

<u>N Series</u> BEDSIDE MONITOR GUIDELINE

This document is a guideline only to be used as an aid to comprehensive Inservice training.

NAME:		
HOSPITAL:		
DATE:		

		Trainee's Initials
A. OV	ERVIEW	
1	Locate ON/OFF button	
2	Locate communication ports. How does the clinician know he/she is communicating to the Distributive Monitoring System	
3	Locate A/C connection	
4	Load recorder paper/printer paper	
5	 Discuss a. Module insertion into monitor and Satellite Module Rack b. Dock tethering to the monitor c. Module options 	
6	Locate ECG, NIBP, SPO2, and Temp. connection ports	
7	Discuss Touch screen function. Discuss rotating screen function (N19/N22)	
8	 Discuss quick key buttons a. How can a clinician see more than one row of quick keys? b. What quick keys remain on the display at all times? 	
9	How does a clinician exit a menu?	
1	0. Locate patient size, date and time	

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B. BASIC FUNCTIO	DNS	
1. Attach ECG,	NIBP, and SPO2 probe	
2. ECG a. Discuss e b. Change L c. Enhance d. Discuss M e. Display a f. Start and	electrode prep and placement ead from II to I the pacemaker pulse/spike Minimum QRS Threshold full or half screen of ECG stop a recording of ECG*	
3. ARRHYTHMIA a. Discuss of b. Where are c. What lead detection? d. Enable le e. Adjust the	A* default arrhythmia setting e arrhythmia messages displayed? ds are used for arrhythmia analysis and heart rate ? thal arrhythmias only. Can lethal arrhythmias be turned off? e following settings:	
i. Asyste ii. Vtach iii. Turn o iv. Select f. Discuss th	to 6 PVC/110bpm on Bigeminy alarm and assign a prompt priority t VFib to automatically record/print he relearn process	
4. SPO2 a. Discuss p b. Discuss th c. Discuss th d. Discuss H e. Discuss e	placement of sensor he difference between the DeSat and Low SpO2 alarm he NIBP Simul feature IR vs Pulse Rate differentiation in HR tile mabling/disabling beep tone	
 5. NON-INVASI a. Discuss p b. Set BP in c. Start/Stop d. Suspend e. Locate the f. Activate the g. Set the fo i. 5 min ii. 15 mi iii. 30 mi h. View tabu 	VE BLOOD PRESSURE (NIBP) proper cuff size terval for every 10 minutes o NIBP cuff the NIBP interval e last several NIBP measurements he end measurement tone. Explain this feature llowing NIBP sequence: utes for 15 minutes nutes for 1 hour nutes for 1 hour nutes for 1 hour	
6. RESPIRATION a. Locate re b. Respiration c. Turn ECG d. Discuss a be used?	NS spiratory rate display ons are obtained from what sources? Frespiratory monitoring off* auto vs. manual detection mode. When might this function	

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7.	TEMPERATURE	
	a. Locate temperature	
	b. Change Temperature label to Tcore	
8.	ALARMS	
	a. Change high HR limit to 130 bpm	
	b. Change low SpO2 limit to 87% and change to a high priority alarm	
	c. Turn on RR alarms and set the low RR limit to 5	
	d. How does a clinician know if an alarm is turned off?	
	e. Discuss the difference between alarm pause/audio pause and alarm	
	naused? What alarms are excluded?	
	f. Extend Alarm/Audio Pause*	
	g. Discuss high, medium, low, and prompt priority alarm	
	notifications	
	h. Discuss technical alarms	
	i. Discuss latched alarms including what alarms are latched and what	
	is required to acknowledge a latched alarm?	
9.	Change patient size from Adult to Pediatric. Once patient is	
	discharged does it remain in Pediatric?	
10.	Enter the following patient information:	
	a. Jane Doe h Height: 5'7''	
	c. Weight: 140 lbs.	
	d. ID: 68924	
	e. Bed 13A*	
12.	The patient is being removed from the monitor for Surgery	
	a. Suspend monitoring and enter Standby location	
	b. Resume monitoring function	
13.	What is the difference between discharge and standby?	
14.	Discuss transferring a patient using the main module.	
	a. What data is transferred to the monitor?	
	b. What data is transferred to the Workstation	
	c. How does a clinician know when the transport monitor has left the	
	monitor (host)?	
15.	Perform the following functions in Tabular trends:	
	a. Adjust Tabular trends to display only when a NIBP measurement is	
	ODTAINED	
	 Aujust trends to display every 50 minutes Record/print trends for the last 1 hour 	
	d How many trends are stored? How are they cleared?	

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16.	How can older waveform data be viewed? a. Scroll back 1 minute in time and print the strip. b. Save Lead II, V Lead (5 lead wire set), c. Save a full disclosure strip with a note that Dr. was notified	
17.	Select and print a. A full disclosure event b. An alarm event	
18.	Adjust and discuss the following views on the main display: a. Big numerics b. Minitrends c. EWS	
18.	Discharge the patient	
19.	Does the room/bed number clear upon discharge?	
C. ADV	ANCE FUNCTIONS	
1.	 INVASIVE BLOOD PRESSURES (IBP1-8) * a. Discuss invasive blood pressure monitoring setup b. Zero an invasive line c. Change the label from P1 to ART d. Discuss what happens when an invasive is labeled with a label already in use (i.e. changing ART to CVP for P1 when P2 is already labeled CVP) e. Change the scale to 0 –240 f. Change the numeric layout to show the Mean as the most prominent number g. Discuss overlapping Invasive Blood Pressures on main screen 	
2.	 CO2* a. Discuss CO2 setup: sample line and water trap if applicable b. Change the CO2 scale to 0 to 60 c. Change the sweep speed to 12.5 mm/s d. Discuss water trap maintenance/replacement 	
3.	 ST* a. Enable ST analysis. How does the clinician know it is enabled? b. How many ECG leads are being analyzed? c. Adjust ISO and ST points d. Adjust the ST alarm on Lead II to 2mm/.2mV and -2mm/.2mV 	
4.	QT/QTc* a. Enable QT/QTc analysis b. Select all leads for analysis c. Change QTc formula d. Adjust High QTc alarm limit to 500ms	

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5.	12-Lead ECG Analysis*			
	a. Discuss ECG electrode prep and placement			
	b. Enter additional information:			
	I. Age: 75			
	II. Drug. Diuletics			
	i Enter the 12 Lead Order number			
	d. View and Print a 12-Lead Report			
	e. Review historical 12 Lead Reports			
6.	ScVO2*			
	a. Discuss setup for ScVO2 monitoring			
	b. Discuss ScVO2 calibration			
7.	CO*			
	a. Set Comp constant to 0.608			
	 Discuss now to perform a CO and accept an average Access the hemodynamic calculations screen 			
0				
0.	a Discuss interface with CCO device			
	b. Change primary parameter value to CCI			
	c. Change secondary parameters to SVR, SVRI, EDV, SV			
9.	EEG*			
_	a. Discuss EEG set up and electrode placement			
	b. Start a manual sensor check then set the auto sensor check to 30			
	minutes			
	c. Print EEG waveform			
10	. rSO2*			
	a. Discuss rSO2 set up and sensor placement			
	b. Label rSO2-1 L and rSO2-2 R			
	 Discuss setting the baseline Set the displayed parameters to show baseline variance 			
	d. Oet the displayed parameters to show baseline variance			
11	. NMT*			
	a. Discuss set up and electrode placement			
	D. DISCUSS CAIIDFAILOFF C. Change the measurement mode to Train of Four (TOF)			
	d Set NMT measurement interval to 5 minutes			
12	12. ANESTHETIC AGENTS (AG)*			
	a. Discuss anesthetic agent monitoring setup			
	b. What agents can the monitor identify?			
	c. Adjust the agent scale to 0 -15%			

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D. OTHER	FUNCTIONS	
1. Do a. b. c. d. e.	ose Calculation function Enter a weight of 160 pounds Select the drug "Dopamine" Enter a dosage of 5 mcgs/kg/min How many cc/hr is this? Print titration table	
2. He a. b.	modynamic Calculation Discuss the auto-entering of parameter information Enter/Adjust the following information: i. Weight: 140 lbs ii. CVP: 6mmHg iii. Calculate and print Hemodynamic profile	
3. Re a. b. c. d.	emote View screen Select three additional monitors to view and place in a main screen tile Display Lead II and the SPO2 waveform from a remote monitor Discuss silencing an alarm on a remote patient* What do the following bed icons mean on the remote monitors? i. Red ii. Yellow	
4. Dis	scuss interfacing the N-Series monitor with: a. Ventilator b. Infusion pump c. Discuss what digital/waveform information is displayed	
5. Dis a. b. c. d. e.	scuss available Clinical Assistive Applications Calculate a Glasgow Coma Score (GCS) Calculate an Early Warning Score (EWS) and set auto scoring to NIBP HemoSight* i. Discuss interfacing device required ii. Discuss Physiology Graphics SepsisSight i. Calculate a qSOFA and SOFA score Print an ECG 24 Summary	
6. Se a. b.	condary display* Discuss interaction with secondary display Discuss mouse functionality	
E. MAINTE	ENANCE	
1. Adj a. 2. Dis	just Date/Time Discuss daylight saving time consideration scuss approved cleaning agents	