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RATIFICATION OF EQUIPMENT PURCHASE – UNIVERSITY OF IOWA

Action Requested: Ratify the Executive Director's December 15, 2011, approval for the University of Iowa to purchase a da Vinci Si Firefly surgical robot for UIHC at a cost of \$2,185,000.

Executive Summary: Equipment purchases at the Regent institutions costing more than \$1 million are required by Board policy to be approved by the Board of Regents. The Executive Director may approve emergency purchases exceeding \$1,000,000 to be followed by Board ratification.

Analysis:

Description of the Equipment

Robotic surgery is a technique in which a surgeon performs surgery using remote controls with very small instruments attached to a robot.

The small, precise movements that are possible with this type of surgery give it some advantages over standard techniques. Robotic-assisted surgery can sometimes allow a surgeon to perform a less-invasive procedure that was once only possible with more invasive open surgery.

Once placed in the abdomen, a robotic arm is easier for the surgeon to use than traditional instruments. The robot reduces the surgeon's movements (for example, moving 1/2 inch for every 1 inch the surgeon moves), which reduces some of the hand tremors and movements that might otherwise make the surgery less precise. Also, robotic instruments can access hard-to-reach areas in the body more easily through smaller surgical cuts compared to traditional surgery. During robotic surgery, the surgeon can more easily see the area being operated on, and the surgeon is also in a much more comfortable position and can move in a more natural way than during endoscopy.

Purchase of the surgical robot includes the following components: Dual Surgeon Consoles, Surgical Arm Cart, Simulator and Video Cart.

Justification of the Need for the Equipment

The University reports that:

- ◆ UIHC currently utilizes two of its three Da Vinci robots;
 - (1) Purchased in 2002 (1st generation 3-arm) – Not currently used due to its age and significant lower technology; it will be included as a trade-in on this purchase;
 - (2) Purchased in 2007 (2nd generation 4-arm); and
 - (3) Purchased in 2010 (1st generation 4-arm).
- ◆ The program has grown significantly, with five surgical specialties utilizing robotically-completed procedures. In order for the program to continue to achieve volume growth and high patient outcomes, this system is requested to provide 3rd generation capabilities to the UIHC patient population.
- ◆ Purchase of the da Vinci Si Firefly surgical robot is critical to the advancement of UIHC's growing robotic surgery program. UIHC will continue to gain recognition as a state and national leader in developing and offering cutting-edge clinical services and more efficient healthcare delivery models that emphasize a quality-driven patient experience.

Any Known Alternatives to the Equipment Proposed

UIHC has standardized on da Vinci robots as they are the only multi-specialty surgical robots being produced. The purchasing department approved the sole source justification.

Estimated Cost and Source of Funding

To preserve the price of \$2,185,000, the Executive Director's emergency approval allowed the University to place the order by December 23, 2011, and save \$308,200. The source of funding is UIHC Capital Funds.

Board Policy: Chapter 7.06B(12) of the Regent Policy Manual requires that:

- ▶ Equipment costing more than \$1,000,000 must be submitted to the Board for approval; and
- ▶ Requests submitted to the Board Office for approval must include the following information:
 - ◆ Description of the equipment;
 - ◆ Justification of the need for the equipment;
 - ◆ Any known alternatives to the equipment proposed; and
 - ◆ Estimated cost and source of funding.

The Executive Director may approve emergency purchases which exceed \$1,000,000 to be followed by Board ratification. Emergency purchases are defined in 681 IAC 8.9(4).