mindray™
NORTH AMERICA

DPM 6 and 7™
BEDSIDE MONITOR GUIDELINE

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

NAME: _____

HOSPITAL: _____

DATE : _____

VALIDATOR: _____

	Performed	Not Performed	Not Applicable
A. OVERVIEW			
1. Locate ON/OFF button			
2. Locate communication ports. How does the clinician know he/she is communicating to the Panorama Central Station?			
3. Locate A/C connection			
4. Load recorder paper/printer paper			
5. Discuss a. Module insertion into monitor and Satellite Module Rack b. Locking/unlocking c. Multiparameter module (MPM) d. Module options			
6. Locate ECG, NIBP, SPO2, and Temp. connection ports in MPM			
7. Discuss Touch screen and Navigator knob function			
8. Discuss hard and quick key buttons a. How can a clinician select a quick key not displayed? b. What quick keys remain on the display at all times?			
9. How does a clinician exit a menu?			
10. Locate patient size, date and time			

* Optional

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B. BASIC FUNCTIONS			
1. Attach ECG, NIBP, and SPO2 probe			
2. ECG a. Discuss electrode prep and placement b. Change Lead from II to I c. Change leads to I and V (if using a 5 lead cable) d. Enhance the pacemaker pulse/spike? e. Display a full or half screen of ECG f. Start a recording of ECG g. Stop the recording			
3. ARRHYTHMIA* a. Discuss default arrhythmia setting b. Where are arrhythmia messages displayed? c. What leads are used for arrhythmia analysis and heart rate detection? d. Can lethal arrhythmias be disabled? e. Enable lethal arrhythmias only f. Adjust the following settings: 1. Asystole to 4 seconds 2. Vtach to 6 PVC/110bpm 3. Turn on Bigeminy alarm and assign a low priority 4. Select VFib to automatically record g. Acknowledge a lethal arrhythmia h. Discuss the relearn process			
4. SPO2 a. Discuss placement of sensor b. Demonstrate disposable sensor placement c. Discuss the difference between the DeSat and Low SpO2 alarm d. Discuss the NIBP Simul feature			
5. NON-INVASIVE BLOOD PRESSURE (NIBP) a. Discuss proper cuff size b. Set BP interval for every 10 minutes c. Stop the NIBP cuff from inflating d. Suspend the NIBP interval e. Locate NIBP display f. Locate the last several NIBP measurements			

* Optional

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6. RESPIRATIONS a. Locate respiratory rate display b. Respirations are obtained from what sources? c. Turn respiratory monitoring off d. Discuss auto vs. manual detection mode. When might this function be used?			
7. TEMPERATURE a. Locate temperature port and display tile b. What series of probes can be used?			
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 and alarm silence including icon difference. How long is the alarm silenced or paused? f. Discuss high, medium, and low priority alarm notifications g. Discuss technical alarms h. Discuss latched alarms including what alarms are latched and what must be done to acknowledge a latched alarm?			
9. Change patient size from Adult to Pediatric			
10. Admit a patient to the DPM monitor and a. The Panorama Central Station b. The DPM Central Station			
11. Discuss two ways to enter first name and last name			
12. The patient is being removed from the monitor for a test a. What quick button is pressed to suspend monitoring functions? b. Resume monitoring function			
13. What is the difference between discharge and standby?			

* Optional

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14. Adjust SPO2 color to yellow and NIBP color to purple. What happens upon discharge?			
15. Mark an event. Display and print the marked event			
16. Perform the following functions in Tabular trends: a. Adjust Tabular trends to display only when a NIBP measurement is obtained b. Adjust trends to display every 30 minutes c. Record/print trends for the last 1 hour d. How many trends are stored? How are they cleared?			
17. How can older waveform data be viewed ? Scroll back 1 minute in time and record the strip. Save Lead II, V Lead (5 lead wire set), and Pleth waveforms			
18. Adjust and discuss the following views on the main display: a. 7 Leads of ECG on the display (5 lead wire set) b. Large numerics displaying ECG (top left), SpO2/PR (top right), NIBP (lower left), and CO2 or RR (lower right) c. Minitrends with waveforms			
19. Discharge a patient from a. The Panorama Central Station and bedside monitor b. The DPM Central Station and bedside monitor			
20. Does the room number clear upon discharge? Does the patient size return to Adult once the patient is discharged?			
C. ADVANCE 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			

* Optional

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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. Adjust the recorder to print Lead II and the invasive waveform			
2. CO2* a. Discuss disposable CO2 accessories b. Setup up for an intubated patient c. Setup for a non-intubated patient d. Change the CO2 scale to 0 to 60 e. Change the sweep speed to 12.5 mm/s f. Adjust O2 compensation to 40% (DPM)			
3. ANESTHETIC AGENTS (AG)* a. Discuss anesthetic agent monitoring setup b. What agents can the monitor identify? c. Adjust the agent scale to 0 -15%			
4. 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			
5. IMPEDENCE CARDIOGRAPHY (ICG)* a. Discuss setup and placement of ICG sensors b. Enter 80 kg/176lbs c. Enter 178 cm/70 in d. Adjust averaging to 60 beats e. Adjust display to show CO, SVI and SVR f. Adjust recorder to print Lead II and ICG waveform			
6. BISPECTRAL INDEX (BIS)* a. Discuss setup and placement for BIS monitoring b. Connect BISx module to the patient interface cable and BIS sensor c. Perform Sensor Check d. Display BIS EEG waveform and adjust the scale to 200 uV			

* Optional

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e. Display BIS Trends and adjust the scale to 30 minutes f. Print BIS numeric values for the past hour			
7. RESPIRATORY MECHANICS (RM)* a. Discuss RM monitoring setup b. Connect flow sensor to the RM connector on the RM module c. Locate Flow, Vol and/or Paw waveform d. Verify the correct sensor type (i.e. reusable, disposable) e. Calibrate the flow sensor f. Perform a zero calibration g. Adjust the scale on the Paw waveform to 40 h. Display Flow-Volume loop i. Display Pressure-Volume loop j. Enable reference loop k. Save two reference loops l. Record parameters of a saved loop			
D. OTHER FUNCTIONS			
1. Open the Dose Calculation function a. Enter a weight of 160 pounds b. Select the drug "Dopamine" c. Enter a dosage of 5 mcgs/kg/min d. How many cc/hr is this? e. Print titration table			
2. Open the Hemodynamic Calculation a. Discuss the auto-entering of parameter information b. Enter/Adjust the following information: 1. Weight: 140 lbs 2. CVP: 6mmHg 3. Calculate and print Hemodynamic profile			
3. Open the View Other screen a. Select three monitor to view in addition to the current patient b. How can a clinician scroll to any of the three monitors? c. Display Lead II and the SPO2 waveform on a remote monitor d. Discuss silencing an alarm on a remote patient e. What do the following bed icons mean on the remote monitors?			

* Optional

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1. Red 2. Yellow 3. Blue 4. Gray			
E. MAINTENANCE			
1. Date/Time Adjustment a. Adjust the date and time b. Discuss daylight saving time consideration			

* Optional