

West Contra Costa Healthcare District Doctors Medical Center Governing Body Board of Directors

Wednesday, July 24th, 2013
4:30 PM
Doctors Medical Center Auditorium
2000 Vale Road
San Pablo, CA



WEST CONTRA COSTA HEALTHCARE DISTRICT DOCTORS MEDICAL CENTER

GOVERNING BODY BOARD OF DIRECTORS

WCCHD DOCTORS MEDICAL CENTER GOVERNING BODY BOARD OF DIRECTORS JULY 24, 2013 – 4:30 P.M. Doctors Medical Center - Auditorium 2000 Vale Road San Pablo, CA 94806

d. ACTION:

Governing Body Members
Eric Zell, Chair
Supervisor John Gioia, Vice Chair
Irma Anderson
Wendel Brunner, M.D.
Deborah Campbell
Nancy Casazza
Sharon Drager, M.D.
Pat Godley
Richard Stern, M.D.
William Walker, M.D.
Beverly Wallace

AGENDA

1. CALL TO ORDER E. Zell 2. ROLL CALL 3. APPROVAL OF MINUTES OF JUNE 26, 2013 E. Zell 4. PUBLIC COMMENTS E. Zell [At this time persons in the audience may speak on any items not on the agenda and any other matter within the jurisdiction of the of the Governing Body] 5. FINANCIALS – JUNE 2013 J. Boatman a. Presentation b. Discussion c. Public Comment d. ACTION: Acceptance of the June 2013 Financials 6. QUALITY MANAGEMENT REPORT B. Ellerston a. Presentation b. Discussion c. Public Comment

Acceptance of Quality Management Report

7. PATIENT SATISFACTION REPORT AND WORK UNIT PRESENTATIONS

B. Redlo

- a. Presentation
- b. Discussion
- c. Public Comment
- d. ACTION: For Information Only

8. CAPITAL APPROVAL REQUEST: PROVATION MEDICAL, INC. J. Boatman

- a. Presentation
- b. Discussion
- c. Public Comment
- d. ACTION: Approval of the Capital Purchase Request for ProVation Medical Inc. Software

9. PROFESSIONAL SERVICES CONTRACT – G.I. SERVICES

D. Gideon

- a. Presentation
- b. Discussion
- c. Public Comment
- d. ACTION: Approval of the Contract Terms for Northern California Gastroenterology Associates

10. CEO REPORT

D. Gideon

- a. Discussion
- b. Presentation
- c. Public Comment
- d. ACTION: For Information Only

11. MEDICAL EXECUTIVE REPORT

L. Hodgson, M.D.

- a. Presentation
- b. Discussion
- c. Public Comment
- d. ACTION: Approval of the MEC presented Policies and Procedures, the new Privileges Forms, and the report of the Credentials Committee.

ADJOURN TO CLOSED SESSION

- A. Reports of Medical Staff Audit and Quality Assurance Matters Pursuant to Health and Safety Code Section 32155.
- B. Conference with Labor Negotiators (pursuant to Government Code Section 554957.6) Agency negotiators: Bob Redlo, VP of Patient Relations, Labor Relations & Workforce Development, John Hardy, Vice President of Human Resources: California Nurses Association, NUHW, PEU Local One and Local 39.
- C. Discussion involving Trade Secrets Pursuant to Health and Safety Code Section 32106. Discussion will concern new programs, services, facilities.

ANNOUNCEMENT OF REPORTABLE ACTION(S) TAKEN IN CLOSED SESSION, IF ANY.



MINUTES June 26, 2013

TAB 3



WCCHD DOCTORS MEDICAL CENTER GOVERNING BODY BOARD OF DIRECTORS

June 26, 2013, 4:30 P.M.
Doctors Medical Center - Auditorium
2000 Vale Road
San Pablo, CA 94806

MINUTES

1. CALL TO ORDER

The meeting was called to order at 4:35 P.M.

2. ROLL CALL

Quorum was established and roll was called: 4:35 PM

Present: Eric Zell, Chair

Supervisor John Gioia, Vice Chair

Pat Godley

Deborah Campbell Richard Stern, M.D. Sharon Drager, M.D. Beverly Wallace Irma Anderson

William Walker, M.D.

Excused: Nancy Casazza

Wendel Brunner, M.D.

3. APPROVAL OF MAY 30, 2013 MINUTES

The motion made by Director Beverly Wallace and seconded by William Walker, M.D. to approve the May 30, 2013 minutes passed unanimously.

4. PUBLIC COMMENTS

Tami Roncskevitz, R.N., Maria Sahagun R.N., Charlene Arrington, R.N. and Paulette Jackson, R.N. spoke regarding concerns of proposed management changes with the elimination of the charge nurse and the lack of communication from management on these and other changes. Ms. Roncskevitz also expressed dismay over recent layoff of nurses that are qualified to provide telemetry care. They asked for more communications from management.

Karen Bolden, Case Manager, reported on the low morale of the nurses and case mangers due to lack of communication from management. She agrees with the need to improve patient satisfaction, but without a happy workforce, patient satisfaction will suffer.

Director Deborah Campbell asked all nurses to continue to focus on care for the patient.

5. DOCTORS MEDICAL CENTER SERVICE LEAGUE REPORT

Ms. Pam Moreno, President of the Service League presented an update on recent activities of the League. She reported the "Wish List Program" donates more than \$10,000 in equipment to support patient-centered services annually. Funding from this program is raised through the gift shop proceeds and donations are made based on department requests. For the current fiscal year, the League received an unprecedented number of requests and they have voted to donate more than \$12,000 in equipment to Same Day Surgery, the Cardiac Cath Lab and the Surgery Departments. Items include a specialized wound-prevention mattress and several pieces of equipment for the Operating Rooms.

The Service League held an annual blood drives at the hospital's Towne Center site earlier this month. We exceeded donation goals and the Red Cross was delighted with our outcomes. Due to dwindling wheelchair availability, the Service League Board voted in May to purchase ten more wheelchairs. This will support the experience at DMC for patients, their loved ones, and our own volunteers and staff. The new Service League Officers for 2013 – 2014 were installed earlier this month. They are: President – Pam Moreno, Vice President – Russell Stith, Recording Secretary – Lucille Owens, Corresponding Secretary – Jean Sizemore, Treasurer – Nancy Miller and Program Director – Delores Berg-David. Currently, we have more than 90 active volunteers working throughout the hospital. Combined, the volunteers provide more 1,600 hours of service per month.

6. QUALITY MANAGEMENT REPORT MAY 2013

Ms. Bobbie Ellerston, Chief Nursing Officer, presented and sought acceptance of the May 2013 Quality Management Report. In June, CMS released hospital mortality data for select diagnoses for calendar years 2010 and 2011 for all hospitals nationally. For AMI, DMC's mortality was half the state average, and the best of the 17 hospitals in the region (noted in a recent article in the Times).

Ms Ellerston spoke about DMC in comparison to other Hospitals in the Region (17 Hospitals in Total) for each of the diagnosis. For Percutaneous Coronary Prevention, DMC had the highest risk adjusted mortality rate, although it was within the expected range. For AMI, DMC was identified as "better than expected", with mortality at only 2.7% - the lowest in region with all other hospital above 4%. Heart Failure was in the middle – 9 hospitals had lower risk adjusted mortality, 7 had higher risk adjusted mortality than DMC. Five (5) of the 17 hospitals had higher risk adjusted mortality for Stroke than DMC, and 3 of the 17 hospitals had higher risk adjusted mortality for GI Hemorrhage. Hip Fracture is in the middle, with 7 hospital reporting higher risk adjusted mortality, and 9 reporting lower mortality. Finally, for Pneumonia 3 of the 17 hospitals had a higher risk adjusted mortality than DMC.

A motion made by Sharon Drager, M.D. and seconded by Director Campbell to approve the May 2013 Quality Management Report passed unanimously.

7. FINANCIALS- MAY 2013

Mr. James Boatman, CFO, presented and sought acceptance of the May 2013 Financials. Doctors Medical Center had a Net Loss of \$1,604,000 for the month of May. As a result, net income was worse than budget by \$1,125,000.

Mr. Boatman reported that net patient revenue was under budget by \$1,208,000 for the month. Inpatient gross charges were under budget by 14.8% with patient days and discharges at 22.2% and 18.0% under budget respectively. While total outpatient volume missed the target by 3.4%, ED outpatient visits continue to beat expectations by 5.2% in May. Surgeries were under budget by 13.5% and ancillary volumes were 11.0% under budget.

Mr. Boatman pointed out that Managed Care inpatient volume was 37% under budget, representing \$959,000 in patient revenue. Regular Medicare and Medicare HMO combined was \$1,151,000 or 20% under budget. Regular Medicare patient days and discharges were under budget by 21.2% and 18.1% respectively. Additionally, Medicare reimbursement was reduced by 2% or \$74,000 due to mandatory sequestration.

Mr. Boatman updated everyone that Salaries and Benefits combined were under budget by \$208,000. Salaries were favorable by \$820,000 mainly due to continued flexing in all departments. Benefits were \$612,000 over budget due to consistently higher than budgeted health insurance costs.

Mr. Boatman pointed out that the Supplies were under budget due to the underutilization of pacemakers and implants offset by higher pharmaceutical costs.

As part of the Governing Body education process, Mr. Boatman presented information on DMC costs in supplies and wage and salary compared to other bay area hospitals. DMC compares favorably in all areas.

A motion made by Director Anderson and seconded by Director Campbell to accept the May 2013 Financial report passed unanimously.

8. CAPITAL EXSPENSE REQUEST: Fire Detection and Fuel Tank Storage Removal

Mr. James Boatman, CFO and Mr. Tony Leon, Director of Plant Operations sought approval of a capital expense request; Fire Alarm Project. This project is to be completed in six (6) phases. This is the first of the six, with a cost of \$227,089.00. The remaining, phases are to be completed within an approximate 12 month time frame. This project is driven by the Contra Costa County Fire Department, and this process of repair/upgrade to our current fire alarm system will meet all local, state and federal compliance standards including National Fire Protection Agency (NFPA), The Joint Commission (YJC), California Department of Health Services (CDHS) and the Center for Medicare Medicaid Services (CMS).

A motion made by Director Campbell and seconded by Director Wallace to approve the Fire Alarm Project request passed unanimously.

Mr. James Boatman, CFO and Mr. Tony Leon, Director of Plant Operations sought approval of a capital expense request; Removal of Underground Gas Tank. The removal of the underground gas tank is mandated by Contra Costa County. This contract is the result of multiple bids for the project as outlined and the submitted bid is the least expensive.

A motion made by Director Campbell and seconded by Director Anderson to approve the Removal of Underground Gas Tank request passed unanimously.

9. PHYSICIAN CONTRACT: Clinical Resource Management Medical Director – Dr. Sharon Drager

Dr. Sharon Drager stepped out of the meeting in order for the Governing Body members to review and approve the contract.

Ms. Kathy White, Chief Operating Officer, presented and sought acceptance of the Clinical Resource Management Medical Director contract. Dr. Sharon Drager will provide consulting and administrative services, shall be responsible for the overall supervision of Clinical Resource Management activities, and shall perform the specific duties and responsibilities set forth below. The services provided under this Agreement shall be

limited to administrative and teaching services provided to Hospital and shall not include any professional services to patients or any other services.

A motion made by Director Anderson and seconded by Director Campbell to approve the Physician Contract passed unanimously.

10. CEO REPORT

Ms. Dawn Gideon, Interim president and Chief Executive Officer pointed out that hospital census continues to be low. She also reported that the negotiations of a new contract with CNA will start in the upcoming month as the current contract will expire at the end of June. Accountability will be the key to success for the negations of the new contract.

Ms. Gideon highlighted DMC's continued participation in community activities, and pointed out that Dr. Carson continues to get the media and local attention for his excellence in patient care. Most recently he is being recognized in the media as the "Home Town Hero". She further reported that we have provided over 700 free health screenings to the community in the last month, this is part of the hospital's ongoing efforts to increase DMC's visibility in the community. The June meeting of the Patient Satisfaction Committee was very positive, with the participation of employees from throughout the facility. Within each work unit was have created teams focused on identification and implementation of strategies to improve the patient experience within each of those units. Each unit has two goals: improve the patient's rating of communication and of team work. At future meetings of the Governing Body, Ms. Gideon will invite teams to present their plans as examples of their positive work in improving the patient experience.

11. MEDICAL EXECUTIVE REPORT

Dr. Laurel Hodgson presented and sought approval of the Medical Executive Committee report. She pointed out that there were no new protocols or orders and none presented, and that Medical Staff Bylaws are under development and will be presented to the Governing Body for approval at a future meeting. Finally, she presented the report of the Credentials Committee and asked for Governing Body approval of the report as presented..

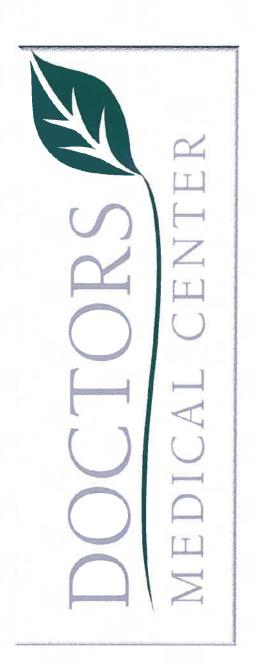
A motion made by William Walker M.D. and seconded by Director Campbell to approve the May Medical Executive Committee report and Credentials Report passed unanimously.

THE MEETING ADJOURNED TO CLOSED SESSION AT 6:15 PM



FINANCIALS June 2013

TAB 5



Board Presentation

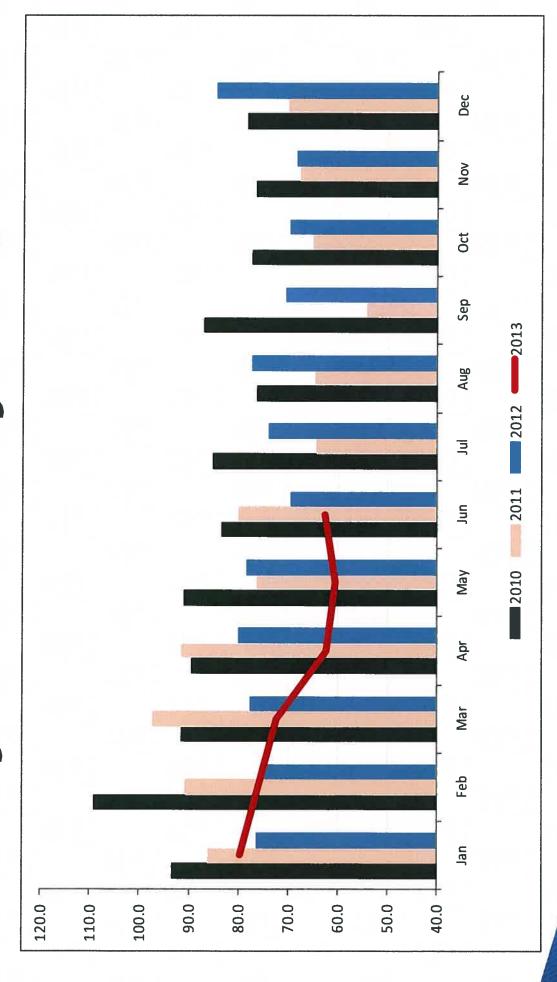
June 2013

Financial Report

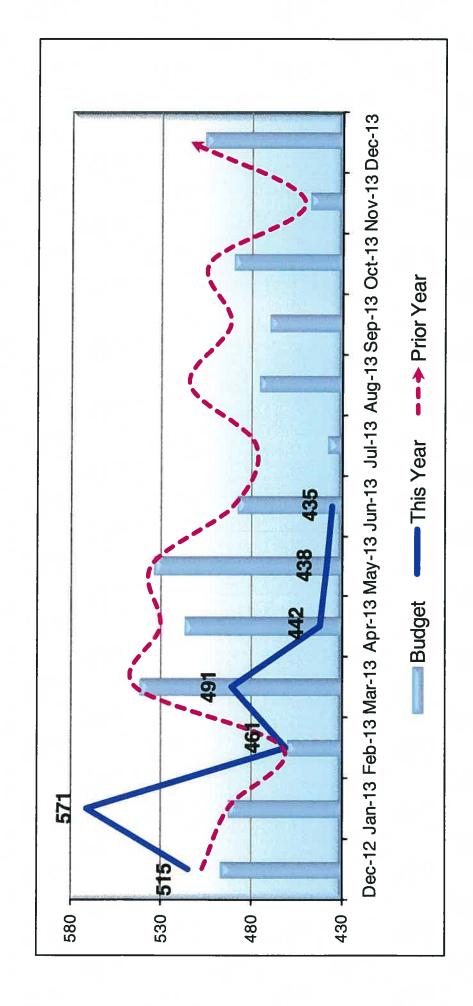
Financial Report Key Points

- > Net loss was \$2M in June, under budget by \$951K.
- > Net patient revenue was \$1.2M under budget.
- > Operating expenses were \$310K under budget.

Average Daily Census Jan-10 thru Jun-13



Inpatient Discharges



Statement of Activity – Summary For the Period Ending June 30, 2013

(Thousands)

	Month to Date	a):			Year to Date	
Actual	Budget	Var		Actual	Budget	Var
8,846	001,01 9	(1,254)	Net Operating Revenues \$	58,476	63,451	(4,975)
11,559	9 11,869	310	Total Operating Expenses \$	71,224	73,254	2,030
(2,713)	(1,769)	(944) Inc	Income/(Loss) from Operations \$	(12,748)	(6,803)	(2,945)
743	3 750	(2)	Income from Other Sources \$	4,480	4,465	15
(1,970)	(1,019)	(951)	Net Income / (Loss) \$	(8,268)	(5,338)	(2,930)

1,877	2,070	(193)	Patient Days	12,465	13,884	(1,419)
435	488	(23)	Discharges	2,838	3,033	(195)
5,952	5,963	(11)	Outpatient Visits	36,876	37,441	(262)
545	643	100	Worked FTE's	584	626	42
1.58	1.55	0.03	Medicare CMI	1.57	1.55	0.02

Budget Variances - Net Revenue

- ➤ Commercial / PPO / HMO -
- (\$ 724K)
- Medicare / Medicare HMO -

2% Sequestration – (\$79K)

(\$ 413K)

Budget Variances – Expenses

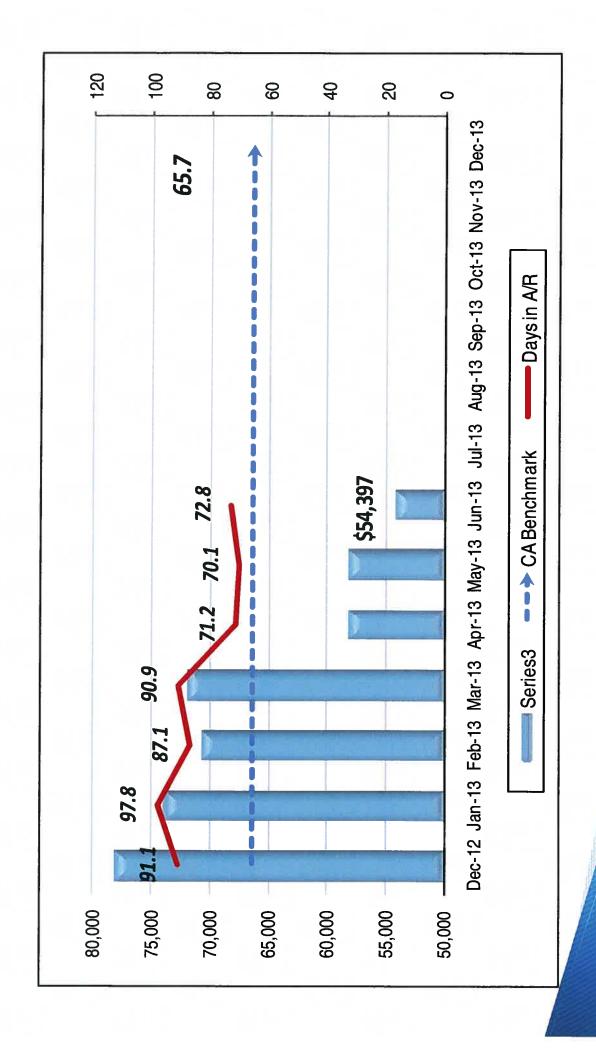
- > Salaries & Benefits \$403K Effective flexing primarily in nursing staff offset by higher health insurance costs.
- > Professional Fees (\$53K) Higher physician and hospitalist
- > Purchased Services (\$198K) Expenses related to Revenue Cycle project, overlap in the change of vendors for equipment repair contract.

Cash Position June 30, 2013 (Thousands)

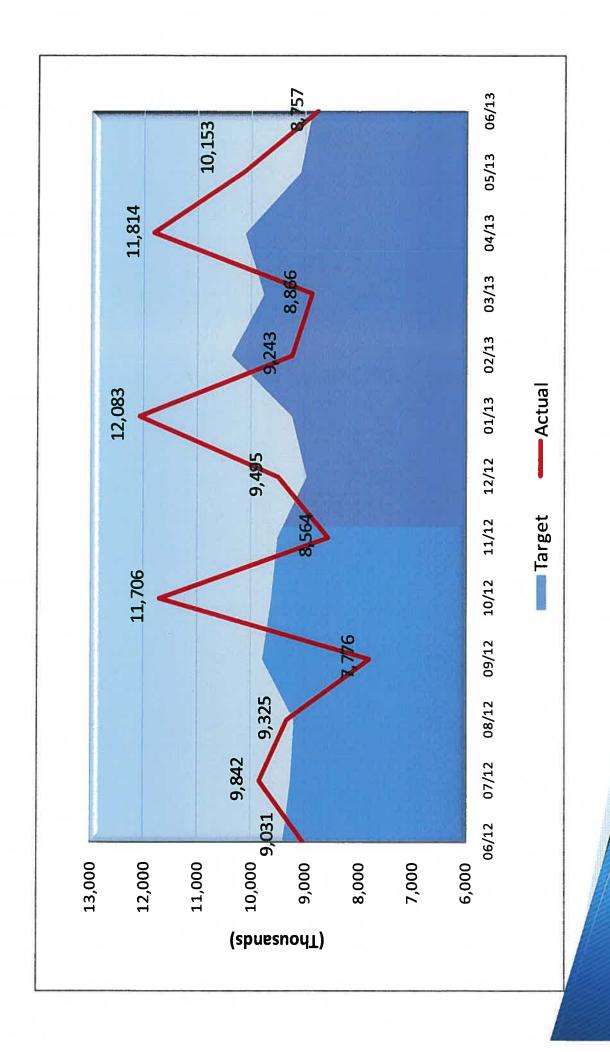
	June 30, 2013	December 31, 2012
Unrestricted Cash	\$1,960	650,5\$
Restricted Cash	\$11,599	\$11,612
Total Cash	\$13,559	129'91\$
Days Unrestricted Cash	5	11
Days Restricted	32	27
Total Days of Cash	37	39

California Benchmark Average	34
Fop 25%	82
Top 10%	183

Net Days in A/R



Cash Collections



Capital Budget 2013

Listed Equipment Emergency Funds Total Capital Budget:

Commited To Date:

Remaining Capital

\$1,493,000 507,000 \$2,000,000

\$1,114,000

\$886,000

WEST CONTRA COSTA HEALTHCARE DISTRICT DOCTORS MEDICAL CENTER INCOME STATEMENT June 30, 2013 (Amounts in Thousands)

PRIOR YEAR ACTUAL	59,740	61,327	24 93	15,650	5,810	8,610	4,954	1,501	2,362	1,871	72,693	(11,366)		1,200	4,248	181	(1,882)	3,747	(7,619)	(610,1)		-18.5%	-12.4%
VAR %	-7.6% -28.0%	-7.8%	7 5%	%8.6- -3.8%	-5.5%	1.7%	-0.8%	6.2%	7.4%	10.2%	2.8%	30.0%		%0:0	1.1%	276.9%	-0.3%	0.3%	75%	25			
VAR	(4,757)	(4,975)	2 336	(625)	(312)	133	(42)	107	199	234	2,030	(2,945)		, į	(78)	87	9	15	(0806)	(2)		59.2%	-5.7%
CURRENT YTD BUDGET VAF	62,672	63,451	31.159	16,464	5,702	8,033	5,194	1,736	2,672	2,294	73,254	(6)803)		, ;	6,816	31	(2,382)	4,465	(5.336)	(200,0)		-15.5%	-8.4%
ACTUAL	57,915 561	58,476	28.823	17,089	6,014	7,900	5,236	1,629	2,473	2,060	71,224	(12,748)	S)	. ;	6,738	118	(2,376)	4,480	(8.268)	(2016)		-21.8%	-14.1%
	OPERATING REVENUE Net Patient Service Revenue Other Revenue	Total Operating Revenue	OPERATING EXPENSES Salaries & Wages	Employee Benefits	Professional Fees	Supplies	Purchased Services	Rentals & Leases	Depreciation & Amortization	Other Operating Expenses	Total Operating Expenses	Operating Profit / Loss	NON-OPERATING REVENUES (EXPENSES)	Other Non-Operating Revenue	District Lax Revenue	Investment Income	Less: Interest Expense	Total Net Non-Operating	Income Profit (Loss)	(22-1)	Droffeehiller Daeloe.	Operating Margin %	Profit Margin %
PRIOR YEAR ACTUAL	10,128	10,215	5,482	2,596	826	1,369	1,092	293	403	334	12,527	(2,312)		. 1	80/	159	(202)	360	(1.952)			-22.6%	-19.1%
VAR %	-12.1%	-12.4%	12.1%	-6.7%	-6.2%	3.1%	-25.4%	8.9%	11.9%	9.5%	2.6%	53.4%		0.0% 4 4%	8 :	-5.9%	%0.0	-0.9%	93.3%				
PERIOD	(1,205)	(1,254)	595	(192)	(23)	9	(198)	52	22	37	310	(944)		, 5	(၈၂)	£		6	(951)			75.3%	-12.2%
CURRENT PERIOD BUDGET VAR	9,970 130	10,100	4,931	2,840	869	1,311	778	281	462	396	11,869	(1,769)		, ,	8 : -	10	(336)	750	(1,019)			-17.5%	-10.1%
ACTUAL	8,765 81	8,846	4,336	3,032	922	1,271	926	256	407	329	11,559	(2,713)		, ,	6,1,	o	(386)	743	(1,970)			-30.7%	-22.3%

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WEST CONTRA COSTA HEALTHCARE DISTRICT DOCTORS MEDICAL CENTER INCOME STATEMENT June 30, 2013 (Amounts in Thousands)

PRIOR YEAR	ACTUAL	2,208	3,373	208,917	115,536	44%	2%	12%	10%	16%	%0	*	5%	10%		3,060	3,058	13.879	76.3	4.54	182	4,749	21 554	118	434	574	1,008
	VAR %	-6.2%	-7.1%	-6.6%	%6.6-											-5.9%	-6.4%	-10.2%	-10.2%	4.1%		-5.4%	%5 0	%E.6-	-5.7%	-13.6%	-10.0%
A YTD	VAR	(135)	(238)	(14,376)	(4,991) (19,366)	3%	-1%	-1%	%	-1%	%0	%0	-1%	-1%		(181)	(195)	(1,419)	(7.8)	0.19		(261)	(2 039)	(11)	(22)	(12)	(103)
CURRENT YTD	BUDGET	2,162	3,326	216,836	127,139 343,974	40%	2%	13%	10%	17%	%0	1%	2%	11%		3,050	3,033	13,884	7.97	4.58	181	4.811	22,025	122	473	560	1,033
	ACTUAL	2,297	3,564	202,460	122,148 324,608	43%	4%	12%	12%	16%	%0	1%	5%	10%		2,869	2,838	12,465	68.9	4.39	181	4.550	19,985	110	446	484	930
		SWB / APD SWB / Total Operating Expenses	Total Operating Expenses / APD	VP Gross Charges	O/P Gross Charges Total Gross Charges	Fayor wix (if and OF) Medicare %	Medi-Cal %	Managed Care HMO / PPO %	Medicare HMO %	Medi-Cal HMO %	Commercial %	Worker's Comp %	Other Government %	Self Pay /Charity %	STATISTICS	Admissions	Discharges	Patient Days	Average Daily Census (ADC)	Average Length of Stay (LOS)- Accrual Based	Days in Month	Adjusted Discharges (AD)	Adjusted Patient Days (APD)	Adjusted ADC (AADC)	Inpatient Surgeries	Outpatient Surgeries	Total Surgeries
PRIOR YEAR	ACTUAL	2,416	3,747	32,464	19,576 52,060	44%	2%	12%	10%	16%	%0	1%	2%	10%		477	490	2086	69.5	4.26	8	785	3.343	F	73	112	185
8 - 48 -	VAR %	-1.0%	-3.7%	-8.1%	0.2% 8.8 %											-5.2%	-10.9%	-9.3%	-9.3%	-1.7%		-7.7%	-6.1%	-6.1%	2.6%	-22.3%	-11.6%
PERIOD	VAR	(23) 130.2%	(130)	(2,599)	(2,566)	1%	-1%	%0	3%	%0	%0	%0	%0	-5%		(22)	(23)	(193)	(6.4)	(0.07)		(62)	(509)	E	2	(23)	(21)
CURRENT PERIOD	BUDGET	2,276 65.5%	3,476	32,243	20,936 53,180	40%	2%	13%	10%	17%	%0	1%	2%	11%		477	488	2,070	0.69	4.24	ଛ	802	3,414	114	78	103	181
H H	ACTUAL	2,299	3,607	29,644	20,970 50,614	41%	4%	13%	13%	17%	%0	1%	5%	% 6		452	435	1,877	62.6	4.31	ଚ	743	3,205	107	80	80	160

WEST CONTRA COSTA HEALTHCARE DISTRICT DOCTORS MEDICAL CENTER INCOME STATEMENT June 30, 2013 (Amounts in Thousands)

PRIOR YEAR ACTUAL	18,200 19,144 574 37,918	2,784 15.3% 91.0%	623 723	5.26 6.10	2,772 15,053 3,047	1,482	4.76	3.13	4.56	3.11
VAR %	6.7% -8.9% -13.6%	-3.8%	6.8% 5.1%	-2.8% -4.6%	1.8% 4.0% -2.5%	-1.9%	7.7%	-8.9%	4.2% 3.0%	-7.0%
IT YTD VAR	1,202 (1,691) (76) (565)	(104)	42 37	(0.14)	52 625 (83)	(27)	0.39	(0.29)	0.19	(0.22)
CURRENT YTD BUDGET VAF	17,871 19,010 560 37,441	2,730 15.3% 89.5%	626 726	5.15 5.96	2,846 15,618 3,396	1,415	5.07 1.55	3.27	4.58	3.13
ACTUAL	19,073 17,319 184 36,876	2,626 13.8% 91.5%	584 689	5.29 6.24	2,898 16,242 3,312	1,442	4.68 1.57	2.98	4.39	2.91
	ED Outpatient Visits Ancillary Outpatient Visits Outpatient Surgeries Total Outpatlent Visits	Emergency Room Admits % of Total E/R Visits % of Acute Admissions	Worked FTE Paid FTE	Worked FTE / AADC Paid FTE / AADC	Net Patient Revenue / APD I/P Charges / Patient Days O/P Charges / Visit	Salary Expense / APD	Medicare LOS - Discharged Based Medicare CMI	Medicare CMI Adjusted LOS	Total LOS - Discharged Based Total CMI	Total CMI Adjusted LOS
PRIOR YEAR ACTUAL	3019 2987 112 6,118	439 14.5% 92.0%	613 734	5.50 6.58	3,030 15,572 3,200	1,640	4.60 1.48	3.11	4.26 1.48	2.88
VAR %	1.0% -0.6% -22.3% -0.2%	-3.3%	15.6% 13.2%	10.1% 7.5%	-6.3% 1.4% 0.3%	6.3%	4.4%	2.7%	-1.7% 3.6%	-1.8%
PERIOD VAR	29 (17) (23) (11)	(14)	100	0.57	(185) 217 12	6	(0.20)	0.08	(0.07)	(0.05)
CURRENT PERIOD BUDGET VAR	2,943 2,917 103 5,963	427 14.5% 89.5%	643 763	5.65	2,920 15,577 3,511	1,444	4.57 1.55	2.95	4.24 1.48	2.86
ACTUAL	2,972 2,900 80 5,952	413 13.9% 91.4%	542 662	5.08 6.20	2,735 15,793 3,523	1,353	4.77	3.03	4.31	2.81

WEST CONTRA COSTA HEALTHCARE DISTRICT DOCTORS MEDICAL CENTER BALANCE SHEET June 30, 2013 (Amounts in Thousands)

	Current Month	Dec. 31, 2012		Current Month	Dec 31 2012
ASSETS			LIABILITIES		,
Cash	1,960	5,059	96 Current Maturities of Debt Borrowings	1,364	1,613
Net Patient Accounts Receivable	21,716	31,007	97 Accounts Payable and Accrued Expenses	13,546	16,509
Other Receivables	1,247	464	98 Accrued Payroll and Related Liabilities	16,365	17,512
Inventory	1,681	1,731	99 Deferred District Tax Revenue	3,090	3,091
Current Assets With Limited Use	11,599	11,612	100 Estimated Third Party Payor Settlements	1,606	1.868
Prepaid Expenses and Deposits	881	1,621			
TOTAL CURRENT ASSETS	39,084	51,494	101 Total Current Llabilities	35,971	40,593
Assets With Limited Use	642	642	Other Liabilities		
			102 Other Deferred Liabilities	1.364	2 804
Property Plant & Equipment			103 Chapter 9 Bankruptcy		0
Land	12,120	12,120			•
Bldg/Leasehold Improvements	29,433	29,432	Long Term Debt		
Capital Leases	10,926	10,926	104 Notes Payable - Secured	61,201	61,242
Equipment	44,435	43,579	105 Capital Leases	1,238	1,647
CIP	355	860	106 Less Current Portion LTD	-1,364	-1,613
Total Property, Plant & Equipment	97,269	96,917	107 Total Long Term Debt	61,075	61.276
Accumulated Depreciation	-56,329	-53,887			
Net Property, Plant & Equipment	40,940	43,030	108 Total Liabilities	98,410	104,673
4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -	,	•	EQUITY	,	
intangiole Assets	1,423	1,454	109 Retained Earnings	-8,053	6,667
			110 Year to Date Profit / (Loss)	-8,268	-17,720
			111 lotal Equity	-16,321	-8,053
Total Assets	82,089	96,620	112 Total Liabilities & Equity	82,089	96,620
Current Ratio (CA/CL)	1.09	1.27			
Net Working Capital (CA-CL)	3,113	10,901			
Long Term Debt Ratio (LTD/TA)	0.74	0.63			
Long Term Debt to Capital (LTD/(LTD+TE)	1.36	1.15			
Financial Leverage (TA/TE)	-5.0	-12.0			
Quick Ratio	0.66	0.89			
Unrestricted Cash Days	S	=			
Restricted Cash Days	32	27			
Net A/R Days	72.8	92.6			Page 4



June 2013 Executive Report

Doctors Medical Center had a Net Loss of \$1,970,000 for the month of June. As a result, net income was worse than budget by \$951,000. The following are the factors leading to the Net Income variance:

Net Patient Revenue Factors	Positive / (Negative)
Managed Care, Commercial, PPO	(\$724,000)
Medicare / Medicare HMO	(\$413,000)
Expenses	
Salaries & Benefits	\$403,000
Professional Fees	(\$53,000)
Purchased Services	(\$198,000)

Net patient revenue was under budget by \$1,205,000 for June. Inpatient gross charges were under budget by 8.1% with patient days and discharges at 9.3% and 10.9% under budget respectively. While total outpatient volume was on target for June, outpatient surgeries were under budget by 22.3%.

Total Managed Care inpatient volume was 22.0% under budget with outpatient volume down 6.6% representing \$724,000 in patient revenue. Medicare patient days were under budget by 11.4% while discharges were over budget by 15.6%. Additionally, Medicare reimbursement was reduced by 2% or \$79,000 due to mandatory sequestration.

Salaries and Benefits combined were under budget by \$403,000 in June. Salaries were favorable by \$595,000 mainly due to continued flexing in all departments. Benefits were \$192,000 over budget as employee healthcare costs were \$600,000 over budget.

Professional Fees were \$53,000 over budget in June. The contract rate used in the budget along with higher than anticipated volume for the hospitalists' created the variance.

Purchased Services were over budget \$198,000 due to continued analytical support services and the timing of expenses related to the revenue cycle project and software invoicing.



QUALITY REPORT

TAB 6

Quality Management Report

Joint Commission Updates

- 45 Day Evidence of Standards Compliance
- > The hospital manages risks associated with its utility systems.
- > The hospital assesses and manages the patient's pain
- > The hospital assesses and manages the patient's risks for falls

45 Day Evidence of Standards - Cont.

administration of moderate or deep sedation before initiating operative or other high-risk procedures, including those that require the The hospital provides the patient with care or anesthesia

and/or the administration of moderate or deep The hospital provides care to the patient after operative or other high-risk procedures sedation or anesthesia

Joint Commission Updates

- 60 Day Evidence of Standards Compliance
- The hospital implements its infection prevention and control plan
- Medical staff bylaws address self-governance and accountability to the governing body
- services provided by practitioners privileged The organized medical staff oversees the quality of patient care, treatment, and through the medical staff process

60 - Day Evidence of Standards - Cont.

- existing privilege(s), or to revoke an existing information is factored into the decision to privilege prior to or at the time of renewal. > Ongoing professional practice evaluation maintain existing privilege(s), to revise
- > The hospital initiates restraint or seclusion based on an individual order.
- > The hospital maintains complete and accurate medical records for each individual patient.

60 - Day Evidence of Standards -Cont.

- The medical record contains a summary list for each patient who receives continuing ambulatory care services.
- The hospital honors the patient's right to give or withhold informed consent.



PATIENT SATISFACTION REPORT AND WORK UNIT PRESENTATION

TAB 7

Patient Satisfaction Program Update

PATIENT SATISFACTION PROGRAM UPDATE

- ·Patient Satisfaction Board meetings (Committee) quarterly or (every other month) expanded to include co-leads of the PI teams.
- Three Training Modules Developed with the Assistance of Press Ganey
- Unit Based Performance Improvement Teams Established
- Communication Boards Installed
- Employee Recognition Program Initiated

Patient Satisfaction Program Update

•PATIENT EXPERIENCE TRAINING MODULES 1 AND 2 HAVE BEEN COMPLETED,

Module 3 in Progress

Module: 275 attendees, Module 2: 236 attendees

Trainings offered across all shifts and on weekends

Set-up for pre-register established via HealthStream

Unit based performance improvement teams established

•9 multidisciplinary team with representation of frontline and physician leadership

 Teams have selected initiatives to impact overall facility goals to improve communication and teamwork

 Team facilitators/managers will present selected initiatives to peers for educational purposes and to increase teamwork between departments Teams have selected representatives to participate on the Patient Satisfaction Committee



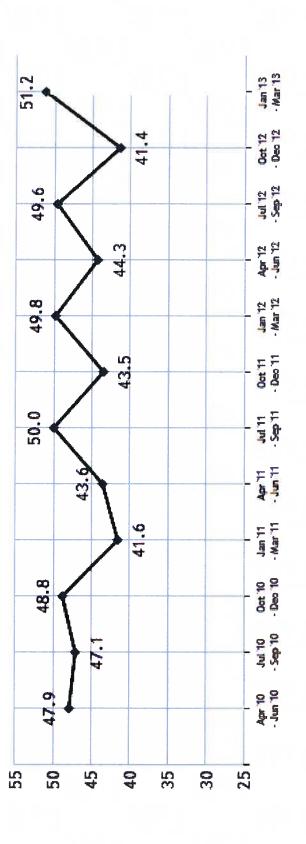
COMMUNICATION BOARDS INSTALLED

- Feedback from frontline staff and leadership regarding communication was used to develop standardized communication boards
- Boards have been installed in all staff lounges/break rooms for easy access
- Hospital Priorities, Patient Satisfaction Scores, Employee Recognition, Hospital Updates and Department PI Initiatives have/will be posted
- Streamlined process for updating board communication has been rolled out through managers/directors

• EMPLOYEE RECOGNITION PROGRAM INITIATED

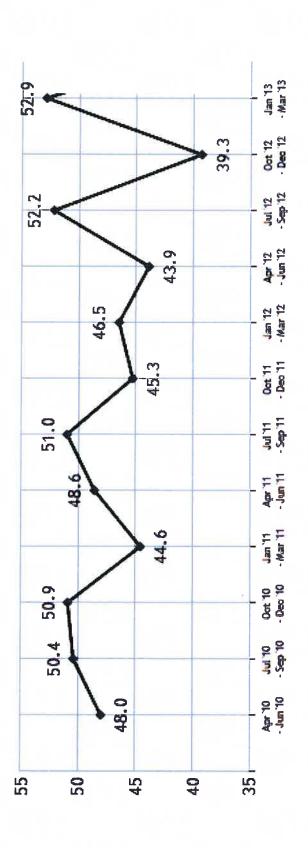
- The employee recognition policy and procedure has been revised, reviewed, approved and distributed
- •Permanent Recognition Committee formed including frontline, management and physician representation
- Program outline was established to honor 1st employee in July 2013
- Announcement of program released house wide on May 6th
- Nomination process to begin May 30th

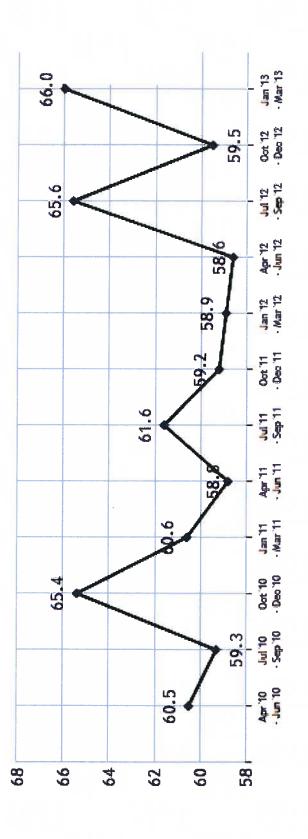




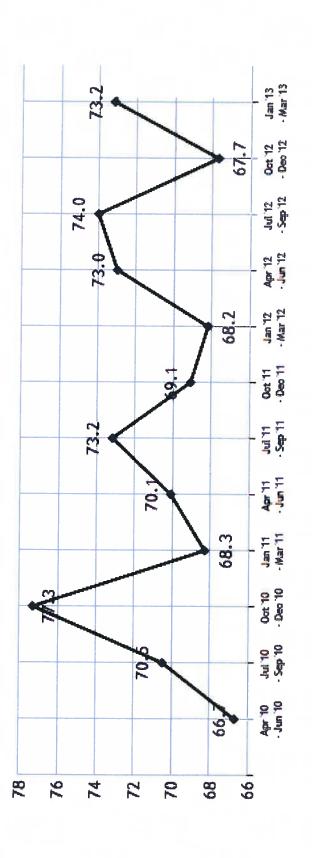
Inpatient

Doctors Medical Center-San Pablo Question - CAHPS - Recommend the hospital

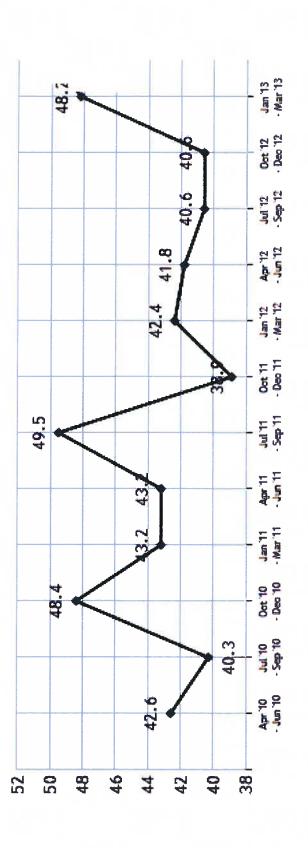




Section - CAHPS - Comm w/ Doctors Doctors Medical Center-San Pablo

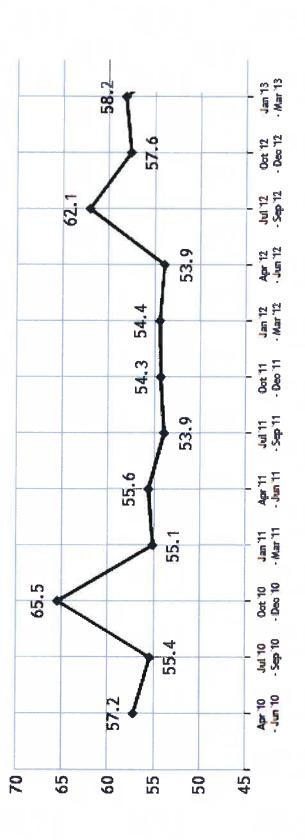


Doctors Medical Center-San Pablo Section - CAHPS - Response of Hosp Staff



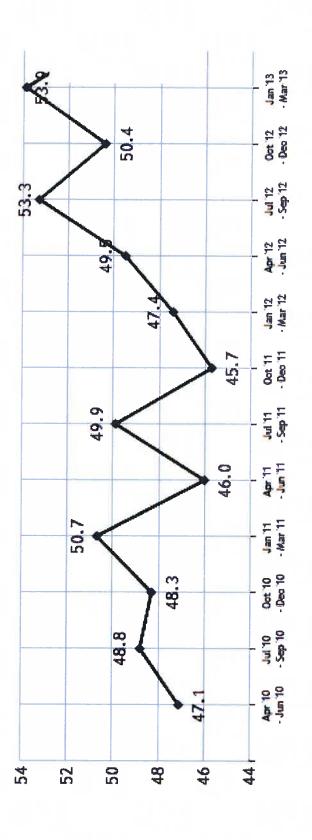
Inpatient

Doctors Medical Center-San Pablo Section - CAHPS - Pain Management

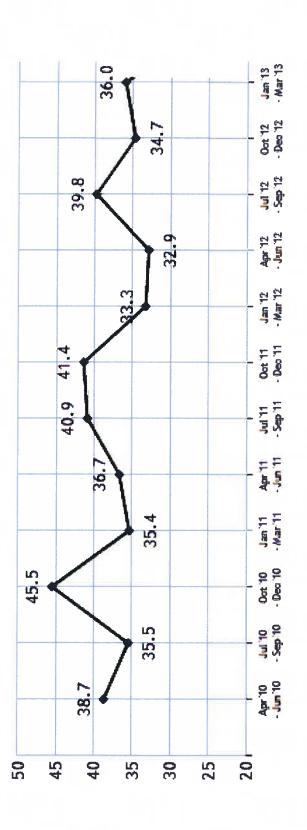


Inpatient

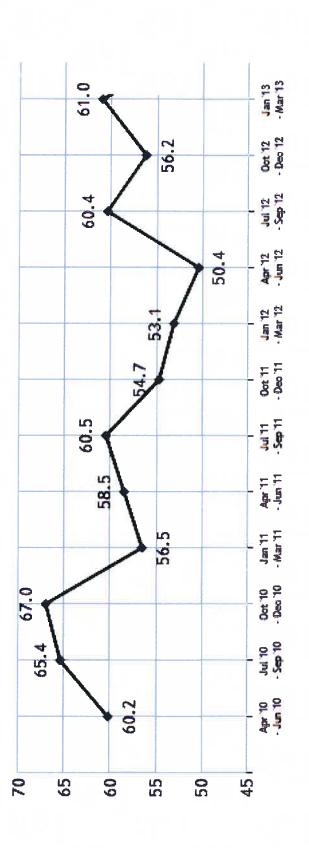
Doctors Medical Center-San Pablo Section - CAHPS - Comm About Medicines



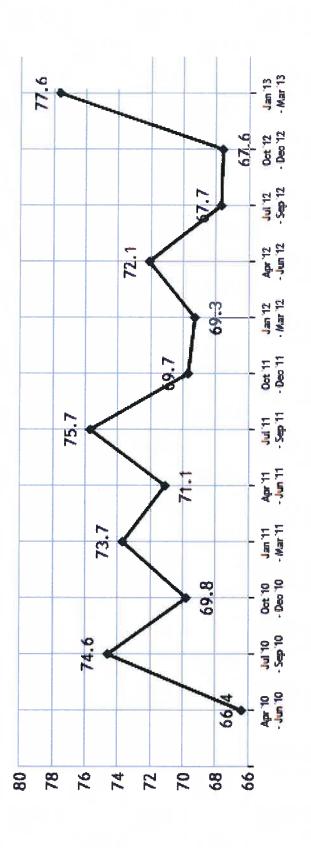








Doctors Medical Center-San Pablo Section - CAHPS - Discharge Information





CAPITAL APPROVAL REQUEST: PROVATION MEDICAL, INC.

TAB 8

WEST CONTRA COSTA HEALTHCARE DISTRICT DOCTORS MEDICAL CENTER GOVERNING BODY BOARD OF DIRECTORS CONTRACT RECOMMENDATION FORM

TO:	GOVERNING BODY BOARD OF F DIRECTO	ORS
FROM:	James Boatman	
DATE:	July 26, 2013	
SUBJECT:	ProVation Medical Inc.	Software
		ecommend to the District Board to approve and authorize the Chief c, approval of the ProVation Contract.
Estimated ann Transcription Revenue Captu FTE reduction		system is \$212,700 with annual ongoing maintenance of \$24,616
and Echo. As the The software w Medical Record	ne physician documents the pro- ill improve coding, and enhance	ware will change the documentation of cases for Cath Lab, GI, EYE cedure it also creates the ICD- 9 or ICD-10 codes needed for billing. e compliance thereby improving workflow in the Cath Lab and nes with data reporting tools for compliance reporting and eliminates s.
software is pro the staff for re current metho	jected to pay for itself in just porting and coding as well as	ON, BACKGROUND AND JUSTIFICATION: The ProVation over one year. It improves documentation and the efficiency of giving physician's tools for education of their patients. Our eporting the results is manual and can lead to under billing for exposed for a RAC audit.
Presentation At	tachments: YesNo	
Requesting Sign	nature:	Date://
SIGNATURE(S	S) :	
Action of Board	d on / / Approved :	as Recommended Other
Vote of Board	Members:	I HEREBY ATTEST THAT THIS IS A
Unanimou Ayes: Absent: _	us (Absent)Noes:Abstain:	TRUE AND CORRECT COPY OF AN ACTION TAKEN AND ENTERED ON THE MINUTES OF THE BOARD ON THE DATE SHOWN
Contact Person:	James Boatman	Attested by:

Cc: Accounts Payable, Contractor, CFO/Controller, Requestor



Wolters Kluwer ProVation Medical

The Power of ProVation:



- ProVation eliminates dictation
- ProVation accelerates revenue capture
- ProVation improves cash flow/reduces A/R days
- ProVation is unsurpassed in physician utilization
- ProVation enhances the quality of procedure documentation and compliance measures (eg. ICD10)

ProVation Solution

ProVation Medical's Cardiovascular solution will integrate with Doctor's Medical Center existing infrastructure (e.g. McKesson, GE MacLab) filling the documentation gap and enabling the following...

Objectives

Elimination of dictation/transcription/manual typing

- Decrease inefficiencies and turnaround challenges
- Enhance workflow
- Improve resourcing

Improve source documentation at the point of care

- Improve basis for coding/ Increased technical revenue
- Enhance compliance

Improve physician satisfaction

- Increase cash flow resulting from faster turnaround time
- Improved basis for coding/ Increase professional revenue

Approach

Built by an in-house staff of more than 40 clinicians and coders, ProVation replaces dictation and allows physicians to efficiently document procedures at the point of care. ProVation software produces complete, coding-ready and image-enhanced documentation that result in greater efficiency, increased profitability and clinician satisfaction. ProVation leads clinicians through the procedure documentation process quickly and automatically with intuitive navigation that drives revenue recovery and offers greater protection against RAC audits by automatically tying procedure documentation to reimbursement coding. ProVation seamlessly interfaces with other IT systems and offers robust data reporting and analysis for Quality Indicators, PQRI, pay-for-performance and other reporting initiatives. Our award-winning customer service, rapid implementation and comprehensive training allow your site to be up and running within 6 months from purchase.

ProVation - Qualitative Benefits - Quality, Compliance, Reporting

ProVation will deliver significant qualitative benefits to physicians impacting key quality, compliance and reporting initiatives.

- <u>Content</u> Deep medical content built and updated quarterly by 40+ ProVation in-house physicians; eliminates need for physicians or hospitals to build and maintain content
- Hemodynamic Integration ProVation pulls hemo data to physicians procedure note
- Diagrams ProVation Docudiagrams® feature allows physicians to create color coded diagrams that automatically generate and populate text and codes within the note
- Navigation Smart navigation features and automatic flags guide physicians to more complete and compliant documentation to support quality and coding appropriateness
- Coding CPT, ICD-9 codes and CCI edits are automatically generated based on physician entries. ProVation's intelligent coding engine knows when additional CPT's are relevant within a complex coding environment. Automatically adds CPT anatomical site modifiers to ensure full payment. 7 full-time certified coders on ProVation staff.
- Time Savings Create a single, complete, and easily retrieved electronic note for each procedure and consequently ProVation prepares referring MD letters, patient letters, CC letters, patient instructions, post-cath orders and coding reports to auto route via email/fax/print to patients, clinicians and your office
- EMR Communication HL7 outbound results interface sends finalized procedure notes to EMR immediately post-procedure
- **Compliance** Mitigate RAC audit risks as ProVation's coding engine generates both professional and technical codes; Route coding reports and procedure notes directly to the office; ProVation prompts physicians to document applicable major co-morbidities
- Data Reporting Structured, discrete database for quality & compliance reporting (e.g. 80+ administrative/MD data reports and ease to use procedure data export tool)
- Service & Support World-class, award winning customer support and service as recognized by the ProVation Medical #1 KLAS Ranking for the 7th consecutive year in the category of "Clinical Procedure Documentation"
- ICD 10 Seamless transition for physicians to ICD 10 as ProVation is busy developing content specificity and the associated codes in ProVation which will reduce physician documentation training and other inefficiencies when the deadline is determined
- Physician Satisfaction Built by physicians for physicians; Easy to use; Best in KLAS solution

Frequently Asked Questions (FAQ)

ProVation Cardiology Cath Module - Key Differentiators

ProVation Cardiology software is a documentation and coding software solution that leads physicians through their procedure documentation quickly. The software prompts the user with all the necessary detail and then automatically generates reimbursement codes.

1) How does ProVation differ in terms of Documentation and Coding?

Clients who select ProVation's physician reporting and coding solution do so for the following unparalleled benefits:

- Content within ProVation is built and maintained by ProVation's team of 40+ physicians and coders, therefore, client's are not heavily burden by this undertaking
- ProVation's anticipatory interface was developed by physicians, for physicians, therefore, ProVation's user interface is highly regarded with exceptional user adoption and satisfaction rates
- Indications, clinical findings, complications, and impressions are inextricably linked to mapped CPT and ICD codes, therefore, highly accurate preliminary codes are generated as the physician denotes findings - the impact on documentation and coding compliance is deemed significant
- Coding and Clinical content are updated by ProVation on a quarterly basis and included in ProVation's solution freeing clients from the burden of dedicating FTE's to maintain their physician's reporting solution
- ProVation delivers world-class, highly responsive customer support to satisfied customers as evidenced by a KLAS 2011 #1 ranking (for the 7th consecutive year) in the category of "Clinical Procedure Documentation"

2) How is content managed and maintained within ProVation?

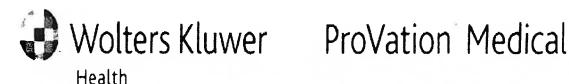
Content within ProVation is built and maintained by ProVation's team of 40+ physicians; therefore, clients are not burdened by this undertaking. ProVation physicians are continuously updating the solution on a regular build cycle. Among items included in the update process are clinical content, functionality, and coding content to name a few. An example of where this process provides added value to clients is evident when registries change their definitions and requirements - ProVation's physicians continuously monitor and update content requirements relieving clients of this burden. This same methodology allows ProVation to be highly responsive to client's needs. To maintain coding compliance, ProVation updates on a quarterly basis.

Health

3) What do ProVation clients perceive as key value adds from incorporating ProVation into their current Cath Lab environment?

The common theme among clients is that their existing workflow does not meet the needs of the physicians, staff and organization. Whether it's missing or untimely documentation, a need for compliance improvement or a suboptimal workflow adversely impacting staff, time, cost, and revenue capture, all are reasons for turning to ProVation. Incorporating ProVation into one's current environment offers the following key value-adds:

- Pre-built medical content and coding built by 40+ physicians and coders, for your physicians to use immediately
- Improved documentation quality driving improved coding compliance
- Reduced costs and reduced staff and resource burden
- Revenue recovery through inextricable linking of ProVation documentation and coding
- Medical content and coding updated on a quarterly basis reducing IT resource burden
- ProVation coding tool ensures clients are ahead of upcoming major coding initiatives (Cath Code bundling and ICD 10 Transition)
- Content already built to document complex interventional and peripheral vascular cases (e.g. anomalous origins, congenital anomalies, jump grafts, collaterals, IVUS, FFR, etc.)
- Discrete data capture in ProVation allows for instant reporting and data export capabilities to improve benchmarking and quality initiatives
- Responsive and world-class implementation, training and support as evidenced by 2012 "Best in KLAS" rating
- Software delivers an immediate return on investment



ProVation - Additional Benefits to Consider

- 1) Compliance Benefits RAC Audits, Documentation supporting codes, "Appropriateness"
- 2) Outpatient Facility/Professional New Revenue and Improved Cash Flow from Reduced Rejections/Denials
- 3) New Facility Outpatient/Professional Revenue from Reduced Lost Charges
- 4) Increased Charting Efficiency
- 5) Professional Cash Flow Improvement from Reduced Days in Accounts Receivable
- 6) Savings in Physician Time (e.g. additional charting/work post-procedure)
- 7) "Appropriateness" Criteria
- 8) ACC Submission Cost & Time Savings and Benefits (ProVation Registry Reporter®)
- 9) Prompts to document Major Co-morbidities (estimated loss of \$6,000/case if not documented)
- 10) Data extraction and reporting capabilities
- 11) ICD 10 Preparedness
- In October 2009, a report conducted by Nachimson Advisors on behalf of the ICD-10 Coalition, a range of organizations including MGMA, the American Academy of Professional Coders and the American Medical Association, sketched out the estimated costs for small, medium and large practices making the ICD-10 conversion. The report found that the costs are higher than what CMS had first projected for the conversion. The estimated costs per practice were:

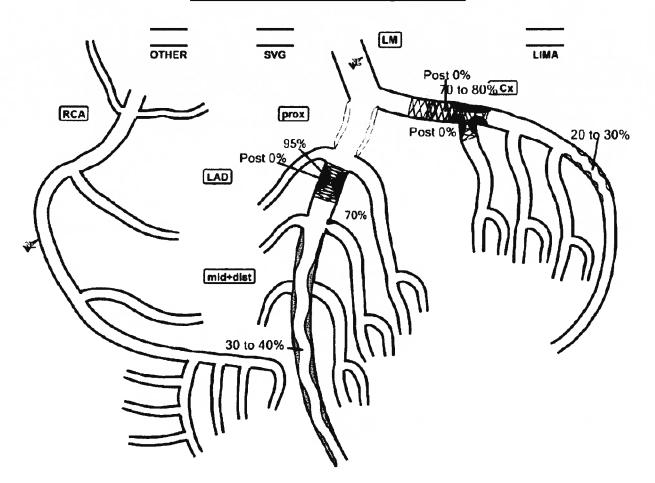
Estimated Costs of ICD-10 Transition By Practice Size

The street of th	PRACTICE SIZE*			
Task	Small	Medium	Large	
Education	\$2,405	\$4,745	\$46,280	
Process Analysis	\$6,900	\$12,000	\$48,000	
Changes to Superbilis	\$2,985	\$9,950	\$99,500	
IT Costs	\$7,500	\$15,000	\$100,000	
Increased Documentation Costs	\$44,000	\$178,500	\$1,785,000	
Cash Flow Disruption	\$19.500	\$65,000	\$650,000	
radi	\$83,290	\$285,185	\$2,728,780	

in strangerspecture.

Wolters Kluwer ProVation Medical

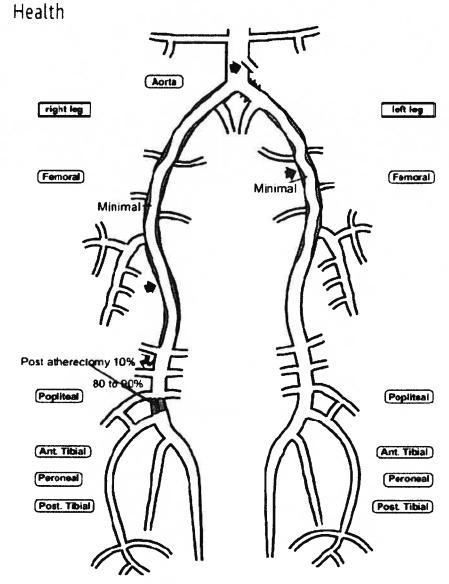
ProVation Docu-diagrams®



ProVation Key Benefits

- Pulls Hemodynamic Data
- Deep Medical Content
- Docu-diagram® Interface
- Drives CPT/ICD Codes
- Ease of Use; MD Satisfaction

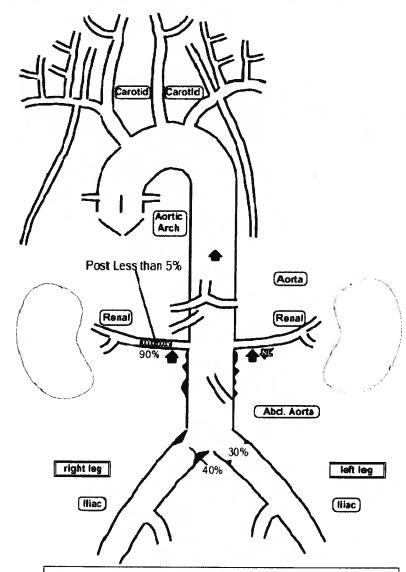




ProVation Key Benefits

- Pulls Hemodynamic Data
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ProVation Key Benefits

- Pulls Hemodynamic Data
- **Deep Medical Content**
- Docu-diagram® Interface
- **Drives CPT/ICD Codes**
- Ease of Use; MD Satisfaction

ProVation Medical • 800 Washington Ave. N. • Minneapolis, MN 55401 • 888-952-6673 Michael DeRosier • 612-418-9797 • michael.derosier@provationmedical.com • www.provationmedical.com

ProVation Medical, Inc. Software License and Maintenance Agreement

EFFECTIVE DATE:	EFFECTIVE DATE:		
-----------------	-----------------	--	--

BETWEEN:

ProVation Medical, Inc., a Delaware Corporation ("ProVation") and

("Licensee")

Doctors Medical Center 2000 Vale Road San Pablo, CA 94806

Contact: Phone: Email:

- Grant of License. Licensee hereby purchases from ProVation, and ProVation grants to Licensee, a non-exclusive, non-transferable and non-assignable license to use the prepackaged ProVation computer software listed on Exhibit A hereto and the associated user documentation (collectively, the "Licensed Software") in accordance with the terms and conditions of this Agreement. The "Licensed Software" also includes any new versions, revisions, updates or upgrades that ProVation furnishes to Licensee under this Agreement.
- 2. Term. The license granted herein will commence upon the Effective Date and will remain in effect in perpetuity unless terminated as provided in Section 8.
- 3. Scope of Permitted Use. Throughout the term of the license, Licensee may use the Licensed Software within the United States of America, in object code form only, solely for Licensee's own internal business purposes at the installation site(s) and in the number of rooms specified in Exhibit B. Licensee shall, in writing, promptly notify ProVation of any change in location of the Licensed Software. Licensee may not use the Licensed Software for any other purpose or to provide data processing services for any third party, including parent, subsidiary, or other affiliate unless specified in Exhibit B however Licensee may permit remote access via a remote access connection by Licensee's employees or contractors whose primary place of employment is specified in Exhibit B and

whom are acting in the course of Licensee's business.

- **Proprietary Expression** and Information. Except as set forth in Section 7, ProVation is the owner of all intellectual property rights in and to the Licensed Software, and the ideas, procedures, processes, systems, methods of operation, and concepts embodied within are trade secret information of ProVation. license is not a sale of a copy and does not render Licensee the owner of a copy of the Licensed Software. Ownership and components and copies thereof will at all times remain with ProVation, regardless of who may be deemed the owner of the tangible media in or on which the Licensed Software may be copied, encoded or otherwise fixed. Current Procedural Terminology ("CPT") is the exclusive registered trademark and copyrighted property of the American Medical Association ("AMA").
- 5. Restrictions on Use. Licensee may make copies of the Licensed Software for Licensee's own use as permitted under this Agreement, including for archival purposes. Any copy must bear the same copyright and other proprietary notices that appear on the copy furnished by ProVation. Licensee will not disassemble, decompile, reverse engineer nor permit any other person to do so. Licensee will prevent unauthorized copying, disclosure or use of ProVation trade secret information, and advise its employees, contractors, and agents permitted access to the Licensed Software of the restrictions in this Agreement as Licensee will

be liable for violation of the above by its employees, contractors or agents.

- **6. Restriction on Transfer.** Licensee will not lease, rent, sell, pledge, assign, sublicense, loan or otherwise transfer any part of the Licensed Software or any copy thereof to a third party without the prior written consent of ProVation.
- 7. Third Party Software. The Licensed Software requires certain third party software ("Third Party Software"), including without limitation certain Oracle® software products (the "Oracle Software") and CPT. Except as provided on Exhibit C, the Third Party Software will be treated as Licensed Software under this Agreement.
- 8. Termination of License. The license granted herein will terminate automatically and immediately if: (a) Licensee violates any of the provisions of Sections 3, 5, 6, or 28 or fails to pay any license fees due and payable hereunder; (b) ProVation notifies Licensee of an election to terminate this license pursuant to Section 26; or (c) Licensee rejects the Licensed Software and returns the Licensed Software to ProVation pursuant to Section 10. In the event of termination of the license for any reason, within fifteen (15) days, Licensee will destroy the Licensed Software and certify to ProVation in writing of such destruction.
- 9. Installation. ProVation will install on Licensee's computer equipment the Licensed Software in Exhibit A however Licensee acknowledges its computer equipment must meet or exceed the minimum requirements set forth on Exhibit D. ProVation will assist Licensee in procuring hardware required to operate the Licensed Software pursuant to separate, mutually agreed terms in the Third Party Product Service Agreement.
- **10. Acceptance.** Each piece of the prepackaged Licensed Software will be deemed accepted upon delivery.
- 11. Professional Services. ProVation agrees to furnish the services in Exhibit A, if any (together with any future purchased services, excluding maintenance services), the "Professional Services"). Licensee agrees to work in good faith toward achieving all Professional Service milestones.

- **12. Purchase of Maintenance.** Licensee hereby purchases and ProVation agrees to furnish maintenance services for the Licensed Software per the terms set forth herein.
- 13. Maintenance Term. The initial maintenance service term for interface Licensed Software will commence upon implementation of such piece of interface Licensed Software; all remaining Licensed Software maintenance services shall commence upon installation. Maintenance services will be in effect for an initial term that will expire on the one-year anniversary date and will automatically renew for successive one (1) year renewal terms until terminated as provided in Section 17.
- 14. Maintenance Services. Throughout the applicable maintenance term. subject to exclusions in Section 15, ProVation will provide the following for the Licensed Software: (a) correct reported failures of the Licensed Software to substantially perform per the Documentation; (b) furnish, at no additional charge new modules which ProVation does not charge a licensee fee, and versions, revisions, content updates, software updates or upgrades to the Licensed Software that ProVation distributes generally to licensees under maintenance (collectively, "Updates"): however, installation, implementation, and other services or out-of-pocket costs in connection with the Updates are not included in maintenance services; and (c) provide telephone support and/or remote access support per the Customer Support Handbook. ProVation's obligation described herein applies only to the current version of the Licensed Software and the immediate prior version and the maintenance services are further described in ProVation's Customer Support Handbook, which may be revised by ProVation, in its reasonable discretion, from time to time.
- 15. Exclusions. Maintenance services do not include: (a) resolution of problems resulting from: (i) modification of or damage to the Licensed Software or its operating environment, (ii) Licensee's failure to operate the Licensed Software in the proper and reliable network, hardware and software environment, (iii) Licensee's failure to operate the Licensed Software in accordance with ProVation's Documentation and/or instructions, or (iv) Licensee's failure to implement any updates, improvements, modifications, patches and/or bug fixes provided by ProVation; (b) new modules in

the Licensed Software for which ProVation establishes a separate license fee; (c) any Updates, if Licensee is in default with respect to payment of maintenance fees; or (d) Professional Services.

- 16. Licensee Duties. Throughout the maintenance term, Licensee will: (a) at Licensee's expense, maintain an approved, secure internet connection, with the ability to resolve DNS to enable ProVation to gain remote access to the computer system(s) on which the Licensed Software is installed for diagnostic, error correction, software downloading, error logging and other maintenance purposes; (b) cooperate with ProVation in identifying the cause of any claimed failure of the Licensed Software to perform as expected; and (c) allow ProVation reasonably free remote and on-site access to the Licensed Software and to Licensee's systems for the purpose of performing maintenance.
- 17. Termination of Maintenance. Either party may terminate maintenance services at the end of the initial term, or end of any renewal term, by written notice to the other party thirty (30) days prior to the end such term. If Licensee's license to use any Licensed Software is terminated for any reason, maintenance services will terminate. If the license termination is for a reason other than Licensee's breach of Sections 3, 5, 6, or 28, ProVation will refund maintenance fees already paid with respect to such Licensed Software beyond the effective date of termination. ProVation may suspend maintenance services if Licensee fails to pay maintenance fees within sixty (60) days of the date of ProVation invoice.
- 18. License Fees. Licensee will pay ProVation the license fee specified in Exhibit A. Twenty percent (20%) of the license fees will be due upon execution of this Agreement, 30% will be due upon first use in a live clinical setting in which the applicable piece of Licensed Software documents, reports or codes the results of an actual patient procedure (hereinafter "First Productive Use"), 10% 30 days post First Productive Use, 10% 60 days post First Productive Use, 10% 90 days post First Productive Use, 10% 120 days post First Productive Use and the final 10% 150 days post First Productive Use, however in any event all license fees shall be due no later than twelve (12) months from the Agreement Effective Date.
- 19. Professional Services Fees. Licensee will pay ProVation the fees specified in Exhibit A as

- delivered. Such fees are based on the assumption that Licensee will meet its obligations described in Exhibit E. If Licensee fails to meet such obligations Licensee agrees to pay ProVation at ProVation's standard hourly rates for additional time expended by ProVation as a result. Licensee agrees to pay a cancellation fee of \$3,000 and all travel expenses incurred if Professional Services are cancelled by Licensee with less than two weeks notice to ProVation.
- 20. Maintenance Fees. For the initial maintenance term, Licensee will pay ProVation the maintenance fees specified in Exhibit A. Maintenance fees for subsequent renewal terms will be at ProVation's then established rates due annually in advance of the term.
- 21. Expenses. In addition to the Professional Services and maintenance fees, Licensee will pay (or reimburse ProVation for) all travel, lodging, meal and other incidental expenses reasonably incurred by ProVation in connection with furnishing Professional Services and maintenance services.
- 22. Payment Terms. Licensee will pay all undisputed invoiced amounts net thirty (30) from date of invoice. During such thirty (30) days Licensee shall notify ProVation of any disputed items. Licensee will pay or reimburse ProVation for all sales, use, excise and other taxes and governmental charges which ProVation is at any time required to pay or collect in connection with the sale, licensing or furnishing of products or services under this Agreement, excluding taxes based on ProVation's income or if Licensee is sales tax exempt then Licensee shall provide evidence to ProVation of its exemption from state sales tax requirements. Any amount not paid when due may be assessed a late fee of one and one-half percent (11/2%) per month or the highest rate permitted by law, whichever is less, until fully paid in addition to any legal expenses incurred by ProVation to collect fees due hereunder. Placement on the ProVation schedule and commencement of the Professional Services shall not begin until ProVation receives a completed accounting packet which consists of the following: signed Agreement, purchase order covering all fees under the Agreement, initial Licensed Software payment, and Third Party Product Services Agreement, if applicable. With respect to any purchase made under this Agreement, the terms of Licensee purchase orders are void. Any changes in Licensee billing address shall be promptly noticed to ProVation in writing. If Licensee fails to pay any undis-

puted invoice amount within sixty (60) days following the date of the invoice, ProVation may suspend all Professional Services and maintenance services until paid in full.

23. Limited Warranties.

- **23.1 Ownership.** ProVation warrants it is the lawful owner or licensee of the Licensed Software and has the right to grant the license granted herein.
- 23.2 Performance. While current under maintenance services, and provided Licensee is current on all payments owing hereunder, the Licensed Software, when used as permitted under this Agreement (including without limitation equipment that meets the minimum specifications in Exhibit D) and in accordance with both the then current Power User Set Up Guide and the User Manual (collectively "Documentation"), will perform in accordance with the Documentation. Notwithstanding the foregoing, this warranty does not apply to problems resulting from: (i) modification or damage (except caused by ProVation) to the Licensed Software or its operating environment, (ii) Licensee's failure to operate the Licensed Software in the proper hardware and software environment. (iii) Licensee's failure to operate the Licensed Software in accordance with ProVation's Documentation, or (iv) Licensee's failure to implement anv updates. improvements. modifications, patches and/or bug fixes provided by ProVation. Licensee's sole remedy for a breach of ProVation's warranty under this Section will be limited to the performance and/or re-performance of maintenance sufficient to cause the Licensed Software to so perform. In the event ProVation fails in respect of the foregoing sentence, Licensee may make a claim against ProVation for its actual damages up to the amounts set forth in Section 25 (Limitation of Liability).
- 23.2.1 Performance specific to ACC Interface Licensed Software. With respect to the ACC interface Licensed Software reflected in Exhibit A of the Agreement, the warranty in section 23.2 above does not apply, and instead the applicable warranty is that the ACC interface Licensed Software will deliver data to a 3rd party system via a standard HL7 interface. In the event ProVation fails in respect of the foregoing sentence, Licensee may make a claim against ProVation for its actual damages

up to the amounts paid for the ACC Interface Licensed Software reflected in Exhibit A.

- 23.3 Intellectual Property. The Licensed Software does not infringe upon any issued United States patent, copyright or trademark.
- 23.4 Services. The services provided by ProVation hereunder will be performed in a professional manner by personnel appropriately trained in the performance of such services.
- 24. Disclaimer of Warranties. EXCEPT AS EXPRESSLY PROVIDED IN SECTION 23, ALL PRODUCTS AND SERVICES UNDER THIS AGREEMENT ARE **FURNISHED** PROVATION AND ACCEPTED BY LICENSEE "AS IS" AND WITHOUT ANY WARRANTY WHATSOEVER. ALL OTHER WARRANTIES, INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE. TITLE AND/OR NON-INFRINGEMENT ARE SPECIFICALLY **EXCLUDED** AND DISCLAIMED. PROVATION DOES NOT THAT THE PRODUCTS OR WARRANT SERVICES WILL MEET LICENSEE'S REQUIREMENTS OR THAT THE OPERATION OF THE LICENSED SOFTWARE WILL BE UNINTERRUPTED OR **ERROR EXCEPT AS EXPRESSLY PROVIDED ABOVE.** ALL PRODUCTS AND SERVICES ARE PROVIDED WITH ALL FAULT, AND THE ENTIRE RISK AS TO THE QUALITY. PERFORMANCE, ACCURACY, AND EFFORT OF THE LICENSED SOFTWARE IS WITH LICENSEE.
- 25. Limitation of Liability. PROVATION WILL IN NO EVENT BE LIABLE TO LICENSEE OR **PERSON** ANY **OTHER FOR ANY** CONSEQUENTIAL, INCIDENTAL, INDIRECT, SPECIAL. PUNITIVE AND/OR EXEMPLARY INCLUDING DAMAGES. WITHOUT LIMITATION DAMAGES FOR LOST PROFITS. LOST SAVINGS AND/OR LOST DATA, ARISING OUT OF OR RELATING TO THIS AGREEMENT OR ANY PRODUCT SERVICE FURNISHED OR TO BE FURNISHED BY PROVATION UNDER THIS AGREEMENT OR THE USE THEREOF. EVEN IF PROVATION HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH LOSS OR DAMAGE; AND THE AGGREGATE LIABILITY OF PROVATION FOR ANY CLAIMS ARISING OUT OF OR RELATING

TO THIS AGREEMENT OR ANY PRODUCTS OR SERVICES FURNISHED OR TO BE FURNISHED BY PROVATION UNDER THIS AGREEMENT WILL IN NO EVENT EXCEED: (A) FOR CLAIMS ASSERTED DURING THE FIRST TWELVE (12) MONTHS FOLLOWING THE EFFECTIVE DATE, THE AMOUNT PAID BY LICENSEE TO PROVATION UNDER THIS AGREEMENT: OR (B) FOR CLAIMS ASSERTED AFTER TWELVE (12) MONTHS FOLLOWING THE EFFECTIVE DATE, THE **AMOUNT OF THE MAINTENANCE FEES PAID** BY LICENSEE TO PROVATION UNDER THIS AGREEMENT IN THE PRIOR TWELVE (12) MONTHS. THIS LIMITATION OF LIABILITY AND THE DISCLAIMERS SET FORTH IN SECTION 24 ARE INDEPENDENT OF ANY REMEDIES SET FORTH HEREIN. AND WILL SURVIVE AND APPLY EVEN IF SUCH REMEDIES ARE FOUND TO HAVE FAILED OF THEIR ESSENTIAL PURPOSE.

26. Intellectual Property Indemnity. ProVation will indemnify and hold Licensee harmless against costs, expenses and liabilities upon a claim by a third party that the Licensed Software infringes or violates a United States copyright right, provided: (a) Licensee notifies ProVation promptly in writing of a notice of such claim; (b) Licensee cooperates with ProVation in all reasonable respects in connection with the investigation and defense of such claim; (c) ProVation will have sole control of the defense settlement negotiations for its compromise; and (d) Licensee will permit ProVation, at ProVation's option and expense, either to: (i) procure for Licensee the right to continue using the Licensed Software, (ii) replace or modify the same so that it becomes non-infringing; or (iii) terminate Licensee's license as to the affected Licensed Software, accept the return of the affected Licensed Software, and grant to Licensee a pro-rata refund of the license fee paid hereunder for the affected Licensed Software, amortized on a straight-line basis over a three (3) year period. Notwithstanding anything herein to the contrary, ProVation will have no obligation or liability to Licensee under this Section if any otherwise covered claim is based upon: (w) use of the Licensed Software in a manner other than that for which it was furnished by ProVation; (x) any Licensed Software which has been modified by or for Licensee in such a way as to cause it to become infringing; (y) Licensee's failure to implement any Update delivered by ProVation to Licensee that is designed to avoid such claim; or (z) use of the Licensed Software in conjunction with systems, products or components not furnished by ProVation. This Section states ProVation's exclusive liability for infringement or other violation of the intellectual property rights of any third party.

27. ProVation Not Engaged in Practice of Medicine; Indemnity. ProVation does not, nor does it intend to, engage in the performance or delivery of medical or health care services. All products and services provided by ProVation under this Agreement should not, in any case, understood deemed or as recommendation, endorsement, guarantee or warranty of the professional services of any providers who render health care services. The Licensed Software is not intended as a substitute for professional medical judgment in patient diagnosis or treatment.

28. Proprietary Information.

28.1 Proprietary Information. Both parties have and will continue to make available to the other confidential and proprietary ("Proprietary materials and information Information"). Except as provided below, all material and information is designated as Proprietary Information. Notwithstanding the foregoing. Proprietary Information does not include information that: (i) is already, or otherwise becomes, generally known by third parties as a result of no act or omission of the receiving party; (ii) subsequent to disclosure hereunder, is lawfully received from a third party having the right to disseminate the information without restriction on disclosure: (iii) is generally furnished to others by the disclosing party without restriction on disclosure; (iv) was already known by the receiving party prior to receiving it from the disclosing party and was not received from a third party in breach of that third party's obligations of confidentiality; (v) is independently developed by the receiving party without the use of Proprietary Information of the disclosing party; or (vi) constitutes Protected Health Information (as that term is defined in the Privacy Regulations), which is subject to Section 31.

28.2 Restrictions on Use and Disclosure. Each party will maintain the confidentiality of the other's Proprietary Information (including this Agreement and Exhibits) and will not use or disclose without the written consent of the other party, except as permitted hereunder.

- Agencies. Neither of the parties' obligations of confidentiality will prevent or prohibit the parties from providing access to Proprietary Information upon request of a state or federal regulatory agency or authority as may be required by law or judicial or administrative process provided such party complies with the terms of Section 28.5.
- 28.4 Public Disclosures. ProVation will have the right to issue public statements pertaining to the existence of the business relationship between ProVation and Licensee, including the right to the limited use of Licensee's name, logo and other reasonable nonconfidential information in press releases, web pages, advertisements, and other marketing materials. ProVation will not claim Licensee's endorsement of ProVation's products or services without Licensee's prior written consent.
- 28.5 Notification Obligation. If a party receiving Proprietary Information hereunder has knowledge of any unauthorized use or disclosure of the Proprietary Information the receiving party promptly and fully will notify the disclosing party of all facts known to it. In addition, if the receiving party or any of its employees, contractors or agents are requested or required (by oral questions, interrogatories, requests for information or documents in legal proceedings. subpoena, civil investigative demand or other similar process) to disclose any of the Proprietary Information of the disclosing party, the receiving party will not disclose such Proprietary Information without providing the disclosing party with reasonable prior written notice of any such request or requirement so that the disclosing party may seek a protective order or other appropriate remedy and/or waive compliance with the provisions of this Agreement. Notwithstanding the foregoing, the receiving party will exercise its reasonable efforts to preserve the confidentiality of the Proprietary Information including, limitation, by cooperating with the disclosing party to obtain an appropriate protective order or other reliable assurance that confidential treatment will be accorded the Proprietary Information by such tribunal.

29. INTENTIONALLY DELETED.

30. Government Access to Records. The parties agree that the Comptroller General of the United States, the United States Department of Health and Human Services ("HHS") and their

- duly authorized representatives will have, pursuant to 42 CFR § 420.302, upon request, until the expiration of four (4) years after the services under this Agreement are furnished, access to this Agreement and any other contract for the performance of any part of this Agreement, the cost or value of which is \$10,000 or more, between a party and a subcontractor, or any organization related to a party. The Comptroller General of the United States, HHS, and their duly authorized representatives will also have access to the books, documents, and records of a party relating to this Agreement and of any subcontractor, or organization related to a party, which a party contracts with to perform any part of this Agreement and which contract has a cost or value of ten thousand dollars (\$10,000) or Any contract between a party and a subcontractor with a value of ten thousand dollars (\$10,000) or more will contain a provision with language substantially similar to the language of this Section. Notwithstanding the foregoing, nothing contained herein will be deemed to grant a party the right to assign this Agreement or the license granted hereunder, or to subcontract any of the services hereunder. except as expressly set forth herein.
- 31. HIPAA. The parties will comply, to the extent applicable, with Exhibit F. ProVation make no representations or warranty that the Licensed Software shall operate in such as fashion as to permit or ensure Licensee's compliance with HIPAA as a Covered Entity, as defined by HIPAA.
- 32. Non-Waiver. The failure by either party at any time to enforce any of the provisions of this Agreement or any right or remedy available hereunder or at law or in equity, or to exercise any option herein provided, will not constitute a waiver of such provision, right, remedy or option or in any way affect the validity of this Agreement. The waiver of any default by either party will not be deemed a continuing waiver, but will apply solely to the instance to which such waiver is directed.
- 33. Severability. Every provision of this Agreement will be construed, to the extent possible, so as to be valid and enforceable. If any provision of this Agreement so construed is held by a court of competent jurisdiction to be invalid, illegal or otherwise unenforceable, such provision will be deemed severed from this

Agreement, and all other provisions will remain in full force and effect.

34. Notice. All notices and other communications pursuant to this Agreement will be in writing and deemed to have been received: (a) upon delivery if delivered by a courier service; (b) upon transmission if sent via telecopier, with a confirmation copy sent via overnight mail; (c) on the business day following dispatch, if sent by a nationally recognized overnight courier, and (d) on the third business day following mailing, if sent via United States registered or certified mail, return receipt requested, postage pre-paid; in each case addressed to the recipient at the following addresses:

To ProVation:

ProVation Medical, Inc. 800 Washington Avenue North Suite 400 Minneapolis, MN 55401 Attn: Contracts

Fax: (612) 313-1592

To Licensee:

Company Name:	
Company Address:	
Attn:	
Fax:	

35. Dispute Resolution.

35.1 Negotiation. In the event that either party (a "Claiming Party") has a dispute with the other (the "Defending Party") under this Agreement, the Claiming Party will, as promptly as practicable, notify the Defending Party in writing of dispute, specifying with reasonable particularity the issues in dispute and the information known to the Claiming Party that leads it to believe it has or may have a claim against the Defending Party ("Notice of Dispute"). dispute will immediately be referred to senior management of both parties who will meet either in person or by phone within five (5) business days and make a good faith effort to resolve the dispute. If senior management is unable to reach a resolution, both parties will cooperate and give each other such access to such information and materials in their respective possession and control as is requested by the other party and/or is reasonably necessary to investigate and resolve

such dispute. As promptly as is practicable following the Defending Party's receipt of such notice and access to information and materials, the Defending Party will provide to the Claiming Party a written response, specifying with reasonable particularity any areas in which the Defending Party disagrees with the Claiming Party's written notice, and the information known to the Defending Party that supports its position. The parties will continue to share information and access, and cooperate and negotiate to resolve such dispute as promptly as possible. parties cannot reach a resolution within thirty (30) days of the Claiming Party's first delivery of notice of dispute to the Defending Party, or such other time period as the parties mutually agree upon in writing, either party may initiate arbitration of the dispute as provided below.

35.2 Arbitration. Except as set forth below, any controversy or claim arising out of or relating to this Agreement, the breach, termination, or validity thereof, or transactions contemplated herein (including without limitation any claim for indemnification), if not settled by negotiation as provided in the preceding Section, will be settled by private, non-administrative arbitration consistent with the rules of the American Arbitration Association ("AAA") for commercial disputes, by a single arbitrator, who will have experience in the software development and consulting business and with whom neither party has any prior or existing relationship. Additionally, if the dispute concerns the functions or operations of the Licensed Software, the arbitrator will have specific technical proficiency in software. The arbitrator will be mutually agreed to by the parties however, if the parties cannot so agree within 40 days of the Claiming Party's first delivery of notice of dispute to the Defending Party then the matter shall be submitted to an administrative arbitration before the AAA with the fees of the AAA split equally between the parties. The arbitration shall be governed by the United States Arbitration Act, 9 U.S.C. § 1-16, and the award rendered by the arbitrator will be final and binding on the parties and may be entered in any court having jurisdiction thereof. Each party shall bear the cost of its own attorney fees rendered in connection with the arbitration. The arbitrator will not have the authority to award punitive damages, costs or attorneys fees. In disputes related to claims involving: ownership of the Licensed Software or any other ProVation-owned. licensed. operated provided software (including the Licensed Software); or (ii) collection actions for fees,

costs, or charges owed hereunder, ProVation shall have the option to initiate any legal proceedings in state or federal court of its choice, or seek any other available legal remedy. The place of arbitration will be Minneapolis, Minnesota, USA, if arbitration is initiated by Licensee, and within 100 miles of Licensee's address set forth in Section 34 (Notice), if arbitration is initiated by ProVation.

- 35.3 Equitable Relief.

 Notwithstanding anything contained in this Agreement to the contrary, the parties will be entitled to seek injunctive or other equitable relief whenever the facts or circumstances would permit a party to seek such equitable relief in a court of competent jurisdiction.
- 36. Choice of Law. This Agreement will in all respects be governed by and interpreted, construed and enforced in accordance with the laws of the state of Minnesota without respect to its choice of law provisions. The parties agree the Uniform Computer Information Transactions Act, or any version thereof, adopted by any state in any form ("UCITA") will not apply to this Agreement and, to the extent that UCITA is applicable, the parties agree to opt out of the applicability of UCITA pursuant to the opt-out provision(s) contained therein. parties expressly agree that the United Nations Convention on Contracts for the International Sale of Goods does not apply to this Agreement.
- 37. Assignment. Neither party may assign, delegate and/or otherwise transfer this Agreement or its rights and obligations hereunder without the prior written consent of the other; provided, however, that ProVation may assign, delegate, or otherwise transfer this Agreement or any of its rights or obligations hereunder to any person or entity which purchases or otherwise succeeds to substantially all of the assets of ProVation or obtains a right to control ProVation through the acquisition of stock or otherwise.
- 38. Binding Effect; No Third Party Beneficiaries. This Agreement will be binding upon and inure to the benefit of the parties and their respective successors and permitted assigns. With the exception of Oracle®, which is deemed a third party beneficiary hereunder, no third party beneficiaries are intended or will be construed as created by virtue of this Agreement.
- 39. Credentialing. In the event that Licensee requires ProVation to register with a vendor

- credentialing program all fees incurred by ProVation as a result shall be invoiced and reimbursed by Licensee to ProVation. Further, any representations made by ProVation or its employees in such credentialing shall not be deemed as a representation or warranty by ProVation.
- **40. Survival.** Any terms of this Agreement that would, by their nature, survive the expiration or termination of this Agreement will so survive.
- 41. Entire Agreement, Amendment. This Agreement, including Exhibits, which are incorporated herein by reference, sets forth the entire agreement between ProVation and Licensee. Licensee acknowledges that it has not been induced to enter into this Agreement by any representations or statements, oral or written, not expressly contained in this Agreement. This Agreement may only be modified or amended by a writing signed by both parties.
- 42. Future Licensed Software. Licensee shall be entitled to purchase via Addendum to this Agreement a ProVation MD Multi-Specialty Licensed Software package consisting of the following ProVation MD specialties: Pulmonology, General Surgery, Plastics, Orthopedics, Pain Management, ENT and Urology Licensed Software at the pricing set forth below for the same Installation Site(s) and in the same quantities as shown in Exhibit B for ProVation MD for Gastroenterology, any fees not specifically shown below will be at then list price, such pricing shall only be valid if such Addendum is signed on or before December 31, 2014. The associated annual maintenance, travel and Third Party Software and hardware shall be additional and at Licensee's expense.
 - ProVation MD Multi-Specialty (as defined above) Licensed Software fee of \$51,500
 - ProVation MD Multi-Specialty Professional Service (for 15 weeks of physician training) fee of \$28,000
 - ProVation MD Multi-Specialty Interface Professional Service fee of \$10,500
- 43. Expiration. This Agreement shall be null and void if not executed by Licensee and received by ProVation via fax at 612-677-3058 or email at cs-pvm-dl-

contracts@wolterskluwer.com by 5pm CST on July 31, 2013.

IN WITNESS WHEREOF, authorized representatives of the parties have executed this Agreement as of the Effective Date and warranty by signature their authority to bind the above organizations to this Agreement.

PROVATION MEDICAL, INC.
By (Print):
Position:
Signature:
LICENSEE
Name (Print):
Position (Print):
Signature:

EXHIBIT A Fees

All sales are subject to sales tax, if applicable.

Description	Part #	Qty	Li	cense Fee
ProVation MD for Gastroenterology	swgi	1	S	•
ProVation MD for EYE	sweye	1	S	
ProVation MD for Cath Lab	swcath	1	S	44,100
ProVation MD for Echo	swecho	1	S	12,250
HL7 ADT Interface	swifadt	1	S	5.850
HL7 SIU Interface	swifsiu	1	S	5,850
HL7 ORU/PDF Export Interface	swiforu	1	S	5,850
HL7 DFT (Charging) Interface	swifdft	1	S	5,850
Interface from Echo	swiforuecho	1	S	9,000
Hemodynamics Interface (includes test system licensing)	swifhenio	1	S	13,000
TOTAL SOFTWARE FEE			\$	101,750

Description	Part #	Qty	Lic	ense Fee
HL7 NCDR Cath PCI Results	Swiforuacc	'	S	12,000
TOTAL SOFTWARE FEE			\$	12,000

Description	Part #	Mo's		Fee
ProVation MD for GI Maintenance	nıtgi	12	's	2,937
ProVation MD for Eye Maintenance	mteye	12	"S	781
ProVation MD for Cath Lab Maintenance	mtcath	12	rs.	7,319
ProVation MD for Echo Maintenance	mtecho	12	rs.	2,033
HL7 ADT Interface Maintenance	mtadt	12	rs.	1.494
HL7 SIU Interface Maintenance	mtsiu	12	" S	1,494
HL7 ORU/PDF Export Interface Maintenance	nitoru	12	"s	1,494
HL7 DFT Interface Maintenance	mtdft	12	" S	1,494
Interface from Echo Maintenance	nitoruecho	12	rs.	1,494
Hemodynamics Interface Maintenance	nithemo	12	" S	2.157
Telephone Support/ Updates	rolled into fees above			
Updates	rowed into fees above			
TOTAL MAINTENANCE			\$	22,696

Description	Part #	Mo'	s	Fee
HL7 NCDR Cath PCI Results Maintenance	Mtoruacc	12	s	1,920
Telephone Support! Updates	rolled into fees above			
Updates	rolled into fees above			
TOTAL MAINTENANCE			\$	1,920

EXHIBIT A (continued) Fees

Description	Part #		Qty		Fee
interface Services:					
interface imp. ADT	svifadt	•	1	" S	1,336
interface imp. SiU	"svifsiu	•	1	" S	1,336
interface imp. ORU/PDF Export	"sviforu	•	1	۲,	1,336
Interface Imp. DFT	svifdft	•	1	۲,	2,672
Multi-Site / Multi-Specialty Interface Services	"svifn:ulti	•	12	" \$	4,008
Interface from Echo	svifecho	•	1	" S	1,336
Interface Imp. Hemodynamics	svifhemo	•	1	" S	10,000
ProVation MD implementation Services:					
Project Management	svprjmgt s	•	8.0	" S	3,237
Planning Meeting	"svpn:eet	•	4.0	" S	1,618
Software Installation	svdeliv	•	4.0	" \$	1,618
Go-Live Technical Services	"svinstl	•	5.0	" S	2,023
Go-Live Implementation Services	"svin1p	•	16.0	" S	6,474
On-Site Implementation Services - Follow Up Training	"svin1p	•	26.0	" S	10,520
Power User Training	"svputrn	•	5.0	" S	2,023
Software Admin Training	svsatrn		1.0	' S	405
TOTAL SERVICES				\$	49,943

Description	Part #	 Qty	 Fee
Interface Services:			
HL7 NCDR Cath PCI Results Services	Sviforuacc	1	\$ 4,000
TOTAL SERVICES			\$ 4,000

^{*}All travel, meal, lodging and related expenses incurred as a result of Licensee's attendance of training at ProVation's corporate location shall be at Licensee's expense. Up to 3 attendees allowed at Power User Training and 1 attendee at Software Admin Training.

If Interfaces were purchased under this Agreement it only includes the HL7 Licensed Software and professional services required to test and deploy the ProVation component of the proposed Integration. Licensee understands that any applicable or required software and/or services for another vendor's components of the proposed HL7 Integration is not contemplated herein and is the responsibility of Licensee.

as maket a profit light (let) for	THE RESIDENCE	
Description	Part #	Est. Cost
Travel Technical	trvtec	[*] S 4,455
Travel Implementation	trvimp	s 22,795
TOTAL TRAVEL EXPENSE ESTIMATE (for budgeting	\$ 27,250	

TOTAL TRAVEL EXPENSE ESTIMATE (for budgeting purposes*)		\$	5,440	
Travel implementation	trvinip	S	5,440	
Description	Part #	E	Est. Cost	
	A-1	13/4		

[&]quot;Qty" noted above is fixed meaning that even if it takes ProVation more or less time that indicated above the fees shall still remain fixed.

EXHIBIT B Installation Site / Number and Type of Workstations

Installation Site(s):

Doctors Medical Center 2000 Vale Road San Pablo, CA 94806

Number and Type of Procedure Rooms / Workstations:

- 1 ProVation MD for GI Image Capture Procedure Room
- 1 ProVation MD for EYE Procedure Room
- 1 ProVation MD for Cath Lab
- 2 ProVation MD for Echo Labs

EXHIBIT C Third Party Software - Additional Terms

- 1. Escrow. No provision requiring the deposit or placement in escrow of source code materials will apply to Third Party Software.
- 2. Excluded Provisions. The terms and conditions of Sections 23 (Warranties) and 26 (Intellectual Property Indemnity) of the Agreement will not apply to the Third Party Software.
- 3. Additional Oracie Restrictions. In addition to restrictions set forth in the Agreement Licensee may not: a) use except in conjunction with the Licensed Software; b) use for any purpose other than the use as permitted under the Agreement; c) publish any benchmark tests or any other test results run on the Oracle; d) assign, give, rent, lease, timeshare, subscribe, service, host, outsource or transfer Oracle; (e) remove or modify any proprietary notices or transfer title; (f) make available in any manner to any third party.
- 4. TermInation. Licensee's right to use the Third Party Software will terminate if (i) Licensee's license to use the Licensed Software is terminated for any reason, (ii) Oracle requires ProVation to terminate Licensee's license to use the Oracle Software for any reason, (iii) the Oracle Software is no longer included in a supported version of the Licensed Software according to the terms of the Agreement; or (iv) ProVation's license to use any Third Party Software is terminated for any reason.
- 5. CPT Updates. Updates to CPT are dependent upon ProVation's ongoing contractual relations with the AMA.
- 6. Oracle Warranty. The Oracle Software will operate in all material respects as described in the applicable program documentation for one (1) year from delivery (via physical shipment or electronic download) provided any such deficiency from the documentation is reported during the one year warranty period.
- 7. Disciaimer of Warranties. ANY WARRANTY SET FORTH IN THIS EXHIBIT DOES NOT GUARANTEE THAT THE THIRD PARTY SOFTWARE WILL PERFORM ERROR-FREE OR UNINTERRUPTED, OR THAT ALL PROGRAM ERRORS WILL BE CORRECTED. ANY WARRANTY SET FORTH IN THIS EXHIBIT IS EXCLUSIVE AND TAKES THE PLACE OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES OR CONDITIONS, INCLUDING WITHOUT LIMITATION WARRANTIES OR CONDITIONS OF MERCHANTABILITY, SATISFACTORY QUALITY, AND FITNESS FOR A PARTICULAR PURPOSE. THE DISCLAIMERS OF WARRANTY SET FORTH IN THIS AGREEMENT WILL ACCRUE TO THE BENEFIT OF THE AMA AS WELL AS PROVATION.
- 8. Limitation of Liability. The limitations of liability set forth in the Limitation of Liability section of this License Agreement will accrue to the benefit of Oracle as well as ProVation with respect to the Oracle Third Party Software; and the aggregate liability of ProVation and/or Oracle, collectively, with respect to the Oracle Third Party Software, will be absolutely limited to a) correction of error that caused the breach of Oracle warranty set forth above; or; b) if Oracle cannot substantially correct the breach in a commercially reasonable manner, and the Licensee terminates the Oracle license recovery of the fees paid to Oracle for the Oracle Third Party Software. The limitations of liability set forth in the Limitation of Liability section of the License Agreement will accrue to the benefit of the AMA as well as ProVation with respect to the CPT; and the aggregate liability of ProVation with respect to the CPT or will be absolutely limited to one thousand dollars (\$1000). The AMA further states that it's sole responsibility is to make available to ProVation replacement copies of the Editorial Content (content contained in the CPT) if the Editorial Content is not intact; and that AMA disclaims any liability for any consequences due to use, misuse, or interpretation of information contained or not contained in the Editorial Content.
- 9. Export. Licensee agrees that U.S. export control laws and other applicable export and import laws govern its use of the Third Party Software, including technical data. Licensee agrees that neither the Third Party Software nor any direct product thereof will be exported, directly or indirectly, in violation of these laws, or use for any purpose prohibited by these laws including, without limitation, nuclear, chemical, or biological weapons proliferation.
- 10. U.S. Government Rights Restricted. This product includes CPT which is commercial technical data and /or computer data bases and/or commercial computer software and/or commercial computer software documentation, as applicable which were developed exclusively at private expense by the American Medical Association, 515 North State Street, Chicago, IL 60610. U.S. Government rights to use, modify, reproduce, release, perform, display, or disclose these technical data and/or computer data bases and/or commercial computer software and/or commercial computer software documentation are subject to the limited rights restrictions of DFARS 252.227-7015(b)(2) (November 1995) and/or subject to the restrictions of DFARS 237.7202-1(a) (June 1995) and DFARS 227.7202-3(a) (June 1995), as applicable for U.S. Department of Defense procurements and the limited rights restrictions of FAR 52.227-14 (December 2007) and/or subject to the restricted rights provisions of FAR 52.227-14 (December 2007) and FAR 52.227-19 (December 2007), as applicable, and any applicable agency FAR Supplements, for non-Department of Defense Federal procurements.
- 11. Audit. Licensee agrees that, upon thirty (30) days' written notice, Oracle (whom may designate ProVation) may audit Licensee's use and distribution of the Oracle Software, at no cost. Licensee agrees to cooperate with any such audit and provide reasonable assistance and access to information.
- 12. Oracle Third Party Technology. As applicable, third party technology that may be appropriate or necessary for use with some Oracle programs as specified in the program documentation, readme files, notice files, installation details and is licensed under the terms of such third party technology.

EXHIBIT D Hardware and Third Party Software Minimum Specifications Hardware and 3rd Party Software Specifications (v 50-14)

The following information outlines the recommended hardware and 3rd party software needed for a *typical* installation of version 5.0 of ProVation Medical software. These specifications will change based on a number of factors including but not limited to:

Number of annual procedures	Number of concurrent users	
 Number of images stored per procedure 	Annual growth of procedure volume	
 Features being implemented 	Tape back-up methodology/strategy	
 Number of scanned pages per procedure 	Image quality desired	

Servers

<u>Database Server</u>

- ProVation database resides on this server
 - Client must work with ProVation Medical to size the server appropriately
- Windows Server 2008 R1 32 bit or 2008 R2 64 bit
 - o Standard or Enterprise Editions
- Two Multi-Core Processors
 - See Oracle in 3rd Party Software section below for more information regarding Oracle CPU licensing
- 4 GB RAM
- 15K RPM hard drives (SAS recommended)
 - o Refer to ProVation for a drive space estimate
 - o RAID controller
 - RAID 1 or RAID 0 + 1 fault Tolerance implemented
 - RAID 5 is not recommended for the Oracle database because of performance degradation
 - Separate physical drive volume required for backup storage
- 100/1000 Mbps switched Ethernet connection (full duplex)
- Display with 1024 X 768 or greater resolution
- Dual Power Supply for fault tolerance
- Tape Backup Unit w/ backup software (or comparable alternative backup method)
- Uninterruptible Power Supply (UPS)
- Unix/Linux can be used to house the Oracle database
 - Refer to Oracle website for a complete list of supported operating systems
 - Unix and DBA expertise are to be provided entirely by the client
 - o Refer to ProVation Database Requirements paper
- Server must be named using Unicode character support [(A-Z) (a-z) (0-9) and hyphens]
- Antivirus scanning must exclude Oracle database files

Application Server

- ProVation MD client, Oracle client, Oracle Data Provider for .NET 2.0, ProVation MultiCaregiver Website, ProVation MD .NET Web Services, ProVation HL7 Interface services, ProVation DICOM Application, ProVation Video Service and RMAN services.
 - o Client must work with ProVation Medical to size the server appropriately
- Windows Server 2008 R1 32 bit or 2008 R2 64 bit
 - Standard or Enterprise Editions
- Internet Information Services (IIS)
- Microsoft .NET Framework 3.5 SP1 (5.0.150 or lower) or .NET 4.0 (5.0.160 or greater)
- Two Multi-Core Processors
- 4 GB RAM
- Refer to sizing model available from ProVation for an estimate of how much drive space will be needed - Recommend a minimum of 30 GB on the primary partition
- RAID 1 or RAID 5 fault tolerance implemented
- 100/1000 Mbps switched Ethernet connection (full duplex)

- Display with 1024 X 768 or greater resolution
- Dual Power Supply for fault tolerance
- CD/DVD drive (or access to device with DVD drive for installation media)
- Uninterruptible Power Supply (UPS)
- ProVation MD .NET Services can be configured to run under SSL. Client is responsible for obtaining and configuring SSL certificate
- Server cannot be configured as a domain controller
- Server must be named using Unicode character support [(A-Z) (a-z) (0-9) and hyphens]
- Microsoft Media Services (MMS) Add-on component for Streaming Video feature
- Windows Fax Services (add-on component)
 - o Fax modem is required if faxing from the application server
 - Supported fax modems can be found on the Windows Hardware Compatibility list (http://www.windowsservercatalog.com)
- Permissions note: ASPNET (2003), NETWORK SERVICE (2008), IIS_WPG, and IUSR users must have full control of any ProVation application directories and files in the Inetpub\wwwroot root. Check the files themselves and not just the folders.
- Antivirus scanning must exclude locations where ProVation log files are written

ProVation WebView Server

- Feature provides secure access to patient information via external website
- Network requirements:
 - Server must reside on customer network that allows end users to access without using a client VPN connection
 - Static IP address
 - o Firewall must include access from outside, inside, and DMZ
 - o Domain Name Registry
 - o DNS Host
 - SSL Certificate
- Windows Server 2008 32 bit or 2008 R2 64 bit Standard or Enterprise Edition
- SQL Server 2008 Express Edition
- Internet Information Services (IIS)
- Microsoft .NET Framework 3.5 SP1 (5.0.150 or lower) or .NET 4.0 (5.0.160 or greater)
- Single Multi-Core Processor
- 4 GB RAM
- Hard drive sizing—1 GB drive space per 15,000 pages required
 - o Includes all scanned documents, ProVation MD and MultiCaregiver notes
 - Files are encrypted and stored within the server file system
- SAS 10k or better and RAID 1 or RAID 5 fault tolerance implemented
- 100/1000 Mbps switched Ethernet connection (full duplex)
- Display with 1024 X 768 or greater resolution
- Dual Power Supply for fault tolerance
- Uninterruptible Power Supply (UPS)
- Server cannot be configured as a domain controller
- Server cannot be shared with ProVation database or application server
- Server must be named using Unicode character support [(A-Z) (a-z) (0-9) and hyphens]

Test Server (Required for customers with interfaces and/or MultiCaregiver)

- Includes all software and applications residing on Database and Application Server from above
- Client must work with ProVation Medical to size the server appropriately
- Windows Server 2008 R1 32 bit or 2008 R2 64 bit
 - o Standard or Enterprise Editions
- Single Multi-Core Processor (2.6 GHz or better)
- 4 GB RAM
- Drive space should be similar to production database server
- 100 Mbps switched Ethernet connection
- THIS SERVER IS NOT SIZED TO BE USED IN A PRODUCTION ENVIRONMENT.

Workstations/Laptops

ProVation MD: Standard Definition Image Capture Workstation Specifications

- Windows XP Pro 32 bit or Windows 7 Professional/Ultimate 32 or 64 bit
- Microsoft .NET Framework .NET 3.5 SP1 (5.0.150 or lower) or .NET 4.0 (5.0.160 or greater)
- Pentium multi-core processor
- 2 GB RAM
- 20 GB free hard drive space
- Video card capable of 1024 x 768 display at 32-bit color
- dPict Aexeon PCI image capture card for procedure rooms only (standard definition still images)
 - o PCI slot is full height and length
 - o Spare Image Capture card recommended per physical location
- 1 serial port
- 100 Mbps switched Ethernet connection
- 17" or larger monitor (must support 1024 x 768 resolution)
- Internet Explorer 6.0, 7.0, 8.0 or 9.0
- Adobe Acrobat Reader v7.0 or greater

<u>ProVation MD: High Definition Still Image Capture Workstation Specifications (No Streaming Video)</u>

- Windows XP Pro 32 bit or Windows 7 Professional/Ultimate 32 or 64 bit
- Microsoft .NET Framework .NET 3.5 SP1 (5.0.150 or lower) or .NET 4.0 (5.0.160 or greater)
- Pentium multi-core processor
- 4 GB RAM
- 80 GB free hard drive space
- 1 GB graphics card
- Blackmagic Design DeckLink HD Extreme capture board
 - Requires PCIe x4 slot (board can run in 4, 8, or 16 lane PCI Express slot)
 - o Board size is full height/length
 - Accepts SDI high definition and composite standard definition video signals
- 1 serial port
- 100 Mbps switched Ethernet connection
- 20" or larger monitor (must support 1024 x 768 resolution)
- Internet Explorer 6.0, 7.0, 8.0 or 9.0
- Adobe Acrobat Reader v7.0 or greater
- ProVation recommends a "workstation class" device

ProVation MD: Note Documentation Workstation Specifications

- Windows XP Pro 32 bit or Windows 7 Professional/Ultimate 32 or 64 bit
- Microsoft .NET Framework .NET 3.5 SP1 (5.0.150 or lower) or .NET 4.0 (5.0.160 or greater)
- Pentium multi-core processor
- 2 GB RAM
- 20 GB free hard drive space
- Video card capable of 1024 x 768 display at 32-bit color
- 100 Mbps switched Ethernet connection
- 17" or larger monitor (must support 1024 x 768 resolution)
- Internet Explorer 6.0, 7.0, 8.0 or 9.0
- Adobe Acrobat Reader v7.0 or greater
- Windows Fax Services (add-on component)
 - o Only required if not faxing from the application server
 - Fax modem is required if faxing from a dedicated ProVation MD documentation workstation
 - o Supported fax modems can be found on the Windows Hardware Compatibility list (http://www.windowsservercatalog.com).

ProVation MultiCaregiver: Desktop/Laptop Specifications (ProVation MD not supported)

Windows XP Pro 32 bit or Windows 7 Professional/Ultimate 32 or 64 bit

- Internet Explorer 6.0, 7.0, 8.0 or 9.0
- Adobe Acrobat Reader v7.0 or greater- Windows Journal Viewer cannot be used in conjunction with Acrobat Reader
- Pentium D processor or better
- Minimum of 1 USB Port
- 1 serial port (used for interface to vitals monitor)
- 1 GB of RAM
- Display must support 1024 x 768 resolution
- 100 Mbps Ethernet connection

General Security and Power Setting Configurations

ProVation MD

- Power settings disabled (both OS and BIOS) ¹
- Screen savers (of any kind) disabled ²
- Write access to COM1³
- Read/Write/Modify/Delete to C:\Documents and Settings\All Users\Application Data\ProVation Medical (XP) ⁴
- Read/Write/Modify/Delete to C:\ProgramData\ProVation Medical (Win7)
- Read/Write/Modify/Delete to the <Install_drive:\Program Files\ProVation Medical\5.0> directory 5
- Roaming profiles that would revoke any of the above, disabled ⁶
- Windows 7 UAC disabled⁸

ProVation MultiCaregiver

- Internet Explorer 6.0/7.0/8.0/9.0 settings ⁷
 - o Ability to download and run signed ActiveX controls
 - o Check for newer versions of stored pages every visit to the page
 - o No passwords should be saved
 - o Pop-up blockers disabled for ProVation MultiCaregiver website
 - o MultiCaregiver website may need to be added to your firewall rules
 - o PCs should be enabled to sync time with Application Server
- XP: Read/Write/Modify/Delete to C:\Documents and Settings\CurrentUser\Application Data\ProVation Medical⁴
- Win 7: Read/Write/Modify/Delete to C:\Users\CurrentUser\AppData\Roaming\ProVation Medical⁴
- <u>Printers</u>

ProVation MD/MultiCaregiver: Color Network Printer Specifications

- Capable of printing high resolution/photo quality
- 10/100 Base TX Ethernet connection
- 128 MB RAM
- Capable of collating

ProVation MD/MultiCaregiver: Black & White Network Printer Specifications

- 10/100 Base TX Ethernet connection
- >10 ppm

<u>ProVation MultiCaregiver: Label Printer Specifications (required model)</u>

- 300 dpi Thermal Printer
- USB connection
- Required Model Dymo LabelWriter 400 series

Image Capture Cards

Still Image Capture Cards - Windows XP, Win 7

- dPict Aexeon PCI
 - o Most current available image capture card available to new installations
 - o Requires full height/length PCI slot
 - o Board size is 5.00"(length) x 4.20" (height)
 - o Standard definition still images only
- Blackmagic Design DeckLink 4K Extreme capture board
 - o Requires PCIe x4 slot (board can run in 4, 8, or 16 lane PCI Express slot)
 - o Board size is full height/length
 - o Captures standard and high definition stills and video

Legacy Still Image Capture Cards

- Matrox Orion PCI Image Capture Card for procedure rooms only (still images)
 - o Legacy image capture card no longer available for purchase
 - o PCI slot needs to accommodate Board Dimension: 6.9" (L) X 4.5" (H)
 - o Note: The image capture card will typically only fit into minitower computers and not desktop or small form factor PCs
 - o Card requires 2 PCI slots
 - Standard definition video input only
 - Capture card may not function in late model computers due to hardware incompatibilities
 - o Windows XP Pro 32 bit only
- Integral Flashbus MV Pro capture card for procedure rooms only (still images)
 - o Legacy image capture card no longer available for purchase
 - o Standard definition video input only
 - Capture card may not function in late model computers due to hardware incompatibilities
 - o Windows XP Pro 32 bit only
- Integral Flashbus Spectrim Pro
 - Legacy image capture card no longer available for purchase
 - o PCI slot needs to accommodate Board Dimension: 4 3/16" (H) X 5 3/8" (L)
 - o Most current available image capture card available to new installations
 - o Standard definition video input only
 - o Windows XP Pro or 7 Pro/Ultimate 32 bit only
- Blackmagic Design DeckLink HD Extreme 3D capture board
 - o Requires PCIe x4 slot (board can run in 4, 8, or 16 lane PCI Express slot)
 - o Board size is full height/length
 - o Captures standard and high definition stills and video

DICOM Capable Image Capture Devices

- Stryker SDC Pro2
- Stryker SDC HD
 - Stryker DICOM software sold separately. Consult your Stryker rep to verify your device is DICOM enabled
- Linvatec VP1500
 - o Requires Linvatec software version 2.0.1.7 or later
- GE OEC 9800 Series Fluoroscopic C-arm
 - C-arms purchased starting in Jan. 2005 come with DICOM software. Consult your GE sales rep to verify your c-arm has this installed
- Siemens Orbic 3-D Fluoroscopic C-arm
 - o Consult your Siemens rep to verify your device is DICOM enabled.
- *Consult your ProVation technical representative for more specifics to ensure your device is DICOM enabled. ProVation only accepts still DICOM images.

3rd Party Software

Oracle Database Specifications

- Oracle Database Standard Edition version 10.2.0.3/10.2.0.4/11.2.0.1/11.2.0.2
- Named User licensing (check with your ProVation Sales Representative to ensure an accurate count)
- CPU licensing is available for clients where there are more than 100 named-users or it is not possible to get an accurate count of users
- Value Based Pricing is available for large scale virtual environments
- Refer to the ProVation Database Requirements Guide available from ProVation for a more detailed outline of database requirements

Adobe Specifications

Acrobat Standard Edition

- Required for ProVation MCG print spooling and the MCG ORU interface reference pointer
- Required for Pathology Import Utility (one per Pathology Import Utility workstation)
- Required for ProVation MD workstation(s) dedicated to printing entire patient chart
- v9.0 or v10 required
- Required for Production and Test Environments
- Acrobat Reader required for all MultiCaregiver and PVMD workstations

Orion Symphonia Specifications

- Version 3
- HL7 Message Mapper
- Required for HL7 Interfaces
- Must be purchased directly from ProVation

Lead Technologies

- Required for DICOM Enabled Image Capture Devices and Outbound DICOM interface
- Must be purchased directly from ProVation

Nuance Dragon Naturally Speaking Medical v9.5 License

- Licensed per user
- Must be purchased directly from ProVation

PixTools Scanning software

- Required for scanning documents into the ProVation Patient Chart
- Licensed per scanning workstation
- Must be purchased directly from ProVation

Miscellaneous Hardware

- Remote Image Capture Foot Pedal
- Water resistant interior sealed switch
- 30' cord
- Required model = custom made and available only from ProVation Medical
- Used for signalling computer to capture image

Fax Modem

- Fax modem is required on the ProVation application server or a designated ProVation MD documentation workstation
 - NOTE: If fax modem is attached to a PVMD documentation workstation, the Oracle client and Oracle Data Provider for .NET 2.0 are required.
- Supported fax modems can be found on the Windows Hardware Compatibility list (http://www.windowsservercatalog.com)
- Signature Capture Pad
- ProVation MD physician signature capture
 - Two Supported Models -
 - Topaz SignatureGem 4x5 (Z-T-S751-B-R)
 - Connects via serial port
 - Not supported with MultiCaregiver

- Windows XP only
- Topaz SignatureGem 4x5 LCD (T-LBK766SE-BHSB-R)
 - Connects via USB
 - Windows XP, Win 7 supported
- ProVation MultiCaregiver patient consent forms and ProVation MD physician signature capture
 - o Connects via USB
 - Used for capturing electronic patient signatures for consent forms and provider electronic bitmap signatures
 - Required Model Topaz SignatureGem 4x5 LCD (T-LBK766SE-BHSB-R)
- <u>Fluoroscopy/Endoscopic Ultrasound Switchbox</u>
- 2 to 4-way S-Video or Composite switch box
- Includes composite and/or S-Video cables
- May include S-Video-Composite Converters

Scanning Hardware

- ISIS certified scanners are supported
 - Visit https://www.scannerdrivers.com/scannerdrivers/index.asp for complete list of supported scanning hardware
- NOTE: Not all scanners listed on the above website come standard with ISIS drivers. Drivers may be purchased by the customer directly from EMC.
- Consult your ProVation technical representative for an estimate of drive space that will be needed to store scanned documents.

Speech Recognition Hardware

- Microphone
- Philips SpeechMike Pro USB 5276 (Recommended model)
- Includes: professional dictation microphone, a speaker, and a trackball mouse

Remote Connectivity Requirements

- Symmetric up and down bandwidth of at least 256 kbps
- Minimal restrictions; if the ISP allows PPTP tunnelling, this is an indication that they are not highly restrictive

Supported 3rd Party VPNs

- Nortel
- Cisco
- Checkpoint Secure Remote
- Sonic Wall
- Juniper
- Aventail
- Microsoft PPTP VPN

Remote Access Options

- RDP with console option
- GoToAssist
 - Users may go to http://www.provationmedical.com/support.aspx from their browser and follow instructions. This will allow a ProVation Customer Support representative to take remote control of their computer. This tool may be used on pc's and servers, however, the end user is required to initiate the connection

ProVation Event/Error Report Sending and Get Updates Requirements

- High Speed Internet Connectivity
- Ability to resolve DNS
- The ProVation MD software has the ability to send error message logs and upgrade/update
 information automatically via http to ProVation. Message logs are sent to
 https://ugli.provationmedical.com.
- This aids ProVation in proactively identifying and resolving software problems.
- If users are required to connect to the Internet through a Proxy server, this connection must be established before beginning an upgrade/update on your server(s).
- The Get Updates feature allows the customer to retrieve available updates for ProVation via the internet. For this to function, access to https://ugli.provationmedical.com and http://updates.installshield.com are required.
- Email notifications—success and failures of automated nightly database maintenance jobs can be sent via email. Feature requires ability to access 64.247.206.238 on port 25.

Approved Clientless ProVation Software Deployment Solutions

NOTE: Procurement, setup, licensing, and support of Citrix and Terminal Server environments are the sole responsibility of the customer.

Solution	Hardware Requirements	Software Require- ments	Configuration Require- ments	Solution Benefits
Citrix	 Per Citrix hardware requirements ProVation testing has shown memory usage for each instance of ProVation MD to be 300 MB to 350 MB of RAM 	Per Citrix software requirements Also requires Windows Terminal Services (see software requirements below)	Per Citrix configuration requirements	 Full access* low bandwidth option Centralized deployment * Not available for: MultiCaregiver, image capture, document scanning, electronic signature capture using the Topaz signature pad and vitals monitor interface.
Windows Terminal Services	 Per Windows Terminal Services hardware requirements Recommend a separate Windows Terminal Services server 	Software Included w/ Windows 2003/2008 Server Requires 2003/2008 Windows Terminal Services licensing per Microsoft licensing requirements	Requires secure access consistent with cus- tomer's security policy for remote network ac- cess	 Full access* low bandwidth option Centralized deployment * Not available for: MultiCaregiver, image capture, document scanning, electronic signature capture using the Topaz signature pad and vitals monitor interface.

Citrix

ProVation MD has been successfully deployed to customer locations using Citrix versions 5.0, 6.0 and 6.5. Procurement, setup, licensing and support of Citrix environments are the sole responsibility of the customer. Memory usage is approximately 300-350 Mb per user session.

MISC

The ProVation Tech Spec is based on current available hardware from common, commercial vendors (e.g. Dell, HP, IBM). If you have existing hardware that you feel may meet ProVation's hardware requirements for the deployment of the ProVation solution please work with the ProVation technical resource to discuss options.

Refer to your Customer Support Handbook for a more detailed description of the roles and responsibilities of the client for installation, maintenance, and support of hardware and 3rd party software.

For a customized hardware specification please contact the site's ProVation Medical Account Manager at 1-888-952-6673.

Appendix A - Workstations/Laptops: General Configurations

The purpose of this appendix is to provide further information and details related to the Workstations/Laptops: General Configurations recommendations and requirements outlined on page 4 within this document.

1 Power settings disabled (both OS and BIOS)

To ensure the PC does not hibernate due to lack of user interaction, which would interrupt the image capture view and processing during a procedure. Applies only to pc's used for image capture.

² Screen savers (of any kind) disabled

To ensure the PC does not introduce a screensaver due to lack of user interaction, which would interrupt the image capture view and processing during a procedure. Applies only to pc's used for image capture.

3 Write access to COM1

To enable the image capture cable from the scope image processing device to communicate with the ProVation MD image capture PC; sending the image capture signal from the scope button to the ProVation MD image capture PC. Applies only to pc's used for image capture.

⁴ Directory specific access (varies by OS)

ProVation temporarily writes files to these directories during image capture, vitals capture and note generation.

⁵ Read/Write/Modify/Delete to the <Install_drive:\Program Files\ProVation Medical\5.0> directory (ProVation MD client)

This access enables ProVation MD to run properly and to process the quarterly software maintenance updates.

6 Roaming profiles that would revoke any of the above, disabled

This relates to Active Directory whereby roaming files should be disabled to insure the roaming files would not overwrite settings like disabling the screen saver, etc.

⁷ Internet Explorer 6.0/7.0/8.0/9.0 settings

- Ability to download and run signed ActiveX controls · required for the initial installation and ongoing for quarterly software maintenance updates. A quarterly software update could potentially change these files, and if they are not able to download them the application would not work as designed.
- Check for newer versions of stored pages every visit to the page ·· Refreshing the page at each visit helps to
 prevent cached data from a previous screen/page to carry over to a new screen/page (from patient to patient).
- o No passwords should be saved ·· Having access to the ProVation MCG page with just a username allows any user to document erroneous data on any patient under another user's security profile.
- Pop-up blockers disabled for ProVation MCG website ·· When the user closes out a ProVation MCG note a pop up appears within the application. If that pop up is blocked it keeps the note in a locked status. The pop up that comes up closes once the note is unlocked.
- MCG website may need to be added to your firewall rules ·· In the event that the website is blocked the customer may have to edit firewall rules to enable ProVation MCG access.
- o PC's should be enabled to sync time with Application Server · ProVation MCG utilizes date/timestamps within certain parts of the application. Enabling PC/Application server time sync, this ensures accurate and consistent timestamps.

⁸Windows 7 UAC disabled

When running ProVation MD 5.0 on a Windows 7 device turn off UAC by going to Control Panel>Clicking the word Users Accounts> Clicking the word Users Accounts> and then change user account control settings. Turn this off. If this is not turned off when you try to open PVMD you will get an error message when it tries to check for update

EXHIBIT E

Licensee Responsibilities, as applicable:

(1) provide sufficient qualified resources to perform its obligations hereunder (estimate of resources are outlined below in the Implementation Project Resource Grid)

(2) access to facilities

- (3) cooperation as needed to enable ProVation to fulfil its obligations under this Agreement
- (4) without limiting the generality of the foregoing, the following activities:

Implementation Planning

Participate in planning meeting with ProVation representatives

Identify Licensee project team members and communicate roles & responsibilities

Participate in regular conference calls and follow up on action items as needed

Obtain approval of ProVation MultiCaregiver/EHR notes by Medical Records department (if purchased)

Collect ProVation MultiCaregiver/EHR notes work flow paperwork (if purchased)

Utilize Basecamp (web-based project tracking application)

Interface implementation (if purchased)

Receive and review interface specifications

Participate in interface specification review call with ProVation

Sign-off on interface specifications

Design & build test environment

Define test plan and scenarios

Conduct interface testing

Complete necessary interface modifications to system ProVation is interfacing with

Clinical and IS involvement and verification of interface functionality

Deploy interface code to production environment

Technical Preparation

Review ProVation hardware & third party software requirements

Review cabling requirements; Order scope processor cables from scope vendor if applicable

Provide remote access for ProVation support via secure high speed internet connection prior to software installation date

Order hardware & ensure delivery by date that meets timeline (if hardware not ordered through ProVation)

Operating systems installed on server & workstations

Servers installed on network, OS patches and service packs applied

Local administrator account available on servers and workstations prior to software Installation date

Install image capture cards in the ProVation procedure room workstations and travel carts

Workstations installed on network and communicating with server prior to ProVation installation

Fax modem and analog phone line installed prior to software installation if applicable

Access to procedure rooms and equipment including cabling necessary to test image capture during software installation Backup protocol established and ready to be tested at install

Ongoing deployment of ProVation software updates

Third party hardware items available for software installation including but not limited to signature pad, scanners, printers, label printers, Adobe Acrobat, foot pedals, etc.

Trainer and End User Education

Minimum of one full-time equivalent Power User committed at the time of the planning meeting and continuing through such time that end users are able to use the ProVation software independently

Power-User co-trains nurses alongside ProVation staff

Power-User co-trains administrative staff alongside ProVation staff

Power-User co-trains physicians alongside ProVation staff

Power User and Software Administrator attend Power User and Software Administrator classroom training

Ensure end users are informed of on-site ProVation visits and are scheduled and available to work with ProVation staff during such on-site visits

Power User scheduled to be available to work with ProVation staff at all times during on-site visits

Power User is responsible for all ongoing end user training after services in Exhibit E have been delivered including but not limited to training new users and refresher training for existing users as needed. Such additional services can be purchased from ProVation if so desired.

EXHIBIT E - PROVATION MD IMPLEMENTATION PROJECT RESOURCE GRID

Description of Role	*Est % of FTE req. for impl	*Est % of FTE req for ongoing maint	Description of Responsibilities	Description of Requirements
Project Manager	30%	0%	Participate in regularly scheduled project conference calls; complete follow up tasks as needed to ensure customer project tasks are completed on-schedule	Leadership and organizational skills; strong attention to detail; availability to make necessary time commitment during the implementation project; ability to make decisions and coordinate efforts of all team members
Power User	100%	25%	Clinical application expert; 100% availability required during end user training phase to develop and manage and user training plan and to provide training to end users including physicians; 25% long term to assist new physicians and infrequent users and to optimize use of advanced software functions (for Gi implementations 50% availability is required)	time available to work one on one with
Software Administrator	20%	15X	Ongoing software maintenance and in house technical assistance with software updates and technical troubleshooting including integration with associated medical equipment (scopes, cameras, etc.)	Hardware, software and biomedical expertise; troubleshooting skills; available during hours when procedures are scheduled
Physician Champion	5 X		Work with peers to gain buy-in and acceptance. Enforce training requirements and implementation processes as defined by ProVation. Provide physician input regarding workflow decisions.	Leadership skills and well-respected within the organization.
T Resource	20%	5%	Establish and maintain stable, secure environment for software installation and ongoing operation; responsible for hardware, network, operating system, remote support access, and network security including operating system security updates and antivirus protection	General IT expertise in networking, hardware, and operating systems.
IL7 Interface pecialist (if pplicable)	20%	l 5% I	resting, implementation and support of HL7 interfaces	General HL7 interface expertise
IM epresentative	20%	10% i	nto coding/billing workflow; establish feedback	Understanding of current coding and billing procedures; ability to gain buy-in and compliance with new workflow
xecutive Sponsor	5%	5% a	pplicable); participate in executive review	Authority to allocate resources; ability to gain support of key constituents such as HIM, physician end users, etc.

EXHIBIT F

BUSINESS ASSOCIATE TERMS

Under the Agreement, as may be amended from time to time in accordance with its terms, ProVation (as "Business Associate") or as applicable, ProVation's agents or subcontracts may have access to Protected Health Information ("PHI") from or on behalf of Covered Entity pursuant to the Agreement ("Covered Entity's PHI"). To the extent applicable, the parties desire to meet their respective obligations under the Health Insurance Portability and Accountability Act of 1996, as amended (the "Act"), including the "HIPAA Rules." The HIPAA Rules shall mean the Privacy, Security, Breach Notification, and Enforcement Rules at 45 CFR Part 160 and Part 164. The HIPAA Privacy Rule is the Standards for Privacy of Individually Identifiable Health Information at 45 CFR, part 160 and part 164, subparts A and E. The HIPAA Security Rule is the HIPAA Security Standards (45 C.F.R. Parts 160 and 164, Subpart C). The HIPAA Breach Notification Rule is the Notification in the Case of Breach of Unsecured Protected Health Information, as set forth in HIPAA.

- Applicability. If Business Associate is performing services on behalf of Covered Entity for which Business
 Associate may create, receive, maintain or transmit PHI in order to perform such services, then consistent
 with the provisions of HIPAA, the parties agree as follows. In these situations, Business Associate may be a
 "Business Associate" as that term is defined in HIPAA.
- 2. <u>Disclosure and/or Use of PHI</u>. Business Associate may disclose and use Covered Entity's PHI as permitted or required by the Agreement or this Business Associate Agreement or as otherwise required or permitted by law. Business Associate further may perform data aggregation services, as that term is defined in the HIPAA rules, and may de-identify information consistent with the HIPAA Rules. Business Associate may further use and disclose the PHI for the proper management and administration of Business Associate's business or to carry out the legal responsibilities of Business Associate, provided that any third party to which Business Associate discloses PHI for management, administration or to carry out legal responsibilities of Business Associate, signs a Business Associate Agreement in advance stating that: (i) the PHI will be held confidentially and used or further disclosed only as required by law; (ii) the PHI will be used only for the purpose for which it was disclosed to the third party; and (iii) the third party promptly will notify Business Associate of any instances of which it becomes aware in which the confidentiality of the PHI has been breached.
- Safeguards Against Misuse of PHI. Business Associate will implement appropriate administrative, physical and technical safeguards to prevent the use or disclosure of Covered Entity's PHI, other than as permitted or required by this Business Associate Agreement.
- 4. <u>Safeguards Related to Electronic PHI ("ePHI")</u>. Business Associate will implement administrative, physical, and technical safeguards that reasonably and appropriately protect the confidentiality, integrity, and availability of Covered Entity's PHI that is ePHI. Business Associate further agrees to comply with the Security Rule requirements forth in 45 C.F.R. §§ 164.308, 164.310, 164.312, 164.314 and 164.316 as of the compliance date for the applicability of these provisions to Business Associate.
- 5. Breach & Reporting of Unauthorized Uses/Disclosures of Unsecured PHI. Business Associate will report to Covered Entity any use or disclosure of Covered Entity's PHI not provided for by the BA Terms. Business Associate further will report to Covered Entity any Security Incident affecting Covered Entity's ePHI of which Business Associate becomes aware. Business Associate will also report to Covered Entity without unreasonable delay, and in no event later than fifteen (15) calendar days after Discovery, any Breach of Unsecured PHI as required by the HIPAA Breach Notification Rule. The notification shall include, to the extent possible and subsequently as the information becomes available, the identification of all Individuals whose Unsecured PHI was, or is reasonably believed to have been, breached and any other available information that the Covered Entity is required to include in notification to Individuals (if known to Business Associate).
- 6. <u>Business Associate's Agents and Subcontractors</u>. Business Associate will enter into a Business Associate Agreement with each of Business Associate's subcontractors and agents who have access to Covered Entity's PHI in connection with the performance of services on behalf of Covered Entity. Business Associate will ensure that these subcontractors and agents agree to be bound by substantially the same restrictions, terms and conditions on the use of PHI and ePHI that apply to Business Associate.
- Availability of Books and Records. Business Associate hereby agrees to make Business Associate's internal practices, books, and records relating to the use and disclosure of Covered Entity's PHI reasonably

- available to the Secretary of Health and Human Services (the "Secretary") upon the Secretary's request for purposes of determining Covered Entity's compliance with HIPAA.
- 8. <u>Mitigation</u>. Business Associate will make commercially reasonable efforts to mitigate, to the extent practicable, any harmful effects known to Business Associate resulting from an unauthorized use or disclosure of Covered Entity's PHI in violation of this Business Associate Agreement.
- 9. Minimum Necessary. In using, disclosing or requesting PHI, Business Associate will make reasonable efforts to utilize a Limited Data Set if practicable or otherwise to use, disclose or request only the minimum amount of PHI necessary to accomplish the purpose of the use, disclosure or request. Business Associate also agrees to implement and follow appropriate minimum necessary policies in the performance of its obligations under this Business Associate Agreement.
- Obligations regarding Individuals' Rights. Business Associate agrees to document and within thirty (30) business days after receiving a written request from Covered Entity, make available to Covered Entity information necessary for Covered Entity or the applicable Covered Entity to make an accounting of disclosures of PHI about an Individual in accordance with 45 C.F.R. 164.528, if any. In addition, to the extent (if any) that Business Associate maintains a Designated Record Set, Business Associate agrees, at Covered Entity's sole cost and expense, to make available PHI in a Designated Record Set necessary for Covered Entity to respond to an Individuals' request for access to their PHI in accordance with 45 C.F.R. 164.524. Further, Business Associate shall to the extent (if any) that Business Associate maintains a Designated Record Set, Business Associate shall make available PHI for amendment and incorporate any amendments or corrections to the PHI as directed by Covered Entity, all in accordance with 45 C.F.R. 164.526. In the event any Individual requests access to PHI directly from Business Associate pursuant to any of the foregoing sections of the Privacy Rule, Business Associate will, within fifteen (15) business days, forward such request to Covered Entity. Any response to such requests or denials of access to or amendment of, an Individual's PHI will be the responsibility of Covered Entity.
- 11. <u>Sale of PHI</u>. Business Associate agrees to not directly or indirectly receive remuneration in exchange for any PHI except where permitted by the HIPAA Privacy Rule.
- 12. <u>Use of PHI for Marketing</u>. Business Associate agrees to not make or cause to be made any communication about a product or service that requires an authorization pursuant to the HIPAA Privacy Rule.
- 13. <u>Use of PHI for Fundraising</u>. Business Associate agrees to not make or cause to be made any written communication for fundraising purposes.
- 14. Covered Entity Obligations. Covered Entity agrees to inform Business Associate in writing of any PHI that is subject to any arrangements permitted or required of Covered Entity under the Privacy Rule that may materially impact in any manner the use and/or disclosure of PHI by Business Associate under this Business Associate Agreement, including, but not limited to, restrictions on the use and/or disclosure of PHI as provided for in 45 C.F.R. 164.522 and agreed to by Covered Entity. Covered Entity shall not request Business Associate to make any use or disclosure of PHI that would not be permitted under HIPAA if made by Covered Entity directly. Covered Entity agrees to fulfill its obligations under this Business Associate Agreement in a timely manner.
- 15. No Third party Beneficiaries. Nothing expressed or implied in this Business Associate Agreement or the Agreement is intended to confer, nor will it confer, upon any person any rights, remedies, obligations or liabilities other than those explicitly detailed in this Business Associate Agreement or in the Agreement.
- 16. <u>Amendment.</u> To the extent applicable, amendments or modification to HIPAA may require amendments to certain provisions of this Business Associate Agreement. Amendments shall only be effective if executed in writing and signed by a duly authorized representative of each party.

17. Termination.

17.1 Notwithstanding any term of the Agreement, if Covered Entity knows of a pattern of activity or practice of Business Associate that constitutes a material breach or violation of this Business Associate Agreement or HIPAA then the Covered Entity shall provide written notice of the breach or violation to Business Associate that specifies the nature of the breach or violation. Business Associate will have thirty (30) business days after its receipt of such written notice to cure the breach or end the violation. In the absence of a cure reasonably satisfactory to Covered Entity within the specified timeframe, or in the event that the breach is reasonably incapable of cure in the mutual agreement

- of the parties, then Covered Entity may terminate this Business Associate Agreement and the Agreement or, if termination of is infeasible, may report the problem to the Secretary.
- 17.2 Upon the later of the termination or expiration of this Business associate Agreement or the Agreement, Business Associate will return or destroy all PHI received from, or created or received by Business Associate on behalf of, Covered Entity that remains in Business Associate's possession or control and will retain no copies of that PHI, or, if the return or destruction is not feasible in Business Associate's determination, extend the protections of the Business Associate Agreement to the retained PHI and limit further uses and disclosures to those purposes that make the return or destruction infeasible.
- 18. <u>Construction of Terms</u>. To the extent that the terms of this Business Associate Agreement are not clear in satisfying the parties' intention to comply with the applicable requirements of the HIPAA Rules, these terms shall be construed so as to allow for compliance by both parties with the applicable requirements of HIPAA.
- 19. <u>Integration</u>. The parties hereby agree that these terms supersede and replace any prior written or oral agreements (if any) between the parties related to the subject matter of this Business Associate Agreement.

In the event any term described herein conflicts with any term of the Agreement, the terms herein shall take precedence as of the last date set forth below.

ProVation Medical, Inc. Third Party Product Services Agreement

This Third Party Product Services Agreement ("Agreement") is effective as of, 201, by and
between ProVation Medical, Inc. ("ProVation"), a Delaware Corporation, and Doctors Medical Center ("Customer").
WHEREAS, ProVation and Customer are parties to a Software License and Maintenance Agreement dated, (the "License Agreement") for certain ProVation software licensed to Customer (the "ProVation Software"); and
WHEREAS, Customer wishes to acquire certain third party hardware and software (collectively, "Third Party Products") to use in connection with the ProVation Software, and while ProVation is neither a manufacturer, reseller or licensed distributor of Third Party Products, ProVation, as a convenience to Customer and to provide certain products to be used in connection with the ProVation Software, agrees to assist Customer in procuring such Third Party Products from Vendor ("Vendor");

NOW, THEREFORE, the parties hereby agree as follows:

- 1. Procurement. ProVation agrees to assist Customer in procuring the Third Party Products described on Exhibit A. Title and risk of loss with respect to each item will pass from the Vendor(s) directly to Customer pursuant to the terms and conditions of the Vendors' contracts. Any future purchases of Third Party Products shall be subject to this Agreement and may require an addendum to this Agreement.
- 2. Returns. If Customer rejects and returns the ProVation Software pursuant to the terms of the License Agreement, then: (a) at the time of such rejection, Customer may request and ProVation will provide assistance in returning the undamaged Third Party Products to the Vendor(s) and obtaining a refund therefore; and (b) if the Vendor(s) is unwilling to accept the return of the Third Party Products, ProVation will purchase undamaged Third Party Products at the price paid by Customer hereunder.
- 3. Payment. The fees for the Third Party Products are set forth in Exhibit A. Customer will pay such fees directly to ProVation as delivered, and ProVation will pay Vendor(s) on Customer's behalf. Customer will pay all invoices issued by ProVation within thirty (30) days of the date of invoice. The terms of any Customer purchase orders are void. Payment terms related to Oracle Support shall be as set forth below. If Customer fails to pay any undisputed invoice within sixty (60) days following the date of the invoice, ProVation will have the right to withhold all Oracle Support and ProVation Software maintenance services under the License Agreement until such time as said fees are paid in full.
- 4. Disclaimer of Warranties. ALL PRODUCTS AND SERVICES UNDER THIS AGREEMENT ARE ACCEPTED BY CUSTOMER "AS IS" WITHOUT ANY WARRANTY WHATSOEVER. ALL OTHER WARRANTIES, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, TITLE AND/OR NON-INFRINGEMENT, ARE SPECIFICALLY EXCLUDED AND DISCLAIMED. PROVATION DOES NOT WARRANT THAT THE PRODUCTS OR SERVICES WILL MEET CUSTOMER'S REQUIREMENTS. PROVATION IS NOT RESPONSIBLE FOR ANY THIRD PARTY PRODUCT WARRANTY GIVEN BY ANY OTHER PARTY.
- Limitation of Liability. PROVATION WILL NOT BE LIABLE TO CUSTOMER OR ANY OTHER PERSON FOR ANY LOST PROFITS, LOST SAVINGS, LOST DATA, OR OTHER SPECIAL, CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING OUT OF OR RELATING TO THIS AGREEMENT OR ANY PRODUCT OR SERVICE FURNISHED OR TO BE FURNISHED UNDER THIS AGREEMENT OR THE USE THEREOF, EVEN IF PROVATION HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH LOSS OR DAMAGE. THE AGGREGATE LIABILITY OF PROVATION UPON ANY CLAIMS ARISING OUT OF OR RELATING TO THIS AGREEMENT OR ANY PRODUCTS OR SERVICES FURNISHED OR TO BE FURNISHED UNDER THIS AGREEMENT WILL BE ABSOLUTELY LIMITED TO THE AMOUNT PAID BY CUSTOMER FOR THIRD PARTY PRODUCTS AS SET FORTH ON EXHIBIT A TO THIS AGREEMENT.
- 6. Government Access to Records. The parties agree that the Comptroller General of the United States, the United States Department of Health and Human Services ("HHS") and their duly authorized representatives will have, pursuant to 42 CFR § 420.302, upon request, until the expiration of four (4) years after the services under this Agreement are furnished, access to this Agreement and any other contract for the performance of any part of this Agreement, the cost or value of which is \$10,000 or more, between a party and a subcontractor, or any organization related to a party. The Comptroller General of the United States, HHS, and their duly authorized representatives will also have access to the books, documents, and records of a party relating to this Agreement and of any subcontractor, or organization related to a party, which a party contracts with to perform any part of this Agreement and which contract has a cost or value of ten thousand dollars (\$10,000) or more. Any contract between a party and a subcontractor with a value of ten thousand dollars (\$10,000) or more will contain a provision with language substantially similar to the language of this paragraph.

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- 7. **Non-Waiver.** No failure by either party at any time to enforce any provision of, or right under, this Agreement will constitute a waiver of such provision or right. Any waiver by either party will not be deemed a waiver of any other provision or right or a continuing waiver of the same provision or right under this Agreement.
- 8. Severability. Every provision of this Agreement will be construed so as to be valid and enforceable. If any provision of this Agreement is held by a court of competent jurisdiction to be invalid, illegal or otherwise unenforceable, such provision will be deemed severed from this Agreement, and all other provisions will remain in full force and effect.
- 9. Choice of Law. This Agreement will in all respects be governed by and interpreted, construed and enforced in accordance with the laws of the state of Minnesota without respect to its choice of law provisions.
- 10. Assignment. ProVation may assign, delegate or otherwise transfer this Agreement or its rights and obligations hereunder to any person or entity. Customer may not assign, delegate or otherwise transfer this Agreement or any of its rights or obligations hereunder without the prior written consent of ProVation.
- 11. Oracle Licensing. Customer hereby wishes to procure Oracle licenses, as shown below, through ProVation. Customer acknowledges that ProVation is assisting Customer in procuring Oracle on Customer's behalf and responsibility for maintaining adequate quantities and types of Oracle licenses remains solely with Customer.
- 12. Oracle® Support. Oracle® support ("Oracle Support"), as reflected herein, is an annual pre-paid fee associated with support of the Oracle licenses purchased hereunder only as applicable to the ProVation Software which includes: (a) furnishing electronically all new major Oracle versions (e.g.10g to 11g) that are furnished by Oracle and supported by ProVation; and (b) telephone support and/or remote access support to assist Customer in its use of Oracle. Oracle Support excludes: a) modification or damages to ProVation Software including the Oracle database schema; b) Customer's failure to operate ProVation Software including Oracle in accordance with the License Agreement; or c) Oracle database services such as, but not limited to archive log mode, performance tuning, and providing/applying Oracle security and patch updates.
- 13. Oracle Support Termination. Oracle Support shall immediately terminate without refund if: a) Customer's license to use Oracle is terminated by Oracle; b) Customer's right to use ProVation Software licensed under separate License Agreement is terminated; or c) Customer fails to pay ProVation the annual Oracle Support fees per the terms herein or fails to pay the maintenance service fee on the ProVation Software per the terms of the License Agreement. In the event Customer does not pay Oracle Support continuously year after year Customer's right to receive Oracle Support terminates permanently and Customer would be required to purchase new Oracle licenses.
- 14. Oracle Support Term. The initial term for Oracle Support commences upon installation and expires on the one-year anniversary date and will automatically thereafter renew for successive one year terms until terminated as provided herein.
- 15. Oracle Support Fees. For the initial Oracle Support term, Customer will pay ProVation the Oracle Support fee specified in Exhibit A. Oracle Support fees for subsequent renewal terms will be at Oracle's then current rate, which ProVation does not set nor have the ability to negotiate on Customer's behalf. Oracle Support fees shall be invoiced and paid by Customer to ProVation annually in advance of each year on such Oracle licenses subject to termination rights as set forth in the Oracle Support Termination section above.
- 16. Virtual Server Oracle Licensing. Any subsequent ProVation Software purchase by Customer under the License Agreement will result in additional Oracle licensing and support fees hereunder which shall be documented via addendum to this Agreement.
- 17. Public Sector. Additionally, the terms set forth in this section apply if Customer is a "public sector end user", which Oracle defines as: (a) a government, legislature or decision making body, judiciary, instrumentality, department, or agency at any level (national, local, municipal or otherwise); entities managed, controlled or majority owned by government interests; public organizations or foundations of any kind (including political parties, political organizations, or political candidates); and any public international organization, such as, but not limited to, the International Red Cross, United Nations, or the World Bank.
 - a) Oracle Support is governed by Oracle's technical support policies in effect at the time Oracle Support services are provided found at http://oracle.com/contracts and Customer hereby a cknowledge such policies are incorporated herein by reference.
 - Any third party firms retained by Customer to provide computer consulting services are independent and Oracle is not liable for nor bound.

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- c) Customer has not relied on future availability of Oracle in entering into this Agreement however, (a) if Customer has purchased annual Oracle Support, this statement does not relieve Oracle of its obligation per Oracle's then current Oracle support policies, and (b) does not change the rights granted under the License Agreement.
- 18. Entire Agreement. This Agreement, including Exhibit A, which is incorporated herein by reference, sets forth the entire agreement and understanding between ProVation and Customer regarding the subject matter hereof and supersedes any prior discussions or agreements regarding the same subject matter. This Agreement may not be modified or amended except by a writing signed by the party against whom the same is sought to be enforced.

PROVATION MEDICAL, INC.	CUSTOMER
By (Print Name) Mark Zimmerman Position: Director of Finance Signature:	By (Print Name): Position: Signature:

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EXHIBIT AThird Party Products

Description	Part #	Qty	Fee	
Virtual Server Oracle Licensing	ORACLEVBP-PVMD "	1	, s	7.397
Annual Oracle Support	ORACLESUPPORT "	1	, s	1,405
Symphonia (Interface Enabling Software)	SYMPHONIA	1	S	1.035
Topaz Signature Pads for E-sign with Bitmap Signatures	Sigpad	1	, s	225
dPict Aexeon PCI Framegrabber (SD Image Capture Card)	10011-001	1	, S	748
Aexeon Extended Cable (SD Image Capture Card Cable)	99018	1	, s	167
GLK - Go Live Kit (Incl Misc Cables & Switchboxes, etc)	GLK	1	* s	300
ubtotal			\$ 1	1.278

Related to HL7 NCDR Cath PCI Results ProVation Software (swiforuacc):

Description	Part #	Qty		Fee
Virtual Server Oracle Licensing	ORACLEVBP-PVMD "	1		873
Annual Oracle Support	ORACLESUPPORT "	1	2	166
Subtotal			\$	1,039

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PROFESSIONAL SERVICES CONTRACT-G.I. SERVICES

TAB 9



TRANSACTION SUMMARY PHYSICIAN TRANSACTIONS AND ARRANGEMENTS

NORTHERN CALIFORNIA GASTROENTEROLOGY ASSOCIATES Contract Effective August 1, 2013

A. Parties

• Identify the physician/group and indicate the specialty/practice area and administrative expertise.

Northern California Gastroenterology Associates (NCGA) for the provision of emergency and inpatient gastroenterology coverage, and Medical Direction.

• Will the arrangement be with the physician as an individual, or with his/her group?

The arrangement is with a group/corporation

B. Purpose/Reasons to Pursue the Arrangement

Describe how the arrangement meets a community need.

The arrangement provides emergency and inpatient consult and procedure coverage on a 24 hour/7 day basis to meet the GI medical needs of the community.

• Indicate whether the arrangement is new or is a renewal of an existing arrangement.

The arrangement is for the renewal of an existing arrangement. Terms have changed from the existing contract.

C. Services to be Provided

• Describe the services to be provided by the physician/group.

NCGA will provide 24/7 physician call coverage for the emergency department and for inpatient consults, medical direction for GI services, and participation in and support for all appropriate quality, compliance and related activities and initiatives of DMC.

• Describe the time commitment of physician/group (e.g., FTE, part-time, # of hours)

NCGA shall provide a sufficient number of qualified Providers to be available to provide services listed under the contract. It is anticipated that this will initially include three physicians, increases to four in the future.

• Describe how the services actually provided will be tracked and documented by hospital management.

For medical director and call coverage services, the DMC approved administrative services and call coverage services schedule and payment forms will be utilized. For inpatient procedures, the DMC approved uncompensated care reimbursement form will be utilized.

D. Financial Terms

• Describe the compensation methodology (hourly fee, monthly or annual salary, etc.). Indicate the aggregate compensation to be paid.

The aggregate compensation is projected to be approximately \$450,000, composed of the following: \$775/diem for emergency call coverage, \$45,000 annually for Medical Director services, and \$350/procedure for care for MediCal and uninsured inpatients. Currently, DMC reimburses two separate groups (NCGA and an Alta Bates based GI group) a total of \$301,125 for coverage, but does not receive the benefit of 24/7 ED coverage as part of those contracts. As a result, we do transfer patients out of the ED and lose the revenue associated with keeping those patients on site. In addition, this is a significant inconvenience to our patients and their families when inpatient admissions are sent to other facilities

• Describe any other benefits payable to, or provided to (space, services, equipment, etc.), the physician.

DMC will provide clinical space in the GI lab to the physicians to necessary to carry out their responsibilities under the contract.

• Describe the methodology for determining that the financial terms meet Fair Market Value requirements.

The Governing Body approved MD Ranger report was used to determine Fair Market Value. In addition, a separate written opinion was obtained from Penny Stroud, President of MD Ranger, regarding the terms and the aggregate payment. Ms. Stroud has determined that the terms do not exceed Fair Market Value.

E. Other Terms

• Indicate whether the arrangement will be structured as an employment or independent contractor relationship.

Independent Contract relationship

• Indicate the term of the arrangement (dates) and describe the termination provisions.

The arrangement is effective August 1, 2013 with a three year term

Indicate insurance coverage arrangements.

NCGA, at its sole cost and expense, shall procure and maintain throughout the entire term of this Agreement, professional liability insurance coverage for services rendered by NCGA in the minimum amount of one million dollars (\$1,000,000) per occurrence and three million dollars (\$3,000,000) in the annual aggregate covering NCGA, Medical Director, and all Physicians. NCGA shall provide Hospital with certificates of insurance evidencing the insurance coverage required under this Section at the time this Agreement is executed. Such insurance policy or policies shall also provide for not less than thirty (30) days notice to Hospital of any cancellation, reduction, or other material change in the amount of scope of any

F. Business and Financial Risk

• Identify any specific business and financial risks of the arrangement.

None identified

• Identify any conflicts of interest that have been identified through application of the Conflict of Interest Policy.

None identified

G. Special Terms

• List any special requests or conditions proposed by the physician.

None

Recommended for Approval:		
	Dated:	
Chief Executive Officer Doctors' Medical Center – San Pablo		

Attachment: Fair Market Value analysis

Fair Market Value Analysis

Northern California Gastroenterology Associates Medical Group

Services Contract

Date completed: July 18, 2013

Contract Payment Terms: The aggregate compensation is projected to be approximately \$450,000, composed of the following: \$775/diem for emergency call coverage, \$45,000 annually for Medical Director services, and \$350/procedure for care for MediCal and uninsured inpatients.

Comparison Information Source: MDRanger Compensation Survey, supplemented by written opinion by Penny Stroud, President of MD Ranger

Findings:

Compensation as outlined does not exceed Fair Market Value

Emergency Call Coverage - Per Diem		50%		75%		90%
All Hospitals	\$	480	\$	520	\$	620
Urban Hospitals	\$	470	\$	500	\$	820
DSH Share Percentage <30%	\$	480	\$	520	\$	1,050
Medical Director - Annual	Hammandi the de grand areas. An agrana papaga ;	in the contract of the contrac	j	ant and make their solubular and an even to the solubular and an even of the solubular global member.	-	1,030
All Hospitals	\$	36,000	\$	67,100	\$	72,000
Urban Hospitals	\$	36,000	\$	67,100	\$	72,000
DSH Share Percentage <30%	\$	36,000	\$	72,000	\$	77,100
Per Procedure/Medical Specialty		enteretrieten entere en egeneral et enterplanetatione en en en enterplanetarioriscopius desidente				
All Hospitals (only data available)		\$270		\$400	areas bare support, guide and and his con-ma	\$500

From: Penny Stroud [mailto:pstroud@mdranger.com] Sent: Thu 7/18/2013 3:34 PM To: Gideon, Dawn Cc: Caughman, Noel Subject: Re: GI Coverage Yes, I feel comfortable and no, I don't think there needs to be a cap. On 7/18/2013 10:24 AM, Gideon, Dawn wrote: > Thank you Penny. > Upon further review and based upon your input, I plan suggest to the physicians a slight modification. Please let me know if you can continue to support as not exceeding fair market value: > Call payment: no change - leave at \$775/day > Medical Director: I see no strong justification for pushing this to the 90% and will instead suggest \$45,000 > Per Procedure: I would like to propose \$350/procedure. > Based upon projected volume for the inpatient, this total is \$450,375. Do you feel comfortable with this number? Do you believe that we need to cap the inpatient procedure number? > > > From: Penny Stroud [mailto:pstroud@mdranger.com] > Sent: Wed 7/17/2013 5:59 PM > To: Gideon, Dawn > Cc: Caughman, Noel > Subject: Re: GI Coverage > Dawn, > I am familiar with the challenges faced by Doctor's Medical Center due to its difficult payer mix, financial situation and limited medical staff. These types of conditions are what frequently result in situations in which a hospital must pay more than the standard benchmark ranges for coverage and direction services. For example, your hospital reports 45% of its patients meet DSH criteria and more than 45% are Medicare. > Based on these factors, and my knowledge of the local market: > The \$775 is slightly over the 90th percentile of the All Hospital benchmark, however it is between the 75th and 90th for hospitals with more than 150 beds and for all Urban hospitals. Based on the unique situation you have described, I believe the proposed amount would not exceed fair market value. The \$70,000 medical directorship fee falls just below the 90th percentile for all hospitals, as well as for the benchmarks based on urban, non-trauma and bed size. Based on the unique situation you have described. I believe the proposed amount would not exceed fair market value. The proposed payment per inpatient procedure of \$225 is between the 25th and 50th percentile for per episode payments for medical specialties. There are a number of hospitals that pay both a per diem rate and a per episode rate for physicians covering call. Based on the the unique situation you have described, I believe the proposed amount would not exceed fair market value. > Let me know if you need further clarification.

> Best regards, > Penny

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> On 7/16/2013 3:52 PM, Gideon, Dawn wrote:
  >
  >
       Penny:
       In follow up to our conversation of today regarding compensation for GI services, including ED call coverage,
  coverage of inpatient cases, and administrative medical director services, I am considering the following provisions
 and would like your opinion regarding the appropriateness of the proposed comp approach. As we discussed, there
 is only one GI group at Doctors Medical Center, and I have been unsuccessful in attracting other practices to the
 hospital. Two of my predecessors have had similar difficulty.
 >
 >
       In order to ensure the availability of GI services for the emergency department as well as for procedures on
 inpatients, I am considering the following:
 >
 >
 >
       $775/day Emergency Department call coverage
 >
 >
       $70,000 Medical Director fee
 >
      $225/inpatient procedure
 >
      I believe that these numbers are consistent with the 90% as outlined in your Physician Contract Benchmarks
Report. As discussed, I would appreciate your opinion on this proposed compensation package.
>
>
      Dawn Gideon
>
      Interim Chief Executive Officer
>
      Doctors Medical Center
      2000 Vale Road, San Pablo, CA 94806
      Email: <u>dgideon@dmc-sp.org</u> <<u>mailto:jhardy@dmc-sp.org</u>>
>
>
      510-970-5107
Penny Stroud, President
MD Ranger, Inc.
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MEDICAL EXECUTIVE REPORT

TAB 11

MEDICAL EXECUTIVE COMMITTEE REPORT TO THE GOVERNING BODY OF THE BOARD OF DIRECTORS JULY 24, 2013

The Medical Executive Committee of the Medical Staff met on July 8, 2013. Kathy White provided an administrative update. The MEC approved the following policies and is seeking Governing Body approval at this time:

- Nutrition Screening Policy
- IV Administration Guidelines (Updated 2013)
- Therapeutic Substitution/Restrictions (Updated 2013 Revised Antibiotic List)
- ER SEPSIS Order Set (New Form)
- DKA Order Set (Revisions)
- Lasix/Albumin
- Critical Care Insulin Infusion Protocol

Each of the policies and the routing sheet for the Committee approval process is attached.

At the recommendation of The Joint Commission, the medical staff is revising privilege forms within each of the departments to outline a set of "core" privileges that are granted to all members of the department, and expanded privileges that are granted only upon request and based on evidence of proficiency. The MEC approved the new privilege forms for Internal Medicine/Family Practice and for Emergency Medicine, and is seeking Governing Body approval at this time of the attached privileges forms.

The MEC reviewed and approved the report of the Credentials Committee, the Credentials Report is attached for review and approval by the Governing Body.



APPROVAL ROUTING SHEET FOR POLICIES AND PROCEDURES



All items marked with † must be completed, and or required routing

trump of the second of the sec	†CHECK ONE: New Rev	riewed
TITLE: Notrition Screening	Revised: 🗆	Major ⊠Minor
† Administrative Clinical	Department Food and N	
†SUBMITTED BY: Denise Jow, Rogis	tered Dietikan	
†NEW POLICY - REASON FOR SUBMISSION: ☐ Chang		CDPH TJC Other
†REVIEWED OR REVISED - SUMMARY OF POLICY		
Removal of Albumin, and adding	Cancer under Pricity	1 = 2 Verbisge
serieued by the Registered Dieti Screening of food-prug Inter	stating Medication in	describe
Screening of food - Drug Inter	achians policy	CO IN FAC
	MEETING DATE	APPROVAL
Manager or Department Director [†]	·	
Medical Staff Department(s):	June 26, 2013	Approved w/ Minor Changes
Cancer Committee ☐ CV Surgery Committee ☐ Infection Control Committee ☐ IDP Committee ☐ Medical Ethics Committee ☐ Patient Safety Committee ☐ Radiation Safety Committee ☐ Patient Safety Committee ☐ Respiratory/Critical Care/ED Committee ☐ Quality Improvement Team: ☐ EM Committee ☐ EOC/Safety Committee ☐ Other:		Minor Changes
☐ Nursing Department:		
☐ Nursing Practice:		
Forms Committee (as applicable)		
☐ Administrative Policy Review Committee (APRC) [†]		
☐ Executive Leadership		
(as applicable)	July 8, 2013	Approved
Board of Trustees (automatic from MEC) (as applicable)		

DOCTORS MEDICAL CENTER

Manual: FOOD & NUTRITION	Sub Folder: Clinical Nutrition
Title: Nutrition Screening	Reviewed: 10/01, 2/02, 1/05,1/09 Revised: 4/26/02, 5/07/03, 9/15/03, 3/2/06, 4/07, 3/09, 6/12, 4/13
Effective Date: 5/94 Expiration Date:	Page 1 of 3

PURPOSE: To plan for the nutritional care of the patient based on his/her specific needs through the process of screening and assessment.

POLICY: Nutrition screening will be completed within 24 hours of a patient's admission to the hospital in order to determine patient's nutritional risk and need of medical nutrition therapy. Medication/Food interaction review by the Registered Dietitian is addressed in the Screening for Food-Drug Interactions policy.

DEFINITION/OVERVIEW: (If Needed)

RD - Registered Dietitians IBW - ideal body weight UBW - usual body weight

PROCEDURE:

- 1. New inpatient admissions at Doctors Medical Center will be screened:
 - A. Initial nutrition screen by nursing Admission Assessment in electronic medical record.
 - B. Nutrition Screen by the Nutritional Assistant within 24 hours of admission using the Nutrition Evaluation and Prioritizing Protocol.

Based on this information (Admission Assessment and Nutrition Evaluation and Prioritizing Protocol), the Nutritional Assistant will prioritize patients into one of three nutrition care levels:

- a. Priority #1 High Nutrition Risk Potential
- b. Priority #2 Moderate Nutrition Risk Potential
- c. Priority #3 Low Nutrition Risk Potential
- 2. Screenings are documented in the Medical Nutrition Therapy #1 section of the electronic medical record by the Nutritional Assistant.
- 4. The Nutritional Assistant will re-screen potential low nutrition risk patients within 7 days. Moderate to high risk patients will be referred to RD. Patients identified as needing medical nutrition education will be referred to RD.
- 5. Patients with orders of NPO and Clear Liquids shall be re-screened in 3 days.

Nutrition Evaluation and Prioritizing Protocol

The initial nutrition screen is completed by nursing on the Initial Assessment. The Nutritional Assistant reviews the Nursing Initial Assessment and uses the criteria listed below to identify nutrition risk priority within 24 hours of admission. The RD is notified of patients at potential moderate to high nutrition risk.

	PRIORITY 1: Potential High Nutrition Risk	PRIORITY 2: Potential Moderate Nutrition Risk	PRIORITY 3: Potential Low Nutrition Risk
INTAKE		<50% ≥5 days	>75%
% IBW	<80%	80-90%	>90%
%UBW	<90% or	90-95% or	>95%
	>10% change x1month	>5% change x1month	stable wt
Albumin g/dl	<2.0	2.0 - 2.5	>2.5
WEIGHT LOSS		>2% x 1 week	
(Unintentional weight loss upon		>5% x 1 month	
admission)		>7.5% x 3 month	
BMI		<19	
	NPO/CL ≥ 5 days Diarrhea ≥ 1 week Vomiting ≥ 1 week	NPO/CL 3-4 days	
DIAGNOSIS	Burns >15%TSA Cancer: (Head & Neck, Esophageal, Gastric) Dysphagia Enteral/Parenteral Failure to Thrive Gestational Diabetes Malnutrition Necrotizing Fascitis Pancreatitis Pressure Ulcer - (Stage III or IV) Vent Patient	Burns <15% TSA Cancer: (Small Intestine, Colon, Rectal, Liver, Pancreas) CHF: New/exacerabation Diabetes: (New onset, out of control w/glu >250 on admission or HbA1c>7) Dialysis/ESRD Liver Failure Non healing wound Pregnancy/Lactating Pressure Ulcer - (Stage I or II)	H/O CHF – Nutrition Assistant to see if pt follows low sodium diet. Refer pts that need education to RD.
ASSESSMENT GUIDELINES RD has the discretion to change a patient's nutrition risk level.	Medical Nutrition Therapy Assessment within 48 hours.	RD to provide Medical Nutrition Therapy Assessment within 72 hours	Nutritional Assistant has the discretion to change a patient's nutrition risk level when rescreening priority III pts.
FOLLOW-UP	Initial follow-up is documented within 5 days by RD. Additional F/U as per RD discretion.	Initial follow-up is documented within 7 days by RD. Additional F/U as per RD discretion.	Rescreened by Nutritional Assistant within 7 days. NPO & Clear Liquids rescreened in 3 days.

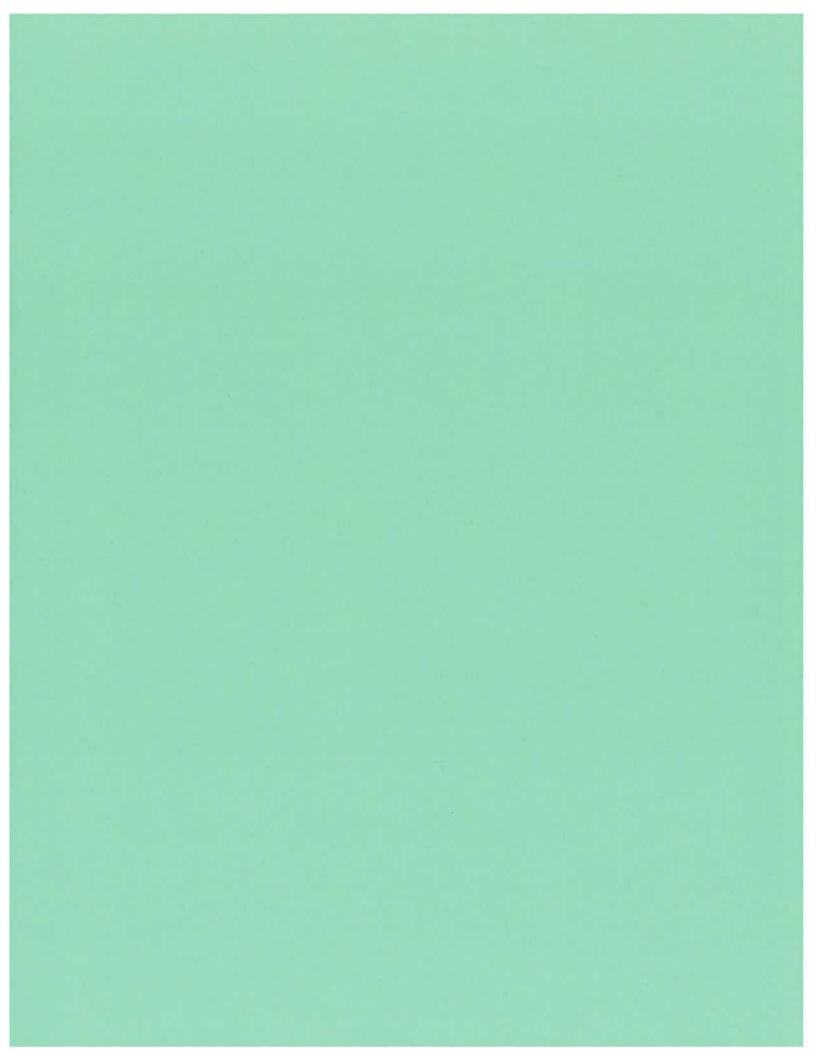
Title: Nutrition Screening

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REFERENCES:

Academy of Nutrition and Dietetics The Nutrition Care Manual® TJC Std PC01.02.01

Responsible for		
review/updating	Director Food & Nutrition Services	
(Title/Dept)	Clinical Nutrition Manager	Food and Nutrition Services



APPROVAL ROUTING SHEET FOR POLICIES AND PROCEDURES



All items marked with † must be completed, and or required routing

	CHECK ONE: New Revi	ewed
TITLE: IV Drug Administrations Guidelines	⊠ Revised : □ N	Iajory⊠Minor
† Administrative Clinical D	epartment	
†SUBMITTED BY: Therese Helser, R	Ph	
TNEW POLICY - REASON FOR SUBMISSION: - Change in Drug Guide		CDPH TJC Other
†REVIEWED OR REVISED - SUMMARY OF POLICY / P	ROCEDURE CHANGES:	
IV Drug Administration Guid	de line Approved	(see attached
with some medications to	be dropped from	1134-
	MEETING DATE	APPROVAL
√lanager or Department Director [†]		,
Medical Staff Department(s):	June 20, 2013	Approved w/
☐ Cancer Committee ☐ CV Surgery Committee ☐ Infection Control Committee ☐ IDP Committee		Minor Changes
Medical Ethics Committee Patient Safety Committee		
Radiation Safety Committee Respiratory/Critical Care/ED Committee		
Quality Improvement Team: EM Committee	***	
☐ EOC/Safety Committee ☐ Other:	***************************************	
☐ Nursing Department:		
☐ Nursing Practice:		
Forms Committee (as applicable)		
☐ Administrative Policy Review Committee (APRC) [†]		
☐ Executive Leadership		
Medical Executive Committee (MEC) (as applicable)	July 8, 2013	Appraved(
Board of Trustees (automatic from MEC) (as applicable)		

Doctors Medical Center

IV DRUG ADMINISTRATION GUIDELINES

{excludes chemotherapeutic agents, this is not a comprehensive list, for IV medications not on this list please consult with pharmacist or physician)

DKOG	DIRECT IV PUSH	IV INFUSION	MONITORED AREA (CARDIAC MONITORING) ICU, ED, PACU, OR, CCL, TELE (3 RD & 4 TH)	SUGGESTED MONITORING PARAMETERS
(Reopro)	YES, Loading dose (see protocol)	YES, See protocol	YES	Vital signs
Acetaminophen (Ofirmev)	ON	YES, over 15mins	ON	ET.
AcetaZOLAMIDE (Diamox)	YES	YES	NO	Urine output, vital signs
Acetylcysteine (Acetadote)	NO	YES	NO	See protocol
ACTH (corticotrophin)	NO	YES	ON	Vital signs
Acyclovir (Zovirax)	ON	YES	NO	Urine output, vital signs
Adenosine (Adenocard)	YES, Over 1-2 seconds	ON	YES	EKG, Vital signs
Albumin	NO	YES	ON	Vital siens
Alteplase (Activase/TPA)	YES, Bolus dose (in AMI)	YES	YES	See specific protocol (interventional
Alteplase (Cathflo)	YES, Catheter clearance	ON	ON	Bleeding, vital signs
Amikacin	ON	YES, Over 30 to 60 minutes	ON	Ototoxicity, vital signs
Aminocaproic Acid (Amicar)	ON	YES	ON	Vital signs
Aminophylline	ON	YES	ON	Vital signs Labs: Serum theophylline level Drug interactions (multiple)
Amiodarone (Cordarone)	ON	YES, Requires in-line filter	YES (see protocol)	CXR, pulmonary function tests, ophthalmic exam, FiO2 delivery to tissues, EKG, vital signs

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(excludes chemotherapeutic agents, this is not a comprehensive list, for IV medications not on this list please consult with pharmacist or physician)

Respiratory support required, nerve stimulation, vital signs Rash, flushing, GI toxicity, vital signs EKG (for cardiac doses), vital signs SUGGESTED MONITORING Anticholineric effects, vital signs Refer to protocol, bleeding, vital Vital signs, Signs of anaphylaxis Vital signs, Signs of anaphylaxis Labs: Scr, BMP, serum calcium, Fever & chills (premedicate as Labs: Serum phosphorus and Labs: Scr, BUN, electrolytes **PARAMETERS** Urine output, vital signs Labs: Scr, electrolytes needed), vital signs (including Mag, K+) Labs: PTT/ACT, PT EKG, vital signs Vital signs Vital signs Labs: C/S Labs: PTT Labs: C/S Labs: C/S albumin calcium signs CARDIAC MONITORING) ICU, ED, PACU, OR, CCL, TELE (3RD & 4TH) NO- Unless atropine given in **MONITORED AREA** YES (for IV push) cardiac doses NO YES YES 2 9 9 9 9 9 9 9 YES, DSW for IV use, infuse over 4-YES, Intermittent infusion over 1 YES, Infuse over 30-60 minutes YES, Refer to cath lab protocol YES, Continuous infusion only 6 hours, protect from direct YES, Infuse over 30 minutes YES, Infuse over 60 minutes IV INFUSION sunlight hour YES YES YES 9 9 9 ---, Calcium gluconate (1.5 ml/min) -Avoid injecting calcium into same iv line as phosphate containing YES, Respiratory support required Calcium Chloride (0.5-1.5 ml/min)-YES, Bolus dose (refer to cath lab NO, Continuous infusion only YES, Slowly over 3-5 minutes YES, Slowly over 1-2 minutes **DIRECT IV PUSH** YES, Slowly over 5 minutes avoid extravasation avoid extravasation protocol) solutions YES YES 9 9 9 YES Ampicillin (+ sulbactam) (includes lipid forms) DRUG Amphotericin B (various forms) Azithromycin Benztropine **Bumetanide** (Zithromax) Argatroban Atracurium (Angiomax) Aztreonam **Bivalirudin** (Tenormin) (Cogentin) Calcium IV (Azactam) Atropine Unasyn Atenolol Calcitrol

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IV DRUG ADMINISTRATION GUIDELINES
(excludes chemotherapeutic agents, this is not a comprehensive list, for IV medications not on this list please consult with pharmacist or physician)

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	DIRECT IV PUSH	IV INFUSION	(CARDIAC MONITORING) ICU, ED, PACU, OR, CCL, TELE (3 RD & 4 TH)	SUGGESTED MONITORING PARAMETERS
(Teflaro)	O _Z	YES	ON	Vital signs, Signs of anaphylaxis, Scr/BUN Labs: C/S
Cephalosporin antibiotics: Cefazolin (Ancef) Cefepime (Maxipime) Cefotetan (Cefotan) Cefotaxime (Claforan) Ceftazadime (Fortaz) Ceftriaxone (Rocephin) Cefuroxime (Zinacef)	—, Refer to individual cephalosporin product information At DMC- IVPB is the parenteral route of choice	YES, Over 30-60 minutes or slower preferred	ON	Vital signs, Signs of anaphylaxis, Labs: C/S
Cimetidine (Tagamet)	YES, Dilute to 20 mL Infuse over 5 minutes	YES, Over 15 minutes	NO	Vital signs
Ciprofloxacin (Cipro)	ON	YES, Over 60 minutes	NO	Vital signs Labs: C/S Drug interactions (NSAID's Warfarin,
Clindamycin (Cleocin)	ON	YES, Over 30 minutes	ON	Bowel frequency change
Cyanocobalamin	YES, Not recommended as excretion is faster than SC or IM	YES, IM or SC preferred	ON	Labs: Serum K+ (early in therapy)
Cyclosporine (Sandostatin, Neoral)	NO	YES, Over 2-6 hours	NO	Vital signs Labs: Scr, BUN, LFT, K+ Drug interactions (multiple)
Dantrolene (Dantrium)	YES	YES	NO	Extravasation, muscle weakness, EKG (overdose only), vital signs

DRUG	DIRECT IV PUSH	IV INFUSION	(CARDIAC MONITORING) ICU, ED, PACU, OR, CCL, TELE (3 RD & 4 TH)	SUGGESTED MONITORING PARAMETERS
Daptomycin (Cubicin)	ON	YES, Over 30 minutes	NO	Vital signs Labs: C/S, CPK levels
Darbepoetin (Aranesp)	, Post dialysis via dialysis tubing only otherwise SC preferred	ON	NO	Vital signs Labs: CBC, renal function, iron status
Desmopressin (DDAVP)	YES	YES, Slowly over 15–30 minutes	ON	Urine output Labs: clotting factors (at risk patients)
Dexamethasone	YES Doses under 10mg may be given undiluted over at least 1 min	YES Doses above 10 mg should be diluted and administered over 15 minutes	ON	Vital signs
Diazepam (Valium)	YES, Slowly Max: 5 mg/minute	NO, Yes if patient on a ventilator	NO FOR IVP (YES for a continuous drip)	Respiratory depression (closely monitor for one hour), phlebitis, local irritation, vital signs
Dicyclomine (Bentyl)	NO, IM only	NO, IM only	ON	Vital signs
Digoxin	YES	ON	NO - Unless multiple loading doses are to be given	EKG, vital signs Labs: Scr, electrolytes, serum digoxin Drug interactions (multiple)
Digoxin immune FAB (DigiFab)	YES	YES, Over 30 minutes	YES	Vital signs Labs: serum digoxin, serum potassium
Diltiazem (Cardizem)	YES, Slowly over 2 minutes	YES	YES (see protocol)	EKG, vital signs
Diphenhydramine (Benadryl)	YES	ON	ON	Vital signs
Dobutamine (Dobutrex)	NO	YES	YES (for IV push)	Extravasation, EKG, vital signs
Dopamine	NO	YES	YES (see protocol)	Extravasation, EKG, vital signs
Doripenem	ON	YES, Over 60 minutes	no	Signs of anaphylaxis, Myoclonic activity, vital signs Labs: Scr. C/S

IV DRUG ADMINISTRATION GUIDELINES
(excludes chemotherapeutic agents, this is not a comprehensive list, for IV medications not on this list please consult with pharmacist or physician)

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DRUG	DIRECT IV PUSH	IV INFUSION	MONITORED AREA	SUGGESTED MONITORING
			(CARDIAC MONITORING) ICU, ED, PACU, OR, CCL, TELE (3 RD & 4 TH)	PARAMETERS
Doxycycline	NO	YES, Over 60 minutes	NO	Phlahitic vital cions
Edrophonium (Tensilon)	YES	ON	ON	Neuromuscular, cardiovascular,
Enalaprilat (Vasotec)	YES, Slowly over 5 minutes	ON	ON	Vital signs
Enoxaparin (Lovenox)	YES, Cardiac Cath Lab only Lovenox 0.3mg/kg IV	ON	NO- CATH LAB ONLY	Bleeding, vital signs Labs: platelets
Ephedrine	YES, Slowly	CN	ON	Do NOT give IM
	5-25 MG/dose SLOW IVP		or of mess vasopressive gose	Vital signs, ECG
	Kepeat after 5-10 min prn then q3-4hr			
	NTE 150mg/24hrs			
Epinephrine	YES	YES	YES - (only if given as drin)	CVC vital cirac
Eptifibatide	YES, Load over 1-2 minutes	YES	YES	Vital signs
(integrilin)				Labs: Scr, platelets, Hgb/Hct,
Ertranenem	Ca	VEC 0:		P11/ACI (refer to protocol)
(Invanz)		res, Over 30 minutes In normal saline only	OZ.	Vital signs, Signs of anaphylaxis
Erythromycin	ON	YES, In NS only	NO	Phlebitis, local irritation, vital signs
				Labs: C/S
(Brevibloc)	YES, 10 mg/ml conc, only as loading dose	YES	YES	EKG, vital signs
Estrogen, conjugated (Premarin IV)	YES, Not to exceed 5 mg/minute	YES, Dilute in NS Infuse over 30-40 minutes	ON	Vital signs
Ethacrynic acid (Edecrin)	YES, Slowly over several minutes, max: 100 mg bolus dose	YES, Over 30 minutes	ON	Urine output, vital signs
Famotidine	YES, Dilute to 5-10 mL	YES	NO	Labs: Scr, electrolytes Vital signs
(repula)	Inject over at least 2 minutes			
Fentanyl	YES	YES	YES	Vital signs, pulse oximeter
Ferric Iron Gluconate	YES, Not to exceed 12.5 mg/minute	YES, Infuse over 1 hour	ON	Hypersensitivity, hypotension vital
(Ferriecit)				signs
(C) acribe 062002 vi	(2)	I I		Labs. refficin, transferrin saturation

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DRUG	DIRECT IV PUSH	IV INFUSION	(CARDIAC MONITORING) ICU, ED, PACU, OR, CCL, TELE (3 RD & 4 TH)	SUGGESTED MONITORING PARAMETERS
(Neupogen)	NO, SC preferred	—, With dialysis over 15-30 minutes	ON	Labs: CBC, platelets
Fluconazole (Diflucan)	ON	YES, Max rate: 200mg/hr	ON	Skin rash, vital signs
Flumazenil (Romazicon)	YES, Over 30 seconds; wait 30 sec. For 2nd dose, may repeat at 1 minute intervals for max recommended dose of 3 mg If re-sedation occurs, up to 1mg doses can be repeated at 20 minute intervals, max 3 mg/hr	ON	ON	Vital signs (for one hour post administration)
Folic Acid	YES, No more than 5 mg/minute	YES	ON	Labs: blood indires seriim folate
Fosphenytoin (Cerebryx)	YES, For doses < 500 mg, not to exceed 100 –150 mg/minute Dosed in phenytoin equivalents	YES, Not to exceed 150mg/minute Dosed in phenytoin equivalents	YES - If dose is above 500 mg phenytoin equivalents	EKG (loading dose), local irritation, paresthesia, vital signs Labs: serum phenytoin Levels Drug interactions (multiple)
Furosemide (Lasix)	YES, Slowly over 1-2 minutes for doses less than or equal to 100 mg, do not exceed 20 mg/min	YES, 4 mg/min max recommended rate for doses > 100mg	ON	Urine output, vital signs Labs: Scr, electrolytes
Ganciclovir (Cytovene)	ON	YES, infuse over 1 hour, handle as chemotherapy agent	ON	Vital signs Labs: Scr, WBC, serum levels (if
Gentamicin	ON	YES, Over 60 minutes	ON	Vital signs Labs: Scr, gentamicin level
Giucagon	YES	YES	ON	Vital signs
Glycopyrrolate (Robinul)	YES	NO	ON	Vital signs
Haloperidol (Haldol)	NO	NO	NO	Extrapyramidal reactions, vital signs
Heparin	YES	YES	ON	vital signs
Hydralazine (Apresoline)	YES	ON	ON	Vital signs

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Doctors Medical Center

DRUG	DIRECT IV PUSH	IV INFUSION	(CARDIAC MONITORING) ICU, ED, PACU, OR, CCL, TELE (2 RD 8, A TH)	SUGGESTED MONITORING PARAMETERS
Hydrocortisone (Solu-cortef)	YES	YES	ON	Vital signs
Hydromorphone (Dilaudid)	YES	YES	ON	Vital signs, pulse oximeter
HydrOXYzine	NO, IM only (can cause tissue extravasation/abscess)	NO, Can cause tissue extravasation/abscess		recommended
lbutilide (Corvert)	ON	YES, over 10 minutes	YES	EKG, vital signs
Infiximab (Remicade)	ON	YES, Over at least 2 hours, use non-PVC bags and tubing only	OV	Vital signs
Insulin	YES, Regular insulin only	YES	ON	Vital signs
Isoproterenol (Isuprel)	YES, Slowly, dilute 1 mg to 10 mL	YES	YES	Labs: blood or urine glucose EKG, vital signs
Itraconazole (Sporanox)	NO	YES, Over 60 minutes	NO	Neuropathy, CHF, vital signs
Kanamycin	NO	YES, Over 60 minutes	ON	Vital signs
Ketorolac (Toradol)	YES	ON	ON	Bleeding
Labetalol (Trandate)	YES, Slowly over 2 minutes May repeat doses at 10 minute intervals	YES, Start at 2mg/minute	YES (For IV push and continuous	EKG, vital signs
Levofloxacin (Levaquin)	NO	YES, Over 60 minutes	NO	Vital signs
Levothyroxine	YES	ON	ON	Vital signs
Lidocaine	YES, Over 1 minute	YES	YES	EKG, vital signs
Linezolid (Zyvox)	ON	YES, Over 30–120 minutes	NO	Vital signs
Lorazepam (Ativan)	YES, Slowly	YES, Patients on a ventilator	NO - ICU (monitored area for continuous drip)	Respiratory depression (closely monitor for one hour) vital cians

DRUG	DIRECT IV PUSH	IV INFUSION	(CARDIAC MONITORING) ICU, ED, PACU, OR, CCL, TELE (3 RD & 4 TH)	SUGGESTED MONITORING PARAMETERS
Magnesium	YES, Over 1-2 minutes for dysrhythmia Over 4 minutes for life-threatening low Mag level (Must dilute to less than or equal to 10 % solution)	YES, Over 3 hours for severely low Mag level	NO- Yes for L&D monitoring for cardiac dysrhythmia	EKG, vital signs Labs: magnesium level
Mannitol	YES, Test dose IV push given (3-5 ml) first (slowly over 20-30 minutes) Use with in line filter provided Inspect vial for crystals	YES, Test dose IV push given (3-5 ml) first Use with in-line filter provided	ON	Urine output, vital signs Labs: electrolytes
Meperidne (Demerol)	YES	YES	ON	Vital signs, pulse oximeter
Methylprednisolone (Solu-medrol)	YES, For dose less than 2 mg/kg or 250 mg	YES, For dose above 2 mg/kg or 250 mg	ON	Vital signs Labs: blood sugar
Metoclopramide (Reglan)	YES, 10 mg or less: give slowly over 1-2 minutes For doses > 10 mg: dilute and infuse over 15 minutes	YES	ON	Extrapyramidal symptoms, vital signs
Metoprolol (Lopressor)	YES	NO	YES (for IV push)	EKG, vital signs
Metronidazole (Flagyl)	NO	YES, Infuse over 1 hour, do not refrigerate IVPB	ON	Vital signs
Midazolam (Versed)	YES, Slowly DO NOT GIVE AS A FAST BOLUS (give no faster than 2.5 mg over at least 2 minutes as a 1 mg/mL or more dilute solution) Patients > 60 years of age, debilitated, or chronically ill should receive lower doses, repeated doses after 2 minutes if needed	YES, Monitored area for continuous drip Respiratory support required	YES	Respiratory depression (closely monitor for one hour post IVP dose), respiratory support required for continuous drip, vital signs
Milrinone (Primacor)	YES, Loading dose	YES	YES	Urine output, EKG, vital signs
Morphine	YES	YES	ON	Vital signs, pulse oximeter recommended

90	DIRECT IV PUSH	IV INFUSION	(CARDIAC MONITORING) ICU, ED, PACU, OR, CCL, TELE (3 RD & 4 TH)	SUGGESTED MONITORING PARAMETERS
Nalbuphine (Nubain)	YES	YES	ON	Vital signs, pulse oximeter
Naloxone (Narcan)	YES	YES	ON	Respirations (continued surveillance
Nicardipine (Cardene)	NO	YES	YES	Phlebitis (change peripheral site Q12h), EKG, vital signs Labs: baseline electrolytes and lipids, renal function, uric acid, plasma rennin
Nitroglycerin (Tridil)	ON	YES	YES	Symptom relief, wedge pressures as
Nitroprusside (Nitropress)	ON	YES	YES	Wedge pressures as needed, monitor for signs of cyanogens
Norepinephrine (Levophed)	ON	YES	YES	EKG, vital signs
Octreotide (Sandostatin)	YES, Emergency only (e.g, carcinoid crisis)	YES, Over 15-30 minutes	YES	EKG, vital signs Note: octreotide suspension should NOT be given I.V. or SQ, IM is the
Ondansetron (Zofran)	YES, For doses < 5 mg: over at least 30 seconds	YES	ON	Vital signs
Oxytocin (Pitocin)	NO	YES	NO	Fetal monitoring, uterine contractions, vital signs
Pancuronium	YES, Respiratory support required	, Not recommended	YES	Respiratory support required, nerve
Pantoprazole (Protonix)	YES	YES, Intermittent: 15 minutes or continuous	ON	Vital signs
Papaverine	YES, Slowly over 1-2 minutes	NO	NO	Vital signs
renicilin	ON	YES	NO	Anaphylaxis, vital signs Labs: C/S
rentamidine	0	YES, Over at least 60 minutes	ON	Phlebitis, vital signs

DRUG	DIRECT IV PUSH	IV INFUSION	MONITORED AREA (CARDIAC MONITORING) ICU, ED, PACU, OR, CCI, TELE (3 RD & 4 ^{RH})	SUGGESTED MONITORING PARAMETERS
Phenobarbital	YES, Slowly 25-50 mg/minute 100 mg/min for initial status epilepticus dose	NO	ON	Vital signs Labs: phenobarbital level
Phenylephrine (Neo-Syneprine)	YES, Slowly	YES	YES	EKG, vital signs
Phenytoin (Dilantin)	YES, Not to exceed 50 mg/minute	YES, Dilute in NS 50ml (mix in normal saline only) Not to exceed 50mg/min Use0.22micron filter	VES (if loading dose is above 500 mg)	Local irritation, EKG, vital signs Labs: phenytoin level (loading dose) Drug interactions (multiple)
Phytonadione (Vitamin K.)	ON	YES, Dilute in NS 50-100ml to be given over 30-60 minutes. Not to exceed 1mg/min. IVPB preferred route for INR reversal	ON	Vital signs (BP especially), hypersensitivity reaction (when given IV) labs: PT
Piperacillin / +- tazobactam (Zosyn)	ON	YES	NO	Vital signs, Signs of anaphylaxis
Plasma protein fraction (Plasmanate 5%)	NO	YES	NO	Vital signs
Potassium chloride	NO	YES, Use Protocol	NO - See Protocol	Vital signs
Procainamide	YES, 100mg: do not exceed 50 mg/minute	VES, 500 mg can be infused over 25-30 minutes	YES	EKG, vital signs Labs: CBC, procainamide + NAPA levels, ANA titer (if lupus-like
Prochlorperazine (Compazine)	YES, Not more than 5 mg/minute	NO	ON	Vital signs
Promethazine (Phenergan)	YES, Must dilute with NS 10ml first and give via a running IV line. Large vein preferred (max: 25 mg/minute) IM route preferred (IV may cause extravasation injury)	NO	NO	Local irritation, extravasation injury (IV route), vital signs
Propotol (Diprivan)	YES	YES, Discard infusion bottles after 12 hours	YES	Respiratory support required, EKG,
Propranoloi	YES, Slowly over 2-10 minutes	YES, 2-3 mg/hr	YES	EKG, vital signs

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Respiratory support required, nerve Respiratory support required, nerve SUGGESTED MONITORING Labs: Scr, CBC, vancomycin levels Labs: Scr, C/S, tobramycin levels Vital signs (BP especially), EKG Drug interactions (multiple) **PARAMETERS** Labs: coagulation effects Labs: LFT, valproate level Bleeding, EKG, vital signs Labs: platelets, Hgb/Hct, stimulation, vital signs Labs: serum potassium stimulation, vital signs Labs: quinidine level Labs: CBC, platelets Flu-like syndrome Labs: blood gases coagulation tests Labs: CBC, LFT Vital signs Labs: C/S Labs: C/S (CARDIAC MONITORING) ICU, ED, PACU, OR, CCL,
TELE (3RD & 4TH) **MONITORED AREA** YES (except in emergency YES (except in emergency intubation) intubation) YES 9 9 2 YES 9 9 YES 20 9 9 9 9 YES, Respiratory support required YES, Over 60 minutes (not to YES, Over 30 min to 3 hours IV INFUSION YES, Over 30-60 minutes YES, Over 60-90 minutes YES, In NS over 2 hours YES, Over 60 minutes exceed 20 mg/min) YES YES YES 9 YES YES 9 9 YES YES, Slowly over 10 minutes for life-YES, Respiratory support required Max 50 mg recommended dose YES, Slowly over 10 minutes **DIRECT IV PUSH** YES, Over 5 seconds threatening asthma YES 8 YES YES 9 9 9 9 9 9 9 9 Sodium Bicarbonate sulfamethoxazole Valproate sodium DRUG (Bactrim, Septra) Succinyicholine Trimethoprim-Sargramostim **Tenecteplase** Rocuronium Vancomycin Terbutaline Tobramycin Protamine (Zemuron) Pyridoxine Quinidine (Depacon) (Brethine) Tigecyline Rifampin (GM-CSF) Thiamine (TNKase) (Tygacil)

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IV DRUG ADMINISTRATION GUIDELINES

Doctors Medical Center

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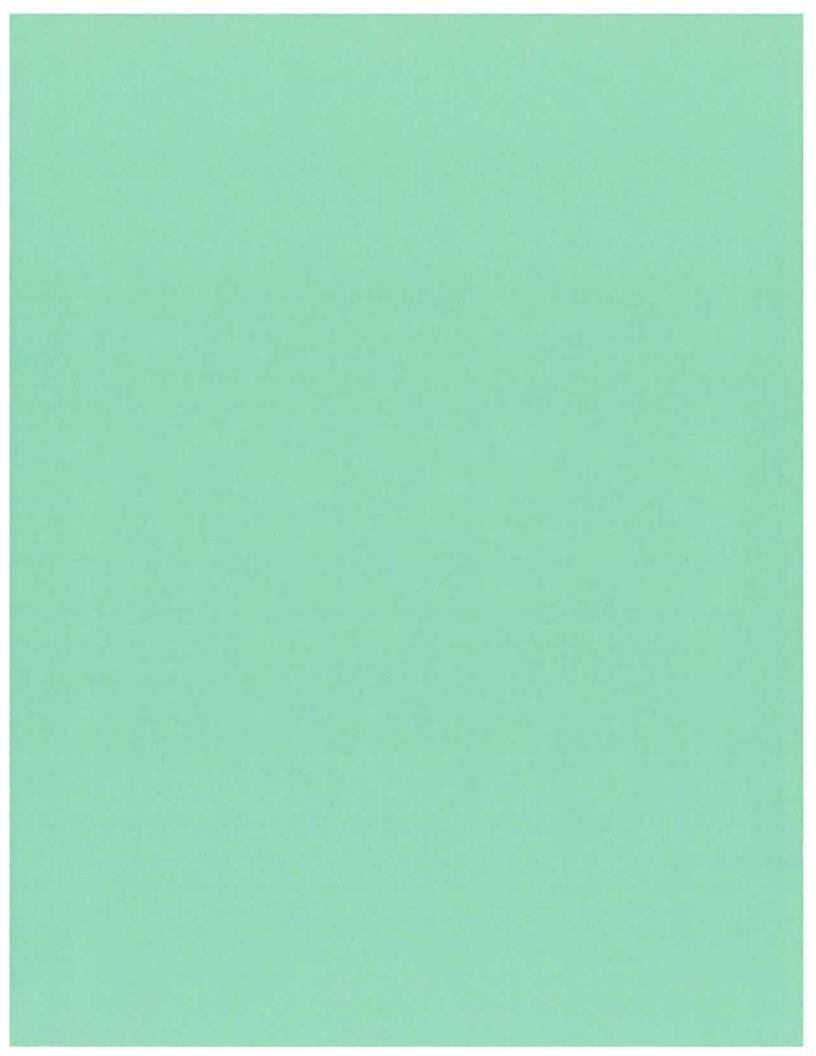
DRUG	DIRECT IV PUSH	IV INFUSION	(CARDIAC MONITORING) ICU, ED, PACU, OR, CCL, TELE (3 RD & 4 TH)	SUGGESTED MONITORING PARAMETERS
Vasopressin (Pitressin)	YES, Cardiopulomary arrest	YES, Refer to specific dosing protocols, Sepsis dosing and GI bleeding	YES	EKG, vital signs
Vecuronium (Norcuron)	YES, Respiratory support required	YES, Refer to protocol Respiratory support required	YES (except in emergency intubation)	Respiratory support required, nerve
Verapamil (Calan)	YES, 2.5 - 5 mg slowly over 3 minutes	ON	YES - If used with bedside monitor	EKG, vital signs
Voriconazole (VFEND)	ON	YES	NO	Visual function, rash, vital signs Labs: Scr, LFTs, bilirubin Drug interactions (multiple)

	NAPA N-acetylprocalnamide	normal saline	prothrombin	partial thromboplastin time	polyvinyl chloride	serum creatine	subcutaneously	total parenteral nutrition	urine output	
	NAPA	SN	ᆸ	H	PVC	SC	SQ	TPN	9	
Legend	electrocardiogram	hematocrit	hemoglobin	heart rate	intravenous	Potassium	potassium chloride	labor and delivery	liver function tests	magnesium
	EKG	HCT	Hgb	Ŧ	<u>>:</u>	★	ХC	L&D	LFT	Mag
	arterial blood gases	activated clotting time	antinuclear antibodies	brain natriuretic peptide	blood urea nitrogen	culture and sensitivity	calcium	complete blood count	congestive heart failure	chest X-ray
	ABG	ACT	ANA	BNP	BUN	S/S	CA++	CBC	H	CXR

References:

- 1. Lexicomp Drug Information Handbook [22th edition (2013-14)]

 - 2. Clinical Pharmacology [on-line edition (2013)] 3. Handbook on Injectable Drugs [17th edition (2013)]



APPROVAL ROUTING SHEET FOR POLICIES AND PROCEDURES

DOCTORS MEDICAL CENTER

All items marked with † must be completed, and or required routing

†TITLE: Therapeutic Subsititution / Restrictions	†CHECK ONE: New Revised: M	
	Department	1ajut Avinor
†SUBMITTED BY: Therese Helser, A		CDPH TJC Other
TREVIEWED OR REVISED - SUMMARY OF POLICY for Mulary - Changes consisted Adva: - HFA will have different Doeusate substituted with Doeusa	PROCEDURE CHANGES: Chan	nes in Drum
	MEETING DATE	APPROVAL
Manager or Department Director Medical Staff Department(s): Cancer Committee	June 20, 2013	Approved w/changes
☐ Administrative Policy Review Committee (APRC) [†]		
☐ Executive Leadership		
Medical Executive Committee (MEC) (as applicable)	July 8, 2013	Approved
Board of Trustees (automatic from MEC) (as applicable)		

DOCTORS MEDICAL CENTER SAN PABLO DRUG FORMULARY – THERAPEUTIC SUBSTITUTIONS AND RESTRICTIONS <u>THERAPEUTIC SUBSTITUTIONS – 2013 draft</u>

5Ht3 receptor antagonist

H

Orders received for Dolasetron or Granisetron for post-operative nausea and vomiting (PONV) or ordered as a general antinausea agent will be substituted with Ondansetron 4 mg iv or po q8h prn (higher doses or more frequent dosing is not recommended).

- The substitution will occur unless the patient has a documented allergy or has experienced treatment failure with ondansetron.
- A clarification order will not be sent by the pharmacy (a message will appear on the MAR, indicating the substitution).
 - A clarification order will be obtained by the pharmacy for inpatients scheduled to receive chemotherapy.
 - Dolasetron and Granisetron will be removed from Automated Cabinets and anesthesia trays.
- will have an autosubstitution of 4mg IV or SL every 8hrs or every 8 hrs as needed for nausea. (Exceptions: patients with ONDANSETRON (Zofran) IV or SL (ODT) form – all orders for doses greater than 4mg or frequency greater than 8 hrs – CINV, PONV, or in patients with documented history of a dose or frequency exceeding these amounts

The long acting Palonosetron (Aloxi), available only for cancer center patients is excluded from this therapeutic substitution*

CONVERSION TABLE- for epoetin dosed once, twice or three times per week. (Orders for every day, every other day will not Darbepoetin Alfa (ARANESP) (weekly dosing) will be substituted for orders of epoetin alfa (Procrit) per the following table: be filled until the prescriber is contacted for clarification.)

Darbepoetin alfa will be scheduled every Wednesday at 17:00. Estimated Aranesp starting doses (mcg/week) based on previous epoetin alfa dose (units/week)¹. Dosage increases should not be made more frequently than every 4 weeks.

Weekly Aranesp dose (mcg/week)	6.25	12.5	75
Previous weekly epoetin alfa dose Weekly Ara (units/week)	<2,500	2,500-4,999	5 MM.10 999

¹ Aranesp product package insert- 2004

40	09	100	200
11,000-17,999	18,000-33,999	34,000-89,999	000′06⋜

- HZ BLOCKERS will be substituted with equivalent IV or PO dosages of FAMOTIDINE (PEPCID) any time a non-formulary H2 Blocker is ordered (Ranitidine, Cimetidine, Nizatidine) m
- PROTON PUMP INHIBITORS (PPI'S) PANTOPRAZOLE (PROTONIX is the PPI of choice. Pantoprazole is substituted for both Pharmacy will substitute Pantoprazole based on the following equivalent dosages: Prevacid 30 mg=Prilosec 20 mg=Protonix 40 mg= Aciphex 20 mg=Nexium 40 mg Prevacid 15mg= Prilosec 10mg = Aciphex 20mg=Nexium 20 mg PO, NG/PEG and IV dosing. 4.
 - HYDROCODONE/ACETAMINOPHEN COMBINATIONS will be substituted with the following: Prevacid 60 mg=Prilosec 40 mg=Protonix 80 mg= Aciphex 40 mg=Nexium 40 mg 'n
- VICODIN (5 mg of hydrocodone and 500 mg acetaminophen) will be dispensed as NORCO-5 or its generic equivalent.
- 7.5 (7.5 mg hydrocodone and 500 mg of acetaminophen) or its generic equivalent. VICODIN HP, LORCET 10, or LORTAB 10 (10 mg of hydrocodone and 500-750 mg acetaminophen) will be dispensed as NORCO-10 (10 mg hydrocodone and 325 mg VICODIN ES (7.5 mg hydrocodone and 750 mg acetaminophen) will be dispensed as NORCO-7.5 of acetaminophen) or its generic equivalent.
- IPRATROPIUM (ATROVENT) with the same directions will be automatically substituted with DUONEB (nebulizations) or ALBUTEROL/IPRATROPIUM HFA AND NEBULIZATION orders written for ALBUTEROL (PROVENTIL/VENTOLIN) and COMBIVENT (MDI) (ALBUTEROL/IPRATROPIUM combinations). 6
- FLURAZEPAM (DALMANE) will be automatically substituted with TEMAZEPAM (RESTORIL) .

8. ANTACIDS:

- MYLANTA, GELUSIL, or MAALOX PLUS will be supplied for all orders or combination aluminum/magnesium liquid antacids. All products contain SIMETHICONE 20-25mg/5ml)
- MYLANTA II or MAALOX TC or generic equivalent will be supplied for all high potency combination products.
 - MYLANTA or generic equivalent will be supplied in the equivalent dose for all combination oral solids
 - ALUMINUM HYDROXIDE 500mg will be supplied for DIALUME, ALUCAPS and AMPHOGEL tablets.

9. ORAL PHOSPHATE PRODUCTS

K-Phos –Neutral tablets (250mg phosphorous) will be supplied for all orders of Neutra – Phos powder or Neutra-Phos- K powder (packet).

10. PRIMAXIN IV will be automatically substituted DORIPENEM IV

Orders for Primaxin 500mg q6 or q8h (or higher) will be switched to Doripenem 500mg iv q8h or based on current renal function (see below):

- CrCl above 50 ml/min: No dose adjustment needed dose 500mg iv q8h.
 - CrCl 30-50 ml/min: 250 mg IV (over 1 hour) every 8 hours.
- CrCl 10-30 ml/min: 250 mg IV (over 1 hour) every 12 hours.
- insufficient data. (Although not published, Doripenem 250mg IV q12h for HD and 500mg IV q8h for CrCl below 10 ml/min and : Specific dosage adjustment recommendations are not available due to CVVHD/CVVHDF/CVVH/CRRT has been used).

11. ADVAIR will be automatically substituted with SYMBICORT.

NOTE: ADVAIR diskus vs. ADVAIR HFA will have different doses of Symbicort substituted.

Advair (Fluticasone/Salmeterol)	Symbicort (Budesonide/Formoterol)
Advair 100/50 1 puff daily or bid	Symbicort 80/4.5 2 puff s daily or bid
Advair 250/50 1 puff daily or bid	Symbicort 160/4.5 2 puffs daily or bid
Advair 500/50 1 puff daily or bid	Symbicort 160/4.5 2 puffs daily or bid
Advair 45mcg/21 mcg 2 puffs bid	Symbicort 80mcg/4.5mcg 2 puffs bid
Advair 115 mcg/21 mcg 2 puffs bid	Symbicort 160mcg/4.5mcg 2 puffs bid
Advair 230mcg/21 mcg 2 puffs bid	Symbicort 160mcg/4.5mcg 2puffs bid

12. A general substitution for **EXTENDED RELEASE PRODUCTS (GENERIC IF AVAILABLE)** will be made by the pharmacy without notification unless MD specifies to not substitute branded extended release product-

Example. Md order for Adalat CC 60 mg can be substituted with Nifedipine 60mg extended release generic

- 13. CASPOFUNGIN will automatically be substituted with MICAFUNGIN Action: Automatic substitution for all Caspofungin orders with Micafungin 100 mg IV daily initially. Dose of up to 150mg per day can be used in certain infections.
 - Voriconazole injection was removed from the formulary per Dr. Afsari. We will still keep the oral voriconazole. Substitute for the injection is Micafungin inj. instead.

14. MOXIFLOXACIN IV/PO will be automatically substituted with LEVAQUIN IV/PO -

Action: Therapeutic substitution of Moxifloxacin to Levaquin 500mg IVC or PO q24h or (renally adjusted if required), pharmacist will obtain diagnosis prior to substitution.

15. COMBIVENT HFA will be automatically substituted with DUONEB

Action: Automatic substitution for all Combivent orders to Duoneb.

- Pharmacy will automatically switch to Duoneb 1 unit dose neb at same frequency (no chart order will be written, substitution will be reflected on MAR).
- FOR ventilator patients, all order for Duoneb will be changed to Albuterol HFA (Metal tip) as per RT protocol, switch will be made upon written order from RT.

16. LEVALBUTEROL HFA/NEBULIZER will be automatically substituted with ALBUTEROL

Action: Delete Levalbuterol HFA from formulary and automatic substitution for all Levalbuterol orders with Albuterol neb or HFA (dosing conversion is for adult patients):

- Levalbuterol 0.63mg neb will be switched to Albuterol 1.25mg at same dosing frequency
 - Levalbuterol 1.25mg neb will be switched to Albuterol 2.5mg at same dosing frequency
- Levalbuterol 45mcg/puff HFA will be switched to Albuterol HFA 90mcg/puff at same dosing frequency (number of puffs will be doubled per dose)

- 17. Cefotaxime/Ceftizoxime- All inpatient orders will be automatically substituted with Ceftriaxone 1 gm IV q24h. If dosing for meningitis, pharmacy will automatically substitute with Ceftriaxone 2 gm IV q12h. No chart order will be written.
 - 18. Docusate Calcium All inpatient orders for Docusate Calcium 240mg will be automatically substituted with Docusate Sodium 250mg oral.

RESTRICTIONS

- Daptomycin restricted to Infectious Disease practice
- Dantolene IV restricted for Malignant Hyperthermia
 - Ranolazine restricted to Cardiology practice

Updated 5/13



APPROVAL ROUTING SHEET FOR POLICIES AND PROCEDURES



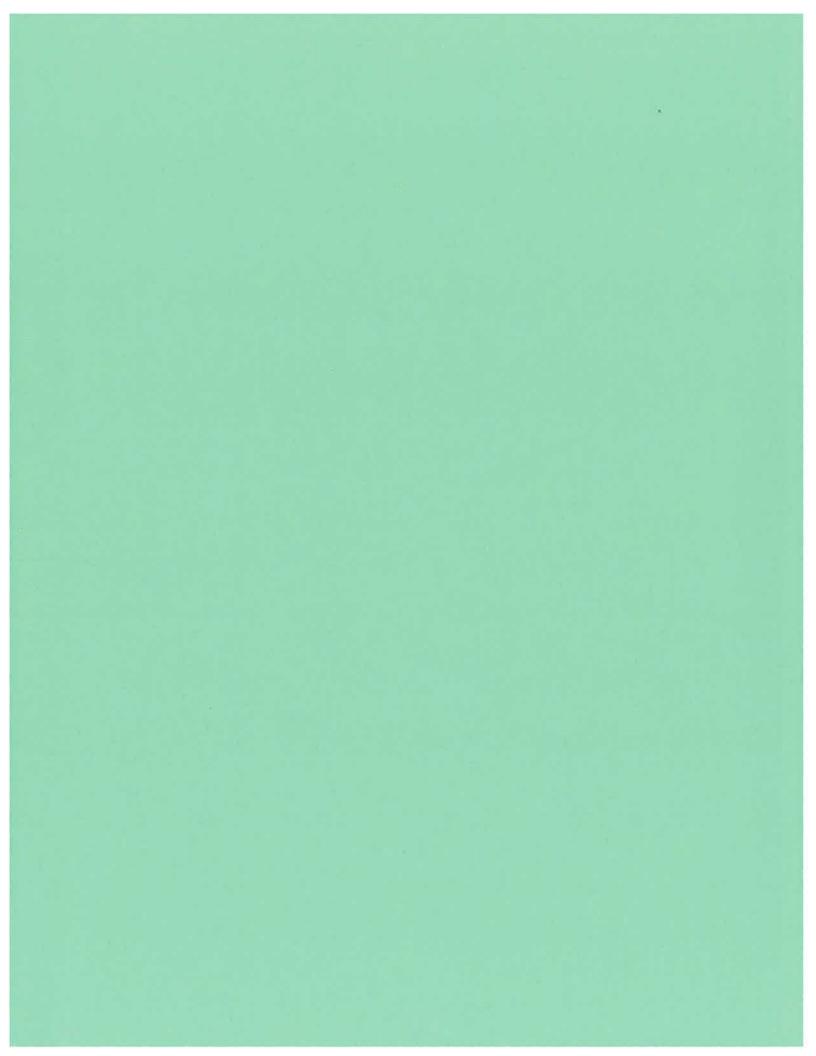
All items marked with † must be completed, and or required routing

t-	CHECK ONE: New Revi	iewed
†TITLE: ED Adult Sepsis Screening	Revised:	Major FiMinor
† Administrative AClinical AD	epartment Energena	7
TSUBMITTED BY: Jim Malickal Plan	MD. and Malcola	1 Johnson, UD
†NEW POLICY - REASON FOR SUBMISSION: ☐ Change in		CDPH TJC Other
†REVIEWED OR REVISED - SUMMARY OF POLICY / P.	ROCEDURE CHANGES: New	Gerra with
. Nurse sepsis Screening Too 1,	Phasician order	74010170
		and Minor
Changes to be added to	MATIBIOTICS /15+	
	MEETING DATE	APPROVAL
☐ Manager or Department Director [†]		
Medical Staff Department(s):		
	Time 20,2013	Approved
Cancer Committee CV Surgery Committee	June 20,2013	W/Minor changes
☐ Infection Control Committee ☐ IDP Committee		
☐ Medical Ethics Committee ☐ Patient Safety Committee ☐ Radiation Safety Committee ☐ Patient Safety Committee		
Respiratory/Critical Care/ED Committee		
Quality Improvement Team: EM Committee		
☐ EOC/Safety Committee ☐ Other:		
☐ Nursing Department:		
☐ Nursing Practice:		
Forms Committee (as applicable)		
☐ Administrative Policy Review Committee (APRC) [†]		
☐ Executive Leadership		
Medical Executive Committee (MEC) (as applicable)	July 8,2013	Approved
Board of Trustees (automatic from MEC) (as applicable)		

ED Adult Sepsis Screening and Orders

Nurse Sepsis Screen	ing Tool				
Initial Vital Signs					
A. Two or More	e Systemic Inflammatory R	Response Syndrome (SIRS)) Signs (check all present):		
☐ Temp > 101°F (38.3°C) or < 96.8°F (36°C) ☐ WBC > 12,000 or < 4,000 or > 10% bands					
□ HR >	90 beats/min	□RF	R > 20 breaths/min or PaC	O₂ < 32mmHg	
B. Suspected S	ource of Infection Likely to	Require IV Antibiotics and	Hospitalization:		
☐ Pulmo	onary 🔲 Urinary Trad	ct 🗆 Pelvic	☐ intra-Abdo	minai	
□ CNS	☐ Soft Tissue/	/Bone ☐ Unknown	☐ Other:		
Notification of Positive	Sepsis Screen				
if both boxes A & B are	checked, notify MD/PA in	mmediately to consider o	ordering sepsis panei & ir	nterventions:	
		s authorization by MD/PA. MD/PA; further evaluation r			
		Time			
Physician Orders	restal and the			1. Ur	ine Out
1. Order ED Sepsi	s Order Set: CBC, CMP, t	UA, Lactate, Urine Culture,	Biood Culture X 2, EKG, F	ortable CXR ND	0q4hrs c 2.Wha
2. Start continuous	s cardiac and pulse oximet	try monitoring. Give O2 at 2	2 Liters/min PRN O₂ sat ≤ 9		t using a-abdom
	erai iVs, <u>18 gauge or larg</u>	AND DESCRIPTION OF THE PERSON	Sputum culture, C-Reactive Pro	tein and coags Press	
4. insert Foley cath	eter. Record hourly unne	Chipac		susp	ected
4. Insert Foley catheter. Record hourly unne computed abdominal distension. 5. IV Fluids STAT:					
	Normal saline 1 Liter		s 🗆 Other:	-9181818181	(Ritterferior)
	us infusion: Normal sal	iine @mL/hr or R serum iactate ≥ 4: Norm		mL/hr	
		SBP (SBP) < 90 mmHg, so		•	
		atheter, CVP monitoring (≥			
Antibiotics (x 1 dose, the	en initiate Inpatient Sepsis orde	ers)			
Allergies:	Weig	ht (kg):			
☐ Pneumonia		☐ Abdominal	☐ Skin/Soft Tissue	☐ Meningitis	
☐ Ceftriaxone 1g IV☐ Ceftriaxone 2g IV☐	Choose One:	Choose One Regimen:	☐ Ceftriaxone 1gm IV	☐ Dexamethasone 10r IV (given before or with	
1	☐ Ceftriaxone 1g IV	☐ Ceftriaxone 1gm IV		dose of antibiotics)	
Azithromycin		AND	AND Vancomycin mg	AND	
500mg IV	OR If PCN Allergic	Metronidazole 500mg IV	(15mg/kg,max dose 2gm)	☐ Ceftriaxone 2g IV	
OR K BON All	☐ Aztreonam 2g IV	OR UE DON Allegation		AND	
If PCN Allergic ☐ Aztreonam 1g IV		IF PCN Allergic	OR IF PCN Allergic	☐ Vancomycin m (25mg/kg, max dose 2g	
_	OR	☐ Aztreonam 2g IV	☐ Clindamycin 900mg IV	IV	
AND Levofloxacin 750mg IV	0	AND Metronidazole 500mg IV	and ☐ Vancomycinmg	AND	
<u>OR</u>		<u>OR</u>	(15mg/kg,max dose 2gm)	☐ If age > 50 or immunocompromised gi	ive
			OR	Ampicillin 2g IV	

If at risk for MRS		If at risk for MRSA □ Vancomycin mg (25mg/kg, max dose 2gm) iV	0	
Other Orders:	Time	Physician Signature:		



APPROVAL ROUTING SHEET FOR POLICIES AND PROCEDURES

DOCTORS MEDICAL CENTER

All items marked with \dagger must be completed, and or required routing

TITLE: Deabetic Ketoacidoses	HECK ONE: New Revi	ewed
300,50	Revised: 🗆 N	1ajor Minor
	partment	,
†SUBMITTED BY: Herese & Colour,	Phaniacey Direc	her
†NEW POLICY - REASON FOR SUBMISSION: ☐ Change in L	\mathcal{O}	CDPH TJC Other
†reviewed or revised - summary of policy / pro Md Orders on Diah	ocedure changes: Lás Xetoacid	
	MEETING DATE	APPROVAL
☐ Manager or Department Director [†]		
☐ Medical Staff Department(s):		
Cancer Committee CV Surgery Committee Infection Control Committee IDP Committee Medical Ethics Committee Patient Safety Committee Radiation Safety Committee P&T Committee Respiratory/Critical Care/ED Committee Quality Improvement Team: EM Committee EOC/Safety Committee Other:	6/20/13	appwred
☐ Nursing Department:		27
☐ Nursing Practice:		
Forms Committee (as applicable)		
☐ Administrative Policy Review Committee (APRC) [†]		
Executive Leadership		
Medical Executive Committee (MEC) (as applicable)	7/8/13	approved
Board of Trustees (automatic from MEC) (as applicable)		

Height: Weight:		Allergies/Reactions:
DIABETIC KETOACIDOSIS	6/13	
San Pablo, CA 94806 MD ORDERS		Patient Sticker Here
DOCTORS MEDICAL CENTER 2000 Vale Road		

DIA	BETIC	KETOACI	OOSIS		6/13		-		
lei	ght:		Weight:_			Allergies/React			
		-	**These o	rders are not to b	e used in pati	ents with hyperosmo	lar coma***		
				Unit: Initiate DKA	-	ieet.			
2.	Stat La	abs: if not d CBC, CMI	one in the P, Amylase	Emergency depart e, ABG, Lipase, La	ment. ictate level, Ma	agnesium, Phosphoru	s. Acetone ar	nd Urine ketones	
3.	Routin	e Labs <u>:</u> BMP 2 ho BMP, Anid	urs after st on gap, Ma	at lab drawn x 1		hours until anion gap			у
4.	Blood	Glucose Te	sting: Fin	ger stick biood sug	ar testing stat	then, hourly or			
5.	Initial I	V Fluid Rep	lacement	(7 to 14 ml/kg/hr	depending on I	ovdration status)			
		Normal sa	line or			at			
				ml/hr x	hours				
6.	After in	itial IV repl	acement:	(average fluid loss	= 3-6 liters)				
				ood sugar greater t		250 mg/dl			
						Potassium Phosphai	te	mMol/L.	
•	Change	to D5/0.45	sodium ch	loride or	2	t a rate of	ml/hr when	hlood sugar less th	an
	250 mg	/dl						oloog sagai iess til	211
		Additive:		mEq/L otassium Phospha	ate i	Potassium Phosphat	e1	mMol/L.	
6.	Electro	lytes Repla							

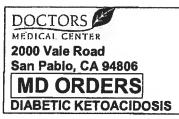
Potassium replacement- repeat serum potassium level 2 hours after last infusion

Current serum Potassium level	Use premixed KCL piggyback	
Between 3.0 to 4 mmol/L	KCL 10mEq/100 ml infused over 1 hour via pump x 2 doses.	
Below or equal to 3 mmol/L	KCL 10mEq/100 ml infused over 1 hour via pump x 4 doses.	

Current serum magnesium level	Total Magnesium replacement (in 100 ml 0.9%NaCl)
1.2 – 1.4 mg/dL	2 grams magnesium sulfate IV over 60 minutes
0.9 – 1.1 mg/dL	3 grams magnesium sulfate IV over 90 minutes

Phosphorus Replacement- repeat serum phosphorus level 2 hours after infusion is complete. Maximum recommended infusion rate is 7 mmol of phosphate per hour.

Current serum phosphorus level	Total phosphorus replacement (in 250 ml of 0.9%NaCl)
2 – 2.5 mg/dL	 If serum K[†] is BELOW or equal to 4.5 mEq/L, give 0.12 mmol/kg Potassium phosphate IV over 4 hours (max. dose 20 mmole). If serum K[†] is ABOVE 4.5 mEqI/L, give 0.12 mmol/kg Sodium phosphate IV over 4 hours (max dose 20 mmole).
1 – 1.9 mg/dL	 If serum K⁺ is BELOW or equal to 4.5 mEq/L, give 0.25 mmol/kg Potassium phosphate IV over 6 hours (max. dose 30 mmole). If serum K⁺ is ABOVE 4.5 mEq/L, give 0.25 mmol/kg Sodium phosphate IV over 6 hours (max. dose 30 mmole)



Patient Sticker Here

6/13

7. Insulin Infusion Algorithm: Adjust insulin infusion based upon blood glucose and algorithm below. Mix 125 units of regular insulin in 250 ml of normal saline (concentration = 0.5 units/ml).

Glucose Mg/dL	Initial insulin infusion ^Σ	1 st adjustment Infusion If blood sugar greater than 200 mg/dl x 3 hours ^v	2 nd adjustment infusion if blood sugar greater than 200 mg/dl x 3 hours
Greater than or = to 500	CALL physician and order stat BMP	CALL physician and order stat BMP	CALL physician and order stat BMP
401-499	5 units/hr (10ml/hr)	8 units/hr (16ml/hr)	10 units/hr (20ml/hr)
301-400	4 units/hr (8ml/hr)	5 units/hr (10ml/hr)	8 units/hr (16ml/hr)
201-300	3 units/hr (6ml/hr)	4 units/hr (8ml/hr)	6 units/hr (12 ml/hr)
151-200	2 units/hr (4ml/hr)	2 units/hr (4ml/hr)	3 units/hr (6ml/hr)
100-150	1 unit/hr (2ml/hr)	1 unit/hr (2ml/hr)	1 unit/hr (2ml/hr)
Less than/equal to 100	Hold Insulin infusion and call physician	Hold Insulin infusion and call physician	Hold Insulin infusion and call physician

Σ-If blood glucose remains greater than 200 for 3 consecutive hours at initial infusion, adjust rate based on last reading per 1st adjustment infusion column (do not add new rate with old rate).

If blood sugar remains above 200 for 3 consecutive readings at 2nd adjustment, contact MD for further orders.

Continue insulin infusion until ketoacidosis is controlled (anion gap of less than or equal to 13 mEq/L).

ANION GAP in mEq/L = serum sodium - (serum chloride + serum blcarbonate)

		Oomande ii	isami musion for 2 nours i	anter subcataneous insulin started.
8.	If an	nion gap is le	ess than or equal to 13 m	nEq/L:
	•			insulin subcutaneous (SC) 2 hours before discontinuing insulin infusion
	•	SC sliding : FORM	scale (once DKA resolved), HAVE PHYSICIAN COMPLÈTE SUBCUTANEOUS SLIDING SCALE INSULII
		☐ Mild SC	sliding scale insulin protoc	ol (regular insulin)
		☐ Moderate	e SC sliding scale insulin	protocol (regular insulin)
		☐ Intense S	SC sliding scale insulin pro	otocol (regular insulin)
	. Oth		ulin orders:	
10.				
	b.	Hourly vital s	igns, hourly input & output	minute to maintain saturation greater than or equal to 93%. t (document on DKA flow sheet), Foley catheter if needed. Call MD if
		•	pH less than 7.1, notify	physician for sodium bicarbonate replacement orders.
		•	O2 saturation less than	
		•	Anion gap rises on 2 cor	nsecutive calculations
		•	Urine output less than 3	0ml/hr or greater than total amount of IV fluid given

c. NPO. Advance to clear liquid diet, full liquids, and the controlled carbohydrate diet as tolerated.

d.

Bed rest.

Progress to chair as tolerated.

MAP less than 60 mm Hg

Physician Signature:		Date and Time:	
□ Read back Verified:	, RN	Date and Time:	
Nurse Noted:	_	Date and Time:	

V -If blood glucose remains greater than 200 for an additional 3 consecutive hours, adjust rate based on last reading per 2nd adjustment infusion column (do not add new rate with old rate).

APPROVAL ROUTING SHEET FOR POLICIES AND PROCEDURES

DOCTORS MEDICAL CENTER

All items marked with † must be completed, and or required routing

†TITLE: 07 Furosemide †	CHECK ONE: New Revie	wed ajor □Minor						
	epartment							
†SUBMITTED BY: Therese Hollser, 1	Pharmaey Directi	Y						
TNEW POLICY - REASON FOR SUBMISSION: ☐ Change in Law ☐ New Regulation: CMS CDPH TJC Other								
†REVIEWED OR REVISED - SUMMARY OF POLICY / PROCEDURE CHANGES: . Memo regarding Continuous Infuous IJ Furdamide / Bundtidine w/ celbunium.								
	MEETING DATE	APPROVAL						
☐ Manager or Department Director [†]								
☐ Medical Staff Department(s):								
Cancer Committee CV Surgery Committee Infection Control Committee IDP Committee Medical Ethics Committee Patient Safety Committee Radiation Safety Committee P&T Committee Respiratory/Critical Care/ED Committee Quality Improvement Team: EM Committee EOC/Safety Committee Other:	6/20/13	approvéd						
☐ Nursing Department:		*						
☐ Nursing Practice:								
Forms Committee (as applicable)								
☐ Administrative Policy Review Committee (APRC) [†]								
☐ Executive Leadership								
Medical Executive Committee (MEC) (as applicable)	7/8/13	approved						
Board of Trustees (automatic from MEC) (as applicable)								



DATE:

6/21/2013

TO:

DMC Medical Staff

FROM:

P&T committee R.Pagtalunan, MD

RE:

Continuous infusion of Furosemide/Bumetidine with Albumin

There is little to no data that indicates a continuous infusion of a loop diuretic (furosemide, bumetidine) plus albumin is more effective than a continuous infusion of a loop diuretic alone in patients with acute decompensated heart failure, Cirrhosis, or nephrotic syndrome¹². In the limited number of trials, patients had a serum albumin between 2-3. It is thought that patients with hypoalbuminemia are somewhat resistant to conventional diuretic therapy and that a mixture of furosemide and albumin may increase the delivery of furosemide to the kidney. Due to the conflicting or limited data, high cost of albumin and limited stability of the infusion (albumin is only good for 4 hours after opening) or lack of compatibility (bumetidine is not compatible in the same container as albumin), the P&T committee with input from Nephrology service has approved the following:

- The pharmacist will contact the prescriber of the above data.
- Pharmacy will only process Loop diuretic/albumin if the serum albumin is less than 2

Orders for loop diuretic/albumin in patients with a serum albumin above 2 will be substituted with a loop diuretic drip mixed in 250ml d5w. No albumin will be infused. A pharmacist written chart order will be provided.

 Orders for loop diuretic/albumin drip in patients with a serum albumin less than 2 will be processed in the following manner:

250ml 5% albumin infused over 4 hrs daily and the loop diuretic will be infused separately due to short stability and or incompatibility in albumin. A pharmacist written chart order will be provided.

¹ Effects of albumin/furosemIde mixtures on responses to furosemide in hypoalbuminemic patients. Chalasani N, Gorski JC, Horlander JC Sr, Craven R, Hoen H, Maya J, Brater DC J Am Soc Nephrol. 2001;12(5):1010.

² Coadministration of albumin and furosemide in patients with the nephrotic syndrome. Fliser D, Zurbrüggen I, Mutschler E, Bischoff I, Nussberger J, Franek E, Ritz E Kidney Int. 1999;55(2):629.

³ Uptodate.com



APPROVAL ROUTING SHEET FOR POLICIES AND PROCEDURES

DOCTORS MEDICAL CENTER

All items marked with † must be completed, and or required routing

(A ilian) ama (to							
tritical carl † CHECKONE: New Reviewed							
moulen infusion model	Revised: M	lajor Minor					
† Administrative Clinical Dep	partment						
†SUBMITTED BY: Therese Hallser, Shannacy Director							
TNEW POLICY - REASON FOR SUBMISSION: Change in Law New Regulation: CMS CDPH TJC Other							
TO DECT - ILLASON FOR SUBMISSION. II Change in Law II New Regulation. CMS CDFn 13C Other							
†REVIEWED OR REVISED - SUMMARY OF POLICY / PRO	OCEDURE CHANGES:	,					
Protocal de Centical C	Toro Daylin &	thuman.					
. Provocus on contract c	we onswere						
	MEETING DATE	APPROVAL					
☐ Manager or Department Director [†]							
☐ Medical Staff Department(s):							
☐ Cancer Committee ☐ CV Surgery Committee	}						
☐ Infection Control Committee ☐ IDP Committee							
Medical Ethics Committee Patient Safety Committee		0					
Radiation Safety Committee X P&T Committee Respiratory/Critical Care/ED Committee	6/20/13	approved					
Quality Improvement Team:							
EOC/Safety Committee Other:							
☐ Nursing Department:							
_							
☐ Nursing Practice:							
Forms Committee (as applicable)							
Administrative Bellev Barday Co. 144- (ABBOT							
☐ Administrative Policy Review Committee (APRC) [†]							
Executive Leadership							
Medical Executive Committee (MEC)	7/8/13	2 m 200 May 0 1					
(as applicable)	110/13	approved					
Board of Trustees (automatic from MEC)							
(as applicable)							

DOCTORS MEDICAL CENTER 2000 Vale Road San Pablo, CA 94806 MD ORDERS CRITICAL CARE INSULIN INFUSION PROTOCOL	6/13	Patient Sticker Here
Height: Weight:		Allergies/Reactions:

1. Goal: Blood Glucose = 120-150mg/dl

2. General Principles:

- a. This protocol applies only to patients in an ICU setting.
- b. This protocol does not apply to patients with diabetic ketoacidosis or hyperosmolar coma.
- The attending doctor must renew the protocol daily.
- d. Nursing will sign out that patient is on "Insulin Infusion Protocol" and the insulin drip is "Concentrated".
- e. Diabetic Patients: Start protocol
- f. Non- diabetic Patients: check blood glucose every 2 hours x 3. If blood glucose above 150mg/dl, start protocol
- g. Discontinue all other insulin coverage and oral anti-hyperglycemic agents. Do not add insulin to TPN or PPN.
- h. Use lab glucose when:
 - Hematocrit below 25 or above 60.
 - Discrepancy between laboratory and bedside above 30 mg/dl
- Mix a standard solution of 125 units of Regular (Human) insulin in 250 ml of NS. Use infusion pump in a dedicated IV line.

3. Bedside Glucose Monitoring:

- a. Check blood glucose on arrival to the critical care unit.
- b. Hourly blood glucose monitoring
 - Until stable at 120-150mg/dl x 3, then every 2 hours
 - If patient falls out of range, until blood glucose returns to goal range x 3, then every 2 hours
- c. Check blood glucose
 - With any dietary changes
 - · Any symptoms of hypoglycemia
 - Significant change in patient status or vital signs

4. Other Laboratory Monitoring:

- a. BMP, calcium and phosphorus every 24 hours during insulin infusion
- 5. Initial Infusion Rate (concentration: 1 unit = 2 ml):

Blood Glucose (mg/dl)	Infusion Rate (units/hr)
151-200	2 units = 4 ml
201-250	4 units = 8ml
251-300	5 units = 10ml
301-350	6 units = 12ml
Above 351	8 units = 16ml



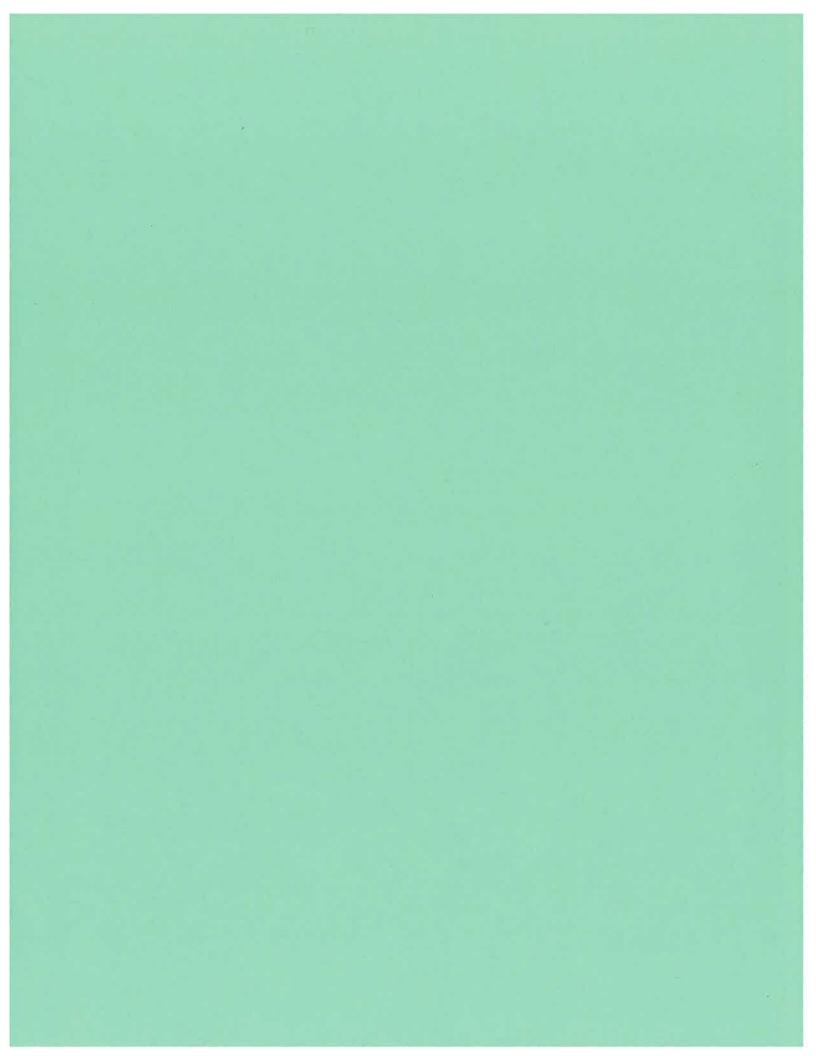
Nurse Noted:____

Patient Sticker Here

CRITICAL

		Blood Glucose (mg/dl)	Infusion Ra (units/hr)		Customized Infusion Rate
	ľ	Above 200	Increase by 1ur	/	(units/hr)
	ł	151-200	No change		
	Ì	120-150	Decrease by 1 ur		
	t	Below 120	Stop insulin o		<u> </u>
	I	Below/= 70	Follow Hypoglycemi		
	<u> </u>	Insulin Sensitivity (rour	nd off rate to a whole nur	mber\	
	_	Blood	Glucose	In Int	fusion Rate (units/hr)
		Fall abo	ove 50%	Decrease	50%; recheck glucose every
0	a. b. c.	Start D10W at 40 ml/hr Give 25 ml of D ₅₀ W IVF 60mg/dl.	nypoglycemia protocol or of for blood glucose below		INFUSION: ive 50 ml D ₅₀ W IVP for blood glu
9.	a. b. c. Not a. b. c.	Start D10W at 40 ml/hr Give 25 ml of D ₅₀ W IVF 60mg/dl. tify Dr Hypoglycemia occurs w Unable to reach blood of Change In diet, steroids	nypoglycemia protocol or if: or blood glucose belov if: when Insulin infusion is b glucose goal (120-150) li s, or another diabetes me		ive 50 ml D $_{50}$ W IVP for blood glu $_{ m c}$
9.	a. b. c. Not a. b.	Start D10W at 40 ml/hr Give 25 ml of D ₅₀ W IVF 60mg/dl. tify Dr Hypoglycemia occurs w Unable to reach blood of Change In diet, steroids	nypoglycemia protocol or of for blood glucose belov if: when Insulin infusion is b glucose goal (120-150) li		ive 50 ml D $_{50}$ W IVP for blood glu $_{ m c}$
	a. b. c. Not a. b. c. d. e.	Start D10W at 40 ml/hr Give 25 ml of D ₅₀ W IVF 60mg/dl. tify Dr Hypoglycemia occurs w Unable to reach blood of Change In diet, steroids Blood glucose is in range	nypoglycemia protocol or if: or blood glucose belov if: when Insulin infusion is b glucose goal (120-150) li s, or another diabetes me		ive 50 ml D $_{50}$ W IVP for blood glu $_{ m c}$
	a. b. c. Not a. b. c. d. e. IV F	Start D10W at 40 ml/hr Give 25 ml of D ₅₀ W IVF 60mg/dl. lify Dr. Hypoglycemia occurs w Unable to reach blood g Change In diet, steroids Blood glucose is in rang Patient is ready to eat. Fluids: Continue present IV Flu If blood glucose below/s	nypoglycemia protocol or if: or blood glucose belov if: when Insulin infusion is b glucose goal (120-150) li s, or another diabetes me ge (120-150) greater tha	elow 2 ml/hr in first 24 hours edication is stain 36 hours	ive 50 ml D ₅₀ W IVP for blood glud rted.
10.	a. b. c. h. c. d. e. iV F a. b. c.	Start D10W at 40 ml/hr Give 25 ml of D ₅₀ W IVF 60mg/dl. lify Dr. Hypoglycemia occurs w Unable to reach blood g Change In diet, steroids Blood glucose is in rang Patient is ready to eat. Fluids: Continue present IV Flu If blood glucose below/s	nypoglycemia protocol or	elow 2 ml/hr in first 24 hours edication is stain 36 hours	ive 50 ml D ₅₀ W IVP for blood glud rted.
10.	a. b. c. d. e. IV F a. b. c. Con a.	Start D10W at 40 ml/hr Give 25 ml of D ₅₀ W IVF 60mg/dl. lify Dr. Hypoglycemia occurs w Unable to reach blood g Change In diet, steroids Blood glucose is in rang Patient is ready to eat. fulds: Continue present IV Flu If blood glucose below/s Mix all infusions in 0.9% Iversion to SQ: Continue IV insulin for 2 Initial SQ insulin dose s SQ Insulin to start on:	nypoglycemia protocol or	elow 2 ml/hr n first 24 hours edication is stan 36 hours IV to D10W at aclst for comparato maintenance e 24 -hour infu	ive 50 ml D ₅₀ W IVP for blood glude. rted. 40 ml/hr tibility). e subcutaneous insulin sion rate
10.	a. b. c. d. e. IV F a. b. c. Con a. b. c.	Start D10W at 40 ml/hr Give 25 ml of D50W IVF 60mg/dl. lify Dr. Hypoglycemia occurs w Unable to reach blood g Change In diet, steroids Blood glucose is in rang Patient is ready to eat. lulds: Continue present IV Flu If blood glucose below/s Mix all infusions in 0.9% Iversion to SQ: Contlnue IV insulin for 2 Initial SQ insulin dose s SQ Insulin to start on: Please refer to SUBCU	nypoglycemia protocol or	elow 2 ml/hr in first 24 hours edication is stain 36 hours IV to D10W at acist for comparato maintenance e 24 -hour infu	ive 50 ml D ₅₀ W IVP for blood glu rted. 40 ml/hr tibility). e subcutaneous insulin sion rate ORDERS
10. 11.	a. b. c. d. e. iV F a. b. c. Con a. b. c.	Start D10W at 40 ml/hr Give 25 ml of D ₅₀ W IVF 60mg/dl. lify Dr. Hypoglycemia occurs w Unable to reach blood g Change In diet, steroids Blood glucose is in rang Patient is ready to eat. Fluids: Continue present IV Flu If blood glucose below/s Mix all infusions in 0.9% Iversion to SQ: Continue IV insulin for 2 Initial SQ insulin dose s SQ Insulin to start on: Please refer to SUBCU	nypoglycemia protocol or	elow 2 ml/hr in first 24 hours edication is stain 36 hours IV to D10W at aclst for compainto maintenance to maintenance e 24 -hour infu	ive 50 ml D ₅₀ W IVP for blood glu rted. 40 ml/hr tibility). e subcutaneous insulin sion rate

Date and Time: _____



Doctors Medical Center DEPARTMENT OF MEDICINE Request for Clinical Privileges – Internal Medicine

SCOPE OF SERVICES

The Department of Medicine/Family Practice provides comprehensive and continued non-surgical care and treatment for diseases and conditions generally in patients 18 years old through geriatrics. This care encompasses a broad spectrum of health services, ranging from preventive health care to the diagnosis and treatment of acute and chronic diseases. Sections included within the Department of Medicine/Family Practice are: Internal Medicine, Emergency Medicine (patients of all ages), Family Practice, Cardiology, Critical Care, Gastroenterology, Hematology/Oncology, Nephrology, Neurology, and Pulmonology. The Department of Medicine services are available 24 hours a day, 7 days per week.

CORE PRIVILEGES FORMAT

This delineation of privileges represents those most commonly performed within the specialty area and the scope of services provided. The privileges are described in the core privilege (or bundling) format, which, by necessity, is not a detailed list. Each bundle denotes a level of clinical expertise as defined by the department based on evidence of documented education, training and experience. It is assumed that other medical illnesses and problems may require medical management within the Practitioner's scope of care and commensurate with the qualifications of a Practitioner's medical licensure.

Procedures outside the scope of those listed for this department must be obtained on an individual basis through the appropriate department(s) of this facility, upon recommendation of the Chairman of the Department of Medicine/Family Practice.

STANDARDS FOR PRIVILEGES

Applicants need note that initial and reappointments to this department will be based on a system of performance appraisal. This performance appraisal will utilize information regarding clinical activity and from monitoring and evaluation activities.

HEALTH STATUS

Applicants must certify at time of initial appointment and reappointment, that there are no problems of health or mental status, which will interfere with the exercise of the clinical privileges requested.

OBSERVATION REQUIREMENTS

All provisional appointees shall undergo a period of observation to determine clinical/technical competence prior to the granting of privileges to independently perform requested procedures. Members of the staff requesting additional or new privileges are required to be proctored for such privileges. The terms and methods of proctoring are predetermined by each clinical department, however, procedures crossing departmental lines have uniform proctoring requirements.

MINIMUM THRESHOLD CRITERIA

In order to be eligible to request clinical privileges for both initial appointment and reappointment a practitioner must meet the following minimum threshold criteria:

Education: M.D. or D.O.

Minimum Formal Training: All applicants requesting privileges in *INTERNAL MEDICINE* must have successfully completed an Internal Medicine residency training program accredited by the Accreditation Council for Graduate Medical Education (ACGME) or the American Osteopathic Association (AOA) with documented evidence of active hospital-related practice for at least five years.

Required Clinical Experience: The applicant must be able to demonstrate current clinical competence and adequate volume of current experience with acceptable results. Applicants must provide evidence of a level of clinical expertise based on training, experience, judgment and demonstrated competence.

Documented Proficiency: Where indicated, the applicant must substantiate the request for privileges by providing evidence of current competence. This can be accomplished in one or more of the following ways:

- 1) a letter from the program director verifying training,
- 2) copies of proctor reports from another JCAHO accredited facility where the privileges have been granted.
- 3) attendance at continuing education programs that include both didactic and laboratory sessions or
- 4) procedure logs with outcomes to support privileges for procedures not attested to in postgraduate training.



DEPARTMENT OF MEDICINE Delineation of Privileges INTERNAL MEDICINE

1101 mill 177 mill 1912	DOME				
NAME:	CATEGORY:ACTIVECOURTESY				
	AFFILIATE ACTIVE				
	AFFILIATE ASSOCIATE				
I HEREBY REQUEST INITIAL PRIVILEGES	RENEWAL OF PRIVILEGES*				
Privileges in INTERNAL MEDICINE are granted for both clinical cognitive areas and specific procedures. All practitioners requesting privileges in INTERNAL MEDICINE must be have successfully completed an Internal Medicine residency training program accredited by the Accreditation Council for Graduate Medical Education (ACGME) or the American Osteopathic Association (AOA)					
Recent clinical experience is required of all applicants for appo	pintment and reappointment.				
Initial Appointment Requirement: Recent clinical experience for initial appointment is defined as having performed, within the last 24 months at least 20 admissions, procedures, or clinical consultations from a - hospital that is accredited by a recognized surveying body (e.g., Joint Commission, DNV) with acceptable outcomes.					
Reappointment Requirement: For reappointment, 10 admissions, procedures, or clinical consultations are required from a hospital that is accredited by a recognized surveying body (e.g., Joint Commission, DNV) with acceptable outcomes					
EMERGENCIES: It should be recognized that in the case of a medical staff or who has been granted clinical privileges is pehis/her license, to save a patient's life or to save a patient from granted.	ermitted to do everything possible within the scope of				
CONSULTATIONS: Consultations are expected to be obtained an unduly long period of time, when complications arise contemplated, that are different from privileges granted.					

<u>Instructions:</u> Request only those privileges for which you can provide documentation that you meet requirements and are currently clinically competent to perform. Please see attached "Criteria/Standards for Clinical Privileges" prior to completing this privilege delineation request. Check (\sqrt) the appropriate box for each procedure requested. It is recognized that in emergency situations, the best judgment of the practitioner may require the performance of procedures not requested. However, if under normal circumstances, you will not be performing a procedure/privilege, please leave it blank

"Write-In" privileges are not accepted

If you wish to request a privilege not listed on this form,
please contact the Medical Staff Office
for further instructions.

Dun atti a a a Nasa a		_	_	
Practitioner Name:		From:	To:	
	. = 2 12 = -11			
	CODE DDIVII ECEC			

ORE PRIVILEGES

CORE INTERNAL MEDICINE PRIVILEGES: AFFILIATE ASSOCIATE STAFF ONLY						ONLY										
-	Affiliate	Associate	Staff	shall	consist	of I	members	how	meet	all	of	the	criteria	for	membership	in
											-					

the Department of Medicine and Family Practice - Internal Medicine, but who may not meet the requirements for privileges and/or may not have the level of clinical activity to qualify for another staff category, but who appear likely to provide a distinct service to the Hospital, Medical Staff or Hospital patients.

- No Clinical Privileges granted
- Permitted access to the medical record for refer and follow purposes only
- May not write orders or perform any entries into the medical record
- May not admit and/or treat patients.

This Staff Category may not request "Additional or Advanced" privileges.

ı	CORE INTERNAL ME	DICINE PRIVILEGES	: AFFILIATE ACTIV	/E STAFF ONLY

Affiliate Active Staff shall consist of members who meet all of the criteria for membership in the Department of Medicine and Family Practice - Internal Medicine, but only maintain clinical privileges to perform histories and physicals. Affiliate Active Staff may also have medical record access.

- Perform History & Physical
- Permitted access to the medical record
- May not write orders or perform any entries into the medical record
- May not admit and/or treat patients.

This Staff Category may not request "Additional or Advanced" privileges.

CORE INTERNAL	. MEDICINE PRIV	ILEGES: <u>ACTIV</u>	E & COURT	ESY ONLY

Privileges include admission, evaluation, diagnosis, and provision of non-surgical treatment, including consultation, for adult patients (18 years and older) in need of care to treat general medical conditions. These privileges include the provision of consultation as well as the ordering of diagnostic studies and procedures related to the adult patient.

These privileges include, but are not limited to procedures such as those listed below. This list is a sampling of procedures included in the core and is not intended to be all-encompassing but reflective of the categories and/or types of core procedures.

Please CROSS OUT & INITIAL any privileges listed below that you are NOT requesting in this core set of Internal Medicine Privileges

PROCEDURE	INITIAL
Perform history and physical examination	
Arterial Puncture	
Arthrocentesis and joint injection, small joint	
Arthrocentesis and joint injection, large joint	
Therapeutic injection, large & small joint	
Aspiration of intra, subcutaneous cysts, furuncles, etc.	
Electrocardiogram (performance & bedside interpretation)	
Skin biopsy	
Suture minor lacerations	
Ventilator Management (less than 24 hours)	
Incision & Drainage of cysts, abscesses, etc	
Anoscopy	
Simple Excision Skin Lesion	

These privileges do not include "Additional or Advanced" privileges.

Practitioner Name:	From: To:

NON-CORE PRIVILEGES

Criteria: Practitioners requesting any of the follow Non-Core Privileges must have successfully completed an approved residency training program in Internal Medicine WITH document evidence of active hospital-related practice for at least five (5) years. In addition, for each privilege requested below, documentation of current training and or experience must be submitted for each new applicant, as well as, reappointment and professional staff members requesting a change in privileges.

	Dele	
R	Priv #	PRIVILEGES/PROCEDURES
	#1	Arterial line placement, percutaneous – New applicants must provide documented evidence of performance of at least six (6) procedures within the past 24-months without any quality of care issues.
		Reappointment - must provide documented evidence of performance of at least three (3) procedures within the past 24-months without any quality of care issues.
	40	Central venous line placement - New applicants must provide documented evidence of performance
	#2	of at least six (6) procedures within the past 24-months without any quality of care issues. **Reappointment - must provide documented evidence of performance of at least three (3) procedures
		within the past 24-months without any quality of care issues.
	#3	Diagnostic and therapeutic paracentesis - New applicants must provide documented evidence of performance of at least six (6) procedures within the past 24-months without any quality of care issues.
		Reappointment -must provide documented evidence of performance of at least three (3) procedures
		within the past 24-months without any quality of care issues.
	#4	Diagnostic therapeutic thoracentesis - New applicants must provide documented evidence of performance of at least six (6) procedures within the past 24-months without any quality of care issues.
		Reappointment -must provide documented evidence of performance of at least three (3) procedures
		within the past 24-months without any quality of care issues.
	#5	Lumbar puncture - New applicants must provide documented evidence of performance of at least six (6) procedures within the past 24-months without any quality of care issues. Reappointment -must
	"0	provide documented evidence of performance of at least three (3) procedures within the past 24-months
	,	without any quality of care issues.
	#6	Management of mechanical ventilator (less than 24-hours) - New applicants must provide
	#0	documented evidence of performance of at least six (6) procedures within the past 24-months without any quality of care issues. <i>Reappointment</i> -must provide documented evidence of performance of at
		least three (3) procedures within the past 24-months without any quality of care issues.
		TPN - New applicants must provide documented evidence of performance of at least ten (10)
	#7	procedures within the past 24-months without any quality of care issues. <i>Reappointment</i> -must
		provide documented evidence of performance of at least five (5) procedures within the past 24-months without any quality of care issues <u>and</u> a minimum of 2 cases reviewed by nephrologist at initial
		appointment.
	40	Flexible Sigmoidoscopy with Biopsy – New applicants must provide documented evidence of
	#8	performance of at least ten (10) procedures within the past 24-months without any quality of care issues. <i>Reappointment</i> -must provide documented evidence of performance of at least five (5)
		procedures within the past 24-months without any quality of care issues.
$\overline{}$		Bone Marrow Biopsy - New applicants must provide documented evidence of performance of at
	#9	least six (6) procedures within the past 24-months without any quality of care issues. Reappointment - must provide documented evidence of performance of at least three (3) procedures within the past 24-
		months without any quality of care issues.
		Intubation - New applicants must provide documented evidence of performance of at least eight (8)
	#10	procedures within the past 24-months without any quality of care issues. Reappointment -must provide documented evidence of performance of at least four (4) procedures within the past 24-months without
		any quality of care issues.

Practitioner Name:	To:
I certify that I have had the necessary education training and expe procedures requested. I agree to abide by the Medical Staff B Medical Staff and Hospital policies and procedures and will provincensure and/or practice.	ylaws Medical Staff Rules and Regulations and
Applicant Signature	Date

Page 5 of 6

BOARD OF DIRECTORS
(No Signature required – See meeting minutes)

	To: To: _
PRACTITIONER:	
RECOMMENDA1	TIONS
All privileges delineated have been individually considered Physician's specialty, licensure, specific training, experience recommendations.	l and have been recommended based upon ce, health status, current competence and p
APPLICANT MAY PERFORM PRIVILEGES AND I EXCEPTIONS/LIMITATIONS	PROCEDURES WITHOUT
APPLICANT MAY PERFORM PRIVILEGES AND I EXCEPTIONS/LIMITATIONS (Indicate the Privileg	PROCEDURES WITH THE FOLLOWING te # on page 4)
DIVISION CHIEF (if applicable)	DATE
	DATE
DIVISION CHIEF (if applicable) DEPARTMENT CHAIRMAN (Signature required) CREDENTIALS COMMITTEE (No Signature required – See meeting minutes)	

Meeting Date:_____



Doctors Medical Center DEPARTMENT OF MEDICINE Request for Clinical Privileges – Emergency Medicine SCOPE OF SERVICES

The Department of Internal Medicine provides comprehensive and continued non-surgical care and treatment for diseases and conditions generally in patients 18 years old through geriatrics. This care encompasses a broad spectrum of health services, ranging from preventive health care to the diagnosis and treatment of acute and chronic diseases. Subspecialties included within the Department of are: Internal Medicine, Emergency Medicine (patients of all ages), Family Practice, Cardiology, Critical Care, Gastroenterology, Hematology/Oncology, Nephrology, Neurology, and Pulmonology. The Department of Medicine services are available 24 hours a day, 7 days per week.

CORE PRIVILEGES FORMAT

This delineation of privileges represents those most commonly performed within the specialty area and the scope of services provided. The privileges are described in the core privilege (or bundling) format, which, by necessity, is not a detailed list. Each bundle denotes a level of clinical expertise as defined by the department based on evidence of documented education, training and experience. It is assumed that other medical illnesses and problems may require medical management within the Practitioner's scope of care and commensurate with the qualifications of a Practitioner's medical licensure.

Procedures outside the scope of those listed for this department must be obtained on an individual basis through the appropriate department(s) of this facility, upon recommendation of the Chairman of the Department of MEDICINE.

STANDARDS FOR PRIVILEGES

Applicants need note that initial and reappointments to this department will be based on a system of performance appraisal. This performance appraisal will utilize information regarding clinical activity and from monitoring and evaluation activities.

HEALTH STATUS

Applicants must certify at time of initial appointment and reappointment, that there are no problems of health or mental status, which will interfere with the exercise of the clinical privileges requested.

OBSERVATION REQUIREMENTS

All provisional appointees shall undergo a period of observation to determine clinical/technical competence prior to the granting of privileges to independently perform requested procedures. Members of the staff requesting additional or new privileges are required to be proctored for such privileges. The terms and methods of proctoring are predetermined by each clinical department; however, procedures crossing departmental lines have uniform proctoring requirements.

MINIMUM THRESHOLD CRITERIA - Emergency Medicine

In order to be eligible to request clinical privileges for both initial appointment and reappointment a practitioner must meet the following minimum threshold criteria:

Education: M.D. or D.O.

Minimum Formal Training: All applicants requesting privileges in EMERGENCY MEDICINE must have successfully completed an Emergency Medicine residency training program accredited by the Accreditation Council for Graduate Medical Education (ACGME) or the American Osteopathic Association (AOA) with documented evidence of active hospital-related practice for at least five years.

Required Clinical Experience: The applicant must be able to demonstrate current clinical competence and adequate volume of current experience with acceptable results. Applicants must provide evidence of a level of clinical expertise based on training, experience, judgment and demonstrated competence.

Documented Proficiency: Where indicated, the applicant must substantiate the request for privileges by providing evidence of current competence. This can be accomplished in one or more of the following ways:

- 1) a letter from the program director verifying training,
- 2) copies of proctor reports from another JCAHO accredited facility where the privileges have been granted,
- 3) attendance at continuing education programs that include both didactic and laboratory sessions or
- 4) procedure logs with outcomes to support privileges for procedures not attested to in postgraduate training.



DEPARTMENT OF MEDICINE Delineation of Privileges EMERGENCY MEDICINE

EWERGENCY	EDICINE
NAME:	CATEGORY: ACTIVE
	ADMINISTRATIVE
I HEREBY REQUEST INITIAL PRIVILEGES	RENEWAL OF PRIVILEGES*
Privileges in EMERGENCY MEDICINE are granted for both practitioners requesting privileges in EMERGENCY MED Emergency Medicine residency training program accredited Education (ACGME) or the American Osteopathic Association	ICINE must be have successfully completed an by the Accreditation Council for Graduate Medical
Recent clinical experience is required of all applicants for appoint Initial Appointment Requirement: Recent clinical experience for initial appointment is defined emergency room patients within the last 24 months from a body (e.g., Joint Commission, DNV) with acceptable outcomes	as having participated in the care of at least 300 nospital that is accredited by a recognized surveying
Reappointment Requirement: For reappointment, the applicant must provide documentation room patients within the past 24 months from a hospital that Joint Commission, DNV) with acceptable outcomes.	of participation in the care of at least 500 emergency is accredited by a recognized surveying body (e.g.,
EMERGENCIES: It should be recognized that in the case of a medical staff or who has been granted clinical privileges is pen his/her license, to save a patient's life or to save a patient from granted.	ermitted to do everything possible within the scope of
CONSULTATIONS: Consultations are expected to be obtained an unduly long period of time, when complications arise of contemplated, that are different from privileges granted.	ed when the diagnosis or management is in doubt for or when specialized treatments or procedures are

<u>Instructions:</u> Request only those privileges for which you can provide documentation that you meet requirements and are currently clinically competent to perform. Please see attached "Criteria/Standards for Clinical Privileges" prior to completing this privilege delineation request. Check (\sqrt) the appropriate box for each procedure requested. It is recognized that in emergency situations, the best judgment of the practitioner may require the performance of procedures not requested. However, if under normal circumstances, you will not be performing a procedure/privilege, please leave it blank.

"Write-In" privileges are not accepted

If you wish to request a privilege not listed on this form,
please contact the Medical Staff Office
for further instructions.

Practitioner Name:	From:	To:	
Practitioner Name:	 From:	To:	

CORE PRIVILEGES

CORE EMERGENCY MEDICINE PRIVILEGES: <u>ADMIMISTRATIVE</u> STAFF ONLY
Administrative Staff shall consist o members who meet all of the criteria for membership in the Department
of Medicine/ Family Practice and Emergency Medicine. Physicians in this Staff Category are practitioners
retained by the Hospital or Medical Staff to perform ongoing medical administrative activities.
No Clinical Brivilages granted

- No Clinical Privileges granted
- Permitted access to the medical record
- May not write orders or perform any entries into the medical record
- May not admit and/or treat patients.

This Staff Category may not request "Additional or Advanced" privileges.

CORE EMERGNECY MEDICINE PRIVILEGES: ACTIVE STAFFONLY

Privileges include assess, evaluate, diagnose and initially treat patient of all ages, who present in the ED with any symptom, illness, injury or condition. Provide immediate recognition, evaluation, care, stabilization, and disposition in response to acute illness and injury. Privileges include the performance of history and physical examinations, the ordering and interpretation of diagnostic studies including laboratory, diagnostic imaging and electrocardiographic examinations, and the administration of medications normally considered part of the practice of emergency medicine. Privileges do not include admitting privileges, long-term care of patients on an in-patient basis or the performance of scheduled elective procedures. The core privileges in this specialty include, but are not limited to procedures such as those listed below. This list is a sampling of procedures included in the core and is not intended to be all-encompassing but reflective of the categories and/or types of core procedures.

Please <u>CROSS OUT & INITIAL</u> <u>any privileges</u> listed below that you are <u>NOT requesting</u> in this core set of Internal Medicine Privileges

PROCEDURE	INITIAL
Airway Techniques:	
Airway Adjuncts	
Cricothyrotomy	
Foreign body removal	
 Intubation 	
Mechanical ventilation	
 Percutaneous transtracheal ventilation 	
Capnometry	
 Non-invasive ventilator management 	
Anesthesia:	
• Local	
Regional nerve block	
 Sedation-analgesia for procedures (in accordance with 	
hospital policy)	
Blood, Fluid, and Component Therapy Administration	
Genital/Urinary:	
 Bladder catheterization (foley catheter, suprapubic) 	
Testicular detorsion	
Diagnostic Procedures:	
 Anoscopy 	
 Arthrocentesis 	•
Cystourethrogram	
Lumbar Puncture	
Nasogastric tube	
Paracentesis	

ractitioner N	lame:	_ From:	To:
	Pericardiocentesis		
ľ	Peritoneal lavage		
	Slit lamp examination		
	Throacentesis		
	Tonometry		
	Compartment pressure measurement		
	Head and Neck:		
	Control of epistaxis		
	Laryngoscopy		
	Drainage of peritonsillar abscess		
	Removal of rust ring		
	Tooth stabilization		
	Lateral canthotomy		
	Hemodynamic Techniques:		
	Arterial catheter insertion		
	Central venous access		
	Intraosseous infusion		
	Peripheral venous cutdown		
	Obstetrics:		
	Delivery of newborn		
	Other Techniques:		
	Excision of thrombosed hemorrhoids		
-			
	Foreign body removal Costria layage		
	Gastric lavage		
	Gastrostomy tube replacement In circle (decine as a second		
1	Incision/drainage		
	Pain management (see anesthesia)		
ļ	Violent patient management/restraint		
į	Sexual assault examination		
	Trephination nails		
	Would closure techniques		
	Wound management		
	Escharotomy/burn management		
	Resuscitation:		
	Cardiopulmonary resuscitation (CPR)		
	Neonatal resuscitation		
	Skeletal Procedures:		
	 Fracture/dislocation immobilization techniques 		
	 Fracture/dislocation reduction techniques 		
	Spine immobilization techniques		
İ	Thoracic:		
	 Cardiac pacing (cutaneous, transvenous) 		
	Defibrillation/cardioversion		
	Thoracostomy		
	Thoracotomy		
	Universal Precautions		
1	Biohazard Decontamination		
1			

Practitio	ner Name:	From:	To:
five year current to		ccessfully completed an a of active hospital-related privilege requested below icant, as well as, profession of the control of	practice for at leas
#1	Emergency Bedside Ultrasound – must provide document accredited postgraduate training program in emergency metultrasound, or completion of the practice based pathway and recommendations for emergency ultrasound interpretation. minimum of 25 ultrasounds per core application with a range procedures). A minimum of 150-250 total cases is recommendations depending upon and reflective of the number of competency depending upon and reflective of the number of 15 ultrasound interpretations, reflective of the scope of privil Reappointment (Renewal of Privileges): Demonstrated of performance of at least 30 ultrasound interpretations, reflect the past 24 months based on results of ongoing professional ACEP Emergency Ultrasound Guidelines, 2008) General applications: trauma, pregnancy, abdominal aorta, adeep venous thrombosis, thoracic, soft-tissue/musculoskeles.	dicine that included training that meets ACE. This training should have e of 25-50 cases (10 for Usended for general emerger of applications being requested, in the particle of the scope of privilegal practice evaluation and cappendicitis, cardiac, bilia	ng in emergency P included a less guided not ultrasound sted. nance of at least st 12 months. vidence of the ges requested, in outcomes (Source:

I certify that I have had the necessary education training and experience to provide the treatment evaluation and/or procedures requested. I agree to abide by the Medical Staff Bylaws Medical Staff Rules and Regulations and Medical Staff and Hospital policies and procedures and will provide only those services within the scope of my licensure and/or practice.

Date

Approved by Governing Board:

Applicant Signature

RECOMMEND	ATIONS
All privileges delineated have been individually consider Physician's specialty, licensure, specific training, experie recommendations.	red and have been recommended based upon the ence, health status, current competence and peer
APPLICANT MAY PERFORM PRIVILEGES AND EXCEPTIONS/LIMITATIONS	D PROCEDURES WITHOUT
APPLICANT MAY PERFORM PRIVILEGES AND EXCEPTIONS/LIMITATIONS (indicate the Privileges)	D PROCEDURES WITH THE FOLLOWING lege # on page 5):
DIVISION CHIEF (if applicable)	DATE
DEPARTMENT CHAIRMAN SIGNATURE REQUIRED	DATE
CREDENTIALS COMMITTEE (No Signature required – See meeting minutes)	Meeting Date:
MEDICAL EXECUTIVE COMMITTEE (No Signature required – See meeting minutes)	Meeting Date:
APPROVA	AL
BOARD OF DIRECTORS (No Signature required – See meeting minutes)	Meeting Date



MEDICAL STAFF COMMITTEE	
RECOMMENDATIONS	DATE
CREDENTIALS COMMITTEE	June 27, 2013
MEDICAL EXECUTIVE COMMITTEE	July 8, 2013
BOARD OF DIRECTORS APPROVAL	July 24, 2013

DOCTORS MEDICAL CENTER CREDENTIALS REPORT JUNE 2013

REAPPOINTMENTS

The following practitioners have applied for reappointment to the Medical Staff. This summary includes factors that determine membership; licensure, DEA, professional liability insurance, required certifications (if applicable), etc. Qualitative/quantitative factor, developed through on-going professional performance evaluation, include peer review, quality performance, clinical activity, privileges, competence, technical skills, behavior, health, medical records, blood review, medication usage, litigation history, utilization and continuity of care. Membership requirements are met, unless specified below.

	Specified below.	ip requirements are met,	unless specified below.	
NAME	DEPARTMENT/SPECIAL TY	CATEGORY	REAPPOINTMENT TERM	RECOMMENDATION
Akbar, Jamila, MD	Med./Family Practice/Internal Medicine	Active	08/09/13 - 06/30/15	Approval
Block, Donald, MD	Med./Family Practice/Nephrology	Courtesy	08/09/13 - 06/30/15	Approval
Bruch, Herman, MD	Med./Family Practice/Pulmonary Medicine	Active	08/09/13 - 06/30/15	Approval
Costello, Patrick, MD	Med./Family Practice/HBO	Active	08/25/13 - 07/31/15	Approval
Dang, Tuan, DO	Med./Family Practice/Internal Medicine	Active	08/25/13 - 07/31/15	Approval
Drasin, T. Eric, MD	Med./Family Practice/Radiology	Courtesy	08/25/13 - 07/31/15	Approval
Lee, Christopher, MD	Med./Family Practice/Radiology	Active	08/25/13 – 07/31/15	Approval
Maung, Kyaw, Kyaw, MD	Med./Family Practice/Internal Medicine	Active	08/09/13 - 06/30/15	Approval
Morford, Michael, MD	Med./Family Practice/Family Practice	Affiliate Active	08/25/13 - 07/31/15	Approval

Park, Jacqueline, MD	Med./Family Practice/Gastroenterology	Active	08/25/13 - 07/31/15	Approval	
Thakur, Dineshkumar, MD	Med./Family Practice/Cardiology	Active	08/25/13 - 07/31/15	Approval	Τ
Shetti, Madhu, MD	Med./Family Practice/Radiation Oncology	Active	08/09/13 - 06/30/15	Approval	T
Cogen, Lorna, MD	Surgery/General Surgery	Active	08/09/13 - 06/30/15	Approval	T
Mampalam, Thomas, MD	Surgery/Neurosurgery	Active	08/25/13 - 07/31/15	Approval	T
Mbanugo, Collin, MD	Surgery/General Surgery	Active	08/25/13 - 07/31/15	Approval	1
Wren, David, MD	Surgery/Orthopedic	Active	08/25/13 - 07/31/15	Approval	-
	VOLUNTARY RESIGNATIONS	SIGNATIONS			1
NAME	DEPARTMENT/SPECIALTY		EFFECTIVE DATE		
Barnes, Paul Thomas, PA	Medicine/Physician Assistant (ER)		April 1st, 2013		1
Hsu, Jonathan, MD	Medicine/Cardiology		April 1st , 2013		Τ
Jacka, Ciaran, DPM	Surgery/Podiatry		April 1st , 2013		Т
Lee, chi Keung, MD	Surgery/Urology		April 1st , 2013		Ī
Liem, LionG, MD	Medicine/Family Practice		April 1st , 2013		T
Pienky, Andrew, MD	Surgery/Urology		April 1st , 2013		T
Piser, Joel, MD	Surgery/Urology		April 1st , 2013		Т
Tracy, Martha, MD	Medicine/Oncology		April 1st , 2013		T
Wexler, Ann, MD	Medicine/Oncology		April 1st , 2013		7
Wieder, Jeffre, MD	Surgery/Urology		April 1st , 2013		
Niles, Gabriel, MD	Medicine/Internal Medicine		April 1st , 2013		_
Shratter, lee, MD	Medicine/Radiology		April 1st , 2013		Τ
Sandler, Maurice, MD	Surgery/Urology		April 1st , 2013		1
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