

Republic of the Philippines **CAVITE STATE UNIVERSITY Don Severino delas Alas Campus** Indang, Cavite

CAVITE STATE UNIVERSITY – COLLEGE OF MEDICINE

SUPPLY AND DELIVERY OF ADVANCED MULTIPURPOSE PATIENT SIMULATOR FOR COLLEGE OF MEDICINE

ABC LOT: P8,500,000.00

Item	Qty./	Item Description	Specifications	Unit Price	Total Price
1 NO.			Caparal		
Item No. 1	Qty./ Unit 1 set	Item Description Advanced Multipurpose Patient Simulator (Adult-Male)	SpecificationsGeneral• Tether less and wireless; fully responsive during transport• Fully operational on internal battery power – up to 6 hours• Supports common patient positions – Fowler's, supine, and sittingAirway• Programmable airway: tongue edema, laryngospasm, and pharyngeal swelling• Multiple upper airway sounds synchronized with breathing• Right main stem intubation• Sensors detect depth of intubation• Placement of conventional airway adjuncts	Unit Price (Php) P8,500,000.00	Total Price (Php) P8,500,000.0 0
			 airway adjuncts Endotracheal intubation Retrograde intubation View vocal cords with Sellick maneuver Realistic surgical trachea allows tracheostomy or needle cricothyrotomy Breathing Control rate and depth of respiration and observe chest rise Select independent lung sounds: upper right, front and back; lower right, front and back; lower right, front and back; lower left, front and back Chest rise and lung sounds are synchronized with selectable breathing patterns CO2 on exhalation (4 levels) using replaceable cartridge 		



mounted inside the simulator	
Attach to real mechanical	
ventilators	
 Bilateral chest rise and fall 	
Unilateral chest rise simulates	
pneumothorax	
Anterior and posterior	
auscultation sites	
Bilateral needle	
decompression at second	
intercostal	
 Dynamic airway and lung 	
compliance/resistance	
 Ten levels of static 	
compliance,15-50	
ml/cm H2O	
 I en levels of alrway 	
- Holde DEED from 5 to	
20cm H2O	
\circ Exhales real and	
measurable CO2	
 Change airway and 	
lung settings on the fly	
 Receive real-time 	
feedback from a real	
mechanical ventilator	
• Capable of assisting	
uie venuiaioi ai	
rate	
\circ Compliance and	
resistance can be	
varied while connected	
to the ventilator	
Cardiac	
ECGs are generated in real-	
time with physiologic	
variations never repeating	
textbook patterns	
Heart sounds may be	
auscultated and are	
synchronized with ECG	
eCPR sensors; chest	
compressions are measured	
12-Lead ECG with integrated Mi model	
Speech	
Wireless streeming oudin	
Wireless streaming audio	
Ureate and store vocal	
Circulation	
Circulation	



	 Measure blood pressure by palpation or auscultation Use real BP cuff rather than a "virtual" cuff to measure blood pressure Korotkoff sounds audible between systolic and diastolic
	 Oxygen saturation detected using real monitors rather than a "virtual" value Bulse sites synchronized with
	 Pulse sites synchronized with BP and heart rate Bilateral IV arms with fill/drain sites
	 SubQ and IM injection sites
	Intraosseous access at tibia
	 ECG monitoring using real devices
	 Defibrillate, cardiovert, and pace using real devices
	 Multiple heart sounds, rates, and intensities
	 ECG rhythms are generated in real-time
	 Bilateral carotid, radial, brachial, femoral, popliteal and pedal pulses synchronized with ECG
	 Pulses vary with blood pressure and are continuous and synchronized with the ECG even during a paced
	Invition system
	Automatic drug recognition
	detects medication type, dose, and rate injected into the lower right arm
	 Includes a pre-programmed library of virtual medications
	 Supplied with 20 syringes having wireless tags
	 Add new medications using the UNI software editor
	Compatible with UNI Automatic Mode
	Automatically simulates drug interactions
	Neural responses
	Eyes are controlled



	automatically by the	
	by the instructor	
	Select pupillary response to	
	light Speech	
	Vital signs monitor	
	• Controlled via wireless tablet PC	
	 Use selected configuration or create your own configuration to mimic the real monitors used in your facility 	
	 Share images such as ultrasounds, CT scans, lab results 	
	Touchscreen control	
	Monitor can be configured by the instructor to suit the scenario	
	Articulation and movement	
	Realistic joint articulation	
	 Supports supine, prone, recumbent, and sitting positions 	
	Seizure/convulsions	
	User Interface	
	Sensor track student actions	
	 Changes in condition and care provided are time stamped and logged 	
	 26 pre-programmed scenarios that can be modified by the instructor even during the scenario 	
	 Create your own scenarios (add/edit) 	
	Change the simulator's condition during scenario	
	Other	
	Central cyanosis	
	 Fill bladder and perform Foley catheterization 	
	 Male urinary catheterization with fluid return 	
	 Support placement of nasogastric tube 	
	Auscultate bowel sounds	
	PACKAGE INCLUDES:	
	 All-in one touch screen monitor PC Space 	
	- 12th Gen Intel® Core™ i5-12500	



 (18 - MB cache, 6 cores, 12 threads, 3.00 GHz to 4.60 GHz Turbo, 65 W) Operating System: Windows 11 Pro Graphics Card: Intel® Graphics Monitor: OptiPlex All-in-One Non-Touch Panel Memory: 8 GB, 1 x 8 GB, DDR4 Hard Drive: 256 GB, M.2 2230, PCIe NVMe, SSD, Class 35 	
 Surface Pro 7 Plus Specs Display Screen: 12.3" PixelSense Display Resolution: 2736 x 1824 (267 PPI) Processor: Intel 11th Gen Core i7- 1165G7 quad-core CPU (Wi-Fi) Graphics: Intel Iris Xe Graphics (i5, 	
i7) - Memory: 32GB LPDDR4x RAM (Wi- Fi) - Storage: 1TB removable SSD (Wi- Fi) - Battery life: Up to 15 hours with	
50.4Wh battery (Wi-Fi) Up to 13.5 hours with 50.4Wh battery (LTE) - Camera: Windows Hello face camera (front-facing) 5.0MP front-facing camera with	
1080p full HD video 8.0MP rear-facing autofocus camera with 1080p full HD video - Operating system: Windows 10 Pro - Software: Microsoft 365 apps trial	
Software Installed:	
The software should be a control software that powers all advanced simulators. Easily adjust vitals on- the-fly, automate scenarios, track participants' actions, export data for debriefing, and much more. The sofware puts the controls at your fingertips so you can maximize every simulation learning experience.	
The software is used to control the simulator, monitor the vital signs, and evaluate the provider's performance. The simulation technician or instructor carrying out the simulation operates the software. The control elements and scenario programming	



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throughout the simulators.	
Preconfigured and Ready The software should comes with preloaded and preconfigured in the rugged 12" wireless tablet PC included with the package.	
3D Patient Visualization Monitor The software should show real-time 3D view of the patient ensures you never lose track of provider/patient interaction during the simulation.	
Scenario Designer The software should have the capability to create your own unlimited scenarios quickly and easily and share them with other users and between other simulators.	
Control View Replay The software should have built-in recorder that captures the screen as data so you can review the simulation from the operator's chair.	
No Annual Operating License or Software Update Fees The software updates, upgrades and programming of additional scenarios should free of charge.	
Time-stamped Event Recording and Reporting The sofware should have automated event tracker and interaction recorder ensure important events are always captured so you can focus on the action.	
 Scenario package Protective "bump" case RF module Battery charger Replacement surgical tracheas Replacement pneumothorax inserts Replacement IO bones 	
 set of 20 drug recognition syringes 	



Filling kits
Headset for streaming audio
Carrying case
Laboratory Staff and Faculty
Members Training
Maintenance and after sales
care for 5 years
Constal Conditional Cartifications
for Multinurnose Patient Simulator
to be submitted upon Bid Opening:
1 Certification that the software
provided includes Full
Administrator Rights.
2. Certificate of Lifetime Use
License and Access, including
for the software and for
Automatic Mode license.
3. Certificate that consumables
and Parts are available with
the Philippine distributor and
can be delivered in less than
seven (7) days.
4. Certificate that the winning
bidder will provide warranty
ior a period of 5 years and
for a period of 5 years after
the warranty period
5 Certificate that the bidder has
available local technical
support and will provide end
user training for staff and
faculty members.
6. Certificate that the winning
bidder will provide onsite
calibration and installation.
7. Certificate that the winning
bidder will provide installation,
testing and commissioning.