

# MEDICAL EQUIPMENT RECOMMENDATIONS CHART

## MEDICAL CENTER SPECIFIC - ACEP 2018

The specific medical needs of a cruise ship are dependent on variables such as: ship size, itinerary, anticipated patient mix, anticipated number of patients' visits, etc. These factors may modify the applicability of these guidelines especially with regards to staffing, medications, equipment and supplies. It is also recognized that due to the remote itineraries and complex logistic challenges specific to cruise ship medicine, emergency situations can periodically and temporarily disrupt the full provision of staffing, equipment and supplies as described in these guidelines.

\*This includes the complexity for Covid 19 and all contagious infections.

\*All equipment needs to be serviced annually

	CLIA/ACEP	WHO	USCG	IAATO	NMA	COVID SPECIFIC REQUIREMENTS	BRAND EXAMPLES
<b>BASIC EQUIPMENT</b> .....							
Vital Signs Monitor (BP/Oxygen Saturation/Pulse)	✓	✓		✓	✓		
Sphygmomanometers	✓			✓	✓		
Stethoscope	✓			✓	✓		
Thermoscan (including Core/Rectal Temperature Capabilities)	✓			✓		✓	Braun Tympanic
Thermascan - Non Touch						Daily Temperature Check	Braun Non-Touch or Similar
Infrared Thermoscan							
Pulse Oximeter	✓	✓		✓		Embarkation Screening	
Lockable Refrigerator			✓				
Refrigerator and Freezer	✓				✓		

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	CLIA/A CEP	WHO	USCG	IAATO	NMA	COVID SPECIFIC REQUIREMENTS	BRAND EXAMPLES
Breathalyzer - Alcohol			✓				
Beds (ICU/Ward) - Electronic/Manual	✓				✓	Consider Upgrading Beds to ICU Grade	
<b>RESPIRATORY / VENTILATOR</b> .....							
Airway Supplies With Equipment: ET & Alternative Airways Measures	✓	✓		✓	✓	✓	
Laryngoscopes	✓	✓		✓	✓	✓	
Surgical Airways Capability	✓			✓	✓	✓	
Suction Equipment (Portable)	✓	✓		✓	✓	Additional for Mobile Units	
Suction Inline							
Nebulizer Capability	✓			✓	✓	✓	
Ventilator (Invasive/CPAP)	✓	✓		✓	✓	Consider Additional Ventilators in Accordance With Itinerary	

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CPAP Machines							Resmed <a href="https://www.resmed.com/en-us/sleep-apnea/sleep-blog/what-is-vpap-is-it-different-than-apap-and-cpap/">https://www.resmed.com/en-us/sleep-apnea/sleep-blog/what-is-vpap-is-it-different-than-apap-and-cpap/</a>
End Tidal CO <sub>2</sub> /Waveform Capnography		✓		✓			<a href="https://www.masimo.com/technology/ventilation-and-respiration/capnography/">https://www.masimo.com/technology/ventilation-and-respiration/capnography/</a>
Video Laryngoscope						A Very Useful and Effective Way to Intubate	STORZ CMAC or Medtronic
Peak Flow Meter				✓			
Spacer				✓			
Flow Regulator (Splitter)		✓					
Flowmeter - Thorpe Tube		✓			✓		
Humidifier, Non-Heated		✓					

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<b>OXYGEN</b> ..... Oxygen Tanks (including Portable Tanks ≤ 5 Liters) and At Least One Oxygen Concentrator and a Sufficient Number of Flow Regulators.	✓	✓	✓	✓	✓		
Oxygen Concentrator 5/10 L	✓	✓		✓		Additional When Setting Up Additional Ward for Medical Center. Below Oxygen Generator Additional Option	
Oxygen Generator - 40.4 L						Self Sustainable Units	Oxyplus
Oxygen Generator (10, 5 and 2 L)						Self Sustainable Units	Ifill Stations/Phillips
<b>CARDIAC</b> ..... At least Two Cardiac Monitors	✓				✓	All Beds to Have Cardiac or Vital Sign Monitoring	
Central Monitoring Devices							Phillips / Mindray
At Least Two Defibrillators, One of Which Should Be a Portable Automated External Defibrillator (AED).	✓				✓		



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External Cardiac Pacing Capability	✓					In the Event Where Defibrillators Do Not Have Pacing Capabilities	
Electrocardiograph (EKG) Capability	✓						
Electronic Infusion Capability	✓					Additional 2 Units for All ICU Beds	
<b>TRANSPORT</b> ..... Wheelchairs - Elevated Leg Rest	✓			✓			
Wheelchairs - XL							
Stair Chair	✓				✓		
Stretcher	✓				✓		
Long and Short Back Boards with Cervical Spine Immobilization Capabilities	✓			✓	✓		
Basket Stretcher			✓	✓	✓		

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	CLIA/ACEP	WHO	USCG	IAATO	NMA	COVID SPECIFIC REQUIREMENTS	BRAND EXAMPLES
Kendrick Traction Device				✓			
Confined Extration Device			✓		✓		
Trauma Shears				✓	✓		
Vacuum Air Mattress				✓			
Femur Traction Splint (Adult / Peds)							
Scoop Stretcher				✓			
<b>INVESTIGATION</b> .....							
Complete Blood Count (CBC)	✓			✓			
Blood Glucose	✓			✓			
HbA1C							
Electrolytes With a Minimum of Sodium and Potassium	✓			✓			Picollo Express
Renal Function With a Minimum of Creatinine and Urea	✓			✓		Ability to Assess Kidney and Liver Functions	Picollo Express

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Cardiac Enzymes With a Minimum of a CK-MB or Troponin Assay	✓			✓			
Blood Gases				✓		Ability to Perform Blood Gasses for Better Monitoring of Patients	I-Stat
INR / PT / PTT Testing							I-Stat
PCR Testing							
Ultrasound				✓			
X-rays - Digital Unit/ X-ray Generator and Processing/ Developing System	✓					Consider Adding X- rays if Vessel Does Not Have X-rays	
Doppler				✓			
<b>BAGS</b> ..... Pediatric - Broselow/ Hinkle Pediatric System or Similar	✓			✓			
Trauma Supplies - ATLS Bag	✓			✓			
ACLS Bag	✓						

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MIMMS Kit				<input checked="" type="checkbox"/>			
<b>OTHER</b> ..... Cast Cutter							
Intraosseous Gun/Drill							
Examination Light							
Camera							
<b>BASIC LABORATORY TESTING CAPABILITIES: QUICK TESTS</b> ..... Urinalysis: Specific Gravity, Protein, Red Blood Cells, White Blood Cells, Nitrites, Urobilogen, Ketones, pH, Glucose and Albumin	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			
Malaria	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			
Legionella	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			
Influenza A and B	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			
HIV	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			



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Pregnancy: Qualitative HCG							
D-Dimer							
Cholera							
Tuberculosis							
SAFE Kits							
<b>END OF LIFE</b> ..... Morgue							
<b>SECONDARY MEDICAL CENTER &amp; MOBILE DEVICES</b> ..... Portable Medical Equipment and Supplies including:							
Mass Casualty Triage Documentation							
Airway Equipment, Oxygen and Supplies							
Immobilization Equipment and Supplies							

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Battery Powered and Easily Portable Diagnostic and Laboratory Supplies (e.g. Glucometers, thermometers, stethoscopes, sphygmomanometers etc.).							
Defibrillator							