

AMENDMENT 1

**Invitation for Bid (IFB)
UOG IFB No. B21-20**

Date Issued: July 1, 2021

HEALTHCARE SIMULATION MANIKINS AND EQUIPMENT

This is to notify all prospective offerors of the following amendment set forth below:

- 1.1 Question & Answer Sheet 1 as set forth in the attached.**
- 1.2 ADD Exhibit A as set forth in attached.**
- 1.3 Deadline for submission should read as follows: Tuesday July 13, 2021 at 2:00 p.m. (your bid submission must be submitted electronically to the Bid Share folder provided by UOG Procurement Office on or before 2:00 p.m.) Bid opening will take place at 3:00 p.m. via ZOOM link provided by procurement office to all registered offerors.**

All other terms and conditions remain the same.



Emily G. Gumataotao
Supply Management Administrator

Please acknowledge receipt and email: uog.bids@triton.uog.edu:

Name of company: _____

Print Name/Signature/date

UOG INVITATION FOR BIDS NO. B21-20:
HEALTHCARE SIMULATION MANIKINS AND EQUIPMENT

QUESTION & ANSWER SHEET NO. 1
July 1, 2021

*In response to the written "Questions" and/or 'Request for Clarifications' UOG received as of June 29, 2021 @ 10:42am from vendor: **MEDPHARM***

Question 1: Hafa Adai! Due to our supplier still reviewing our request with pending prices and estimated availability, we would like to respectfully request an extension for B21-20 in order to provide you with the best possible prices and availabilities.

Answer: UOG confirms request granted. Bid submission extended until July 13, 2021.

*In response to the written "Questions" and/or 'Request for Clarifications' UOG received as of June 30, 2021 @ 2:34pm from vendor: **JMI EDISON***

Question 1: Will you accept item/s equivalents/alternates?

Answer: UOG confirms that we will accept Brand Name or Equal Specification.

Question 2: If yes, may we request for items specifications as references for sourcing out item/s equivalents/alternates?

Answer: UOG confirms to refer to Exhibit A as set forth in Amendment 1.

Question 3: May we also request for submission extension just in case contacted sources could not respond back in time

Answer: UOG confirms request granted. Bid submission extended until July 13, 2021.

EXHIBIT A

University of Guam

BID SPECIFICATIONS OR EQUIVALENT

BID NO. B21-20

This bid pertains to the following:

1. University of Guam, Healthcare Simulation Manikins and Equipment

Background:

The School of Health Learning Resource Center seeks to expand and enhance its capabilities in simulation and clinical education of BSN students at School of Health. This expansion includes the following:

Bid Items, Quantity, Specifications:

IV Injection Arms

To allow for realistic training, demonstrating or practicing intravenous injection techniques.

Quantity: 6 (six)

Specifications:

- High-quality, stain resistance and easy to clean soft skin-like material, lightweight and Portable, able to move easily from classroom to classroom
- Mounted tubing system
- Palpable blood vessels
- Multi vein system
- Replaceable injection skin
- Accessible Veins: Basilica, Cephalic, Median cutital
- Arm Stand
- Blood bag
- Artificial blood concentrate
- Injection cannulas
- Replacement tubing system parts
- Lubricant
- Light Skin Tone
- Carrying case
- Users manuals.
- Machine performance guarantees.
- Certified to provide manufacturer support services on island.
- Shipping and handling costs.

Multipurpose Venous Arm

To have participants practice and gain proficiency in nursing skills and procedures like venipuncture, IV administration, blood collection, infusion and intravenous injection.

Quantity: 6 (Six)

Specifications:

- Subtle venous network in arm and hand
- Cephalic, basilic, antecubital, radial, and ulnar veins
- Realistic "pop" as needle enters vein.
- Intramuscular injection site in deltoid area
- Subcutaneous injection areas on the volar side of the forearm and the lateral side of the upper arm

- TB test site
- Squeeze bulb to increase or decrease venous pressure.
- Veins stand out or collapse.
- Easily replaceable skin and veins
- Administration of medication by intravenous bolus
- Simulation of infusion technique
- Blood collection exercises with simulated blood
- Simulation of clenched fist and tourniquet position
- Includes accessories: Set-up kit with simulated blood concentrate, pressure bulb, blood dispensing bag, spare arm skin, funnel, and powder. Soft nylon carrying bag. Instruction manual

Attachable Intravenous Injection Trainer IV Pad

For easier and faster training of injection and blood sampling.

Quantity: 10 (Ten)

Specifications:

- Attachable to a person arm or manikin
- Ability to simulate palpation, intravenous injection and insertion of indwelling needles.
- Injection marks does not leave needle marks.
- Metal backing preventing needles piercing through the pad.
- Ability to exchange blood vessels.
- User's manuals.
- Shipping and handling costs.

Exchangeable Normal blood vessels

Exchangeable Normal blood vessels compatible to the Attachable Intravenous Injection Trainer IV Pad

Quantity: 200 (Two Hundred)

Specifications:

- 4mm tubing
- Must be compatible to the Attachable Intravenous Injection Trainer IV Pad above
- User's manuals.
- Shipping and handling costs.

Exchangeable Narrow blood vessels

Exchangeable Narrow blood vessels compatible to the Attachable Intravenous Injection Trainer IV Pad

Quantity: 200 (Two Hundred)

Specifications:

- 3mm tubing
- Must be compatible to the Attachable Intravenous Injection Trainer IV Pad above
- User's manuals.
- Shipping and handling costs.

5-Year-Old Pediatric IV & Arterial Training Arms

Realistic and versatile task trainer designed for teaching intravenous and arterial access skills.

Quantity: 2 (Two)

Specifications:

- Lifelike simulator for realistic look and feel of a 5-year-old child.
- Accessible veins: Median, Basilic and Cephalic
- Articulating wrist
- Capable of Venipuncture

- Adjustable pulse strength and rate
- Peripheral IV-line insertion and removal
- Palpable radial and brachial pulse
- Infusible veins
- Replaceable skin
- Replaceable veins and arteries
- Multi-vein system
- Simulated Blood
- Manikin lubricant
- Blood bag with tubing and connectors
- Carrying Case
- Light skin tone
- Easy Maintenance
- User's manuals.
- Machine performance guarantees.
- Certified to provide manufacturer support services on island.
- Shipping and handling costs.

1-Year Old Pediatric IV & Arterial Training Arms

Realistic and versatile task trainer designed for teaching intravenous and arterial access skills.

Quantity: 2 (Two)

Specifications:

- Lifelike simulator for realistic look and feel of a 1-year-old child.
- Accessible veins: Median, Basilic and Cephalic
- Articulating wrist
- Capable of Venipuncture
- Palpable radial and brachial pulse
- Adjustable pulse strength and rate
- Peripheral IV-line insertion and removal
- Infusible veins
- Replaceable skin
- Replaceable veins and arteries
- Multi-vein system
- Simulated Blood
- Manikin lubricant
- Blood bag with tubing and connectors
- Carrying Case
- Light skin tone
- Easy Maintenance
- Users manuals.
- Machine performance guarantees.
- Certified to provide manufacturer support services on island.
- Shipping and handling costs.

Student Auscultation Manikin

Used to assist students in learning to identify and differentiate normal and abnormal cardiac and pulmonary sounds, and is an essential clinical skill needed to assess and monitor patients' conditions.

Quantity: 2 (Two)

Specifications:

- Simulator, Soft Skin Torso
- Software: Library of realistic echocardiogram and respiratory sounds and case videos recorded from live patients or life-like clinical setting/simulations.
 - Heart sounds
 - Heart sound conditions
 - Vesicular breath sounds
 - Adventitious breath sounds
- Able to provide Phonocardiogram.
- Auscultation sites: Heart, Lung, Bowel & Bruit
- Able to demonstrate Palpable Carotid pulse, ECG video and waveforms for heart sounds.
- Adjustable heart rate
- Lightweight and Portable, able to move easily from classroom to classroom.
- Able to be used with any stethoscope.
- Light Skin Tone
- User can create and save own videos.
- Capabilities to connect to external speaker.
- Non-Gender Specific
- Included Laptop/device with pre-installed software.
- User's manuals.
- Machine performance guarantees.
- Certified to provide manufacturer support services on island.
- Compatible with an auscultation teaching program/software
- Shipping and handling costs.

Female Catherization Simulator

To demonstrate and practice urinary catherization and use for anatomical identification and demonstration of perineal care.

Quantity: 6 (Six)

Specifications:

- Simulator of a middle-aged woman with thighs abducted for proper position during catheterization.
- Constructed with a bladder reservoir, urethra and a valve simulating internal urethral sphincter.
- Lifelike form of external genitalia and perineum
- Able to spread the labia minora apart to reveal the clitoris, urethral opening, and vaginal introitus.
- Able to provide normal feelings of resistance and pressure as the catheter passes through the urethra and sphincter and into the bladder.
- Able to have liquid flow from the catheter simulating a real patient.
- Must include a hard carry case, lubricant, catheter, and teaching guide.
- Users' manuals.
- Machine performance guarantees.
- Certified to provide manufacturer support services on island.
- Shipping and handling costs.

Catherization Models (Male and Female)

To demonstrate sterile technique and insertion and removal of catheter and procedure preparations.

Quantity: 3 Male and 3 Female

Specifications:

- 16 FR catheter to demonstrate balloon inflation procedures.
- Able to be mounted on a training stand or used on tabletop.

- Fluid reservoir that allows for urine output
- Users' manuals.
- Machine performance guarantees.
- Certified to provide manufacturer support services on island.
- Shipping and handling costs.

Extra Large Injection Pad

To simulate a realistic injection experience.

Quantity: 10 (Ten)

Specifications:

- Able to inject fluid and easily drain out.
- Able to conduct Intramuscular, Subcutaneous, Intradermal, and Z-track injections.
- Able to be punctured repeatedly without showing holes.
- Storable fluids up to 250ml
- Dimensions preferred: 8 in. radius x 1-1/2 in. H x 7 in
- Users' manuals.
- Shipping and handling costs.

Injection belly

To demonstrate how to properly insert and rotate the infusion set for insulin pumps as well as many types of self-injections.

Quantity: 4 (Four)

Specifications:

- Lifelike skin that feels like real stomach tissue
- Ability to pinch the skin.
- Backing support to keep the needles from going through.
- Adjustable straps allowing to be attached to a manikin or a human patient for simulation practice.
- Able to be punctured repeatedly without showing holes.
- Users manuals.
- Certified to provide manufacturer support services on island.
- Shipping and handling costs.

Lifelike Blood Pressure Simulator with Amplifier/Speaker System

To simulate systolic and diastolic pressures and provides the ability to listen and to distinguished blood pressure sounds

Quantity: 4 (four)

Specifications:

- Allow presetting the values for both systolic and diastolic pressures.
- Able to audibly discern the five Korotkoff phases
- Control unit included to select systolic and diastolic settings, adjust volumes, control auscultatory gap, adjust pulse rate
- Able to place a blood pressure cuff on the arm
- Ability to check palpable pulse
- Ability to auscultate Korotkoff sounds with any stethoscope through a speaker in the arm
- Ability to broadcast blood pressure sounds
- Able to change Korotkoff phases to compare the audible differences, pulse rates and volume
- Users manuals.
- Machine performance guarantees.
- Certified to provide manufacturer support services on island.
- Shipping and handling costs.

Nasogastric (NG) Tube & Tracheostomy Skills Simulator

To train, practice, and learn procedures in the care of patients with respiratory and gastrointestinal conditions via the nasal and oral access.

Quantity: 4 (Four)

Specifications:

- Anatomical landmarks on head, trachea, esophagus, simulated lungs and stomach.
- Lungs and stomach may be filled with fluid for realistic practice of procedures
- Tracheostomy care
- Tracheal suctioning
- NG tube insertion and removal, irrigation, instillation and monitoring
- Feeding tube insertion and removal
- Gastric lavage and gavage
- Nasoenteric and esophageal tube insertion, care and removal
- Oropharyngeal and nasopharyngeal insertion and suctioning
- Manikin Lubricant
- Light Skin Tone
- Carrying case
- Users manuals.
- Machine performance guarantees.
- Certified to provide manufacturer support services on island.
- Shipping and handling costs.

Adult Tracheostomy Tube

Adult tracheostomy tube for the simulators to train, practice and learn procedures in the care of patients with respiratory and gastrointestinal conditions via the nasal and oral access

Quantity: 8 (Eight) Boxes

Specifications:

- Must be compatible to the simulator Nasogastric (NG) Tube & Tracheostomy Skills Simulator above.
- Shipping and handling costs.

** All items above must include:

- Users manuals.
- Shipping and handling costs.
- For simulation/ electronic devices/ manikins - Machine performance guarantee.
- For simulation/ electronic devices/ manikins - Manufacturer support services on island.