

BOARD MEMORANDUM

T0: Board of Regents, State of Iowa
FROM: Jean Friedrich
DATE: June 1, 2005 *ASN*
SUBJ: University of Iowa - Equipment Purchase

Recommended Action:

Approve the equipment purchase of General Purpose Parenteral Infusion Devices (IV Pumps) for Pediatric Inpatient Units and Outpatient Clinics at the University of Iowa Hospitals and Clinics at an estimated cost of \$1,251,550.

Executive Summary:

The University of Iowa is requesting approval for the purchase of General Purpose Parenteral Infusion Devices (IV Pumps) for Pediatric Inpatient Units and Outpatient Clinics totaling approximately \$1.3 million. Infusion devices are commonly used to deliver fluids and drugs via a drip into the vein.

The current infusion devices are beyond their useful life, are experiencing significant downtime for repairs, and do not possess the technologies required for a dose-error reduction system (i.e., "smart pump").

Background:

Policy Manual

Chapter 7.05B(12) of the Regent Policy Manual requires that:

- Equipment costing more than \$1,000,000 must be submitted to the Board for approval and include:
 - 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.
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Analysis:

Description of Equipment

General Purpose Parenteral Infusion Devices (IV Pumps) for Pediatric Inpatient Units and Outpatient Clinics. This request is part of a hospital-wide initiative to standardize general purpose infusion devices across all pediatric and adult services.

Justification The new infusion devices will replace existing pumps in the pediatric services purchased in 1993.

The present pediatric infusion devices are now beyond their useful life and experiencing significant downtime for repairs. In addition, they do not possess the technologies required for a dose-error reduction system (i.e., "smart pump"), a critical element for the implementation of new medication delivery systems and ultimately for patient safety. The new devices will include drug libraries and two-way wireless systems enabling the pumps to interact with the hospitals' medication point-of-care system and intensive care clinical documentation system.

Devices for the adult services will be purchased and installed in subsequent fiscal years.

Bidding Process Including the trade-in value of 181 pumps, the approximate purchase price of each pump would be between \$4,000 and \$4,800. The total cost estimate will allow for the purchase of 250–300 pumps.

The requested pediatric infusion devices have been selected through the competitive bid process. The choice of device for purchase has been narrowed to two vendors. Clinical evaluations of the final two vendors will take place in May, with a single vendor selected by mid June 2005. The total budget for the infusion devices is \$1,251,550.

Estimated Cost and Source of Funds The source of funding for this purchase is UIHC funds for capital equipment acquisition during FY 2005. The new pediatric general purpose infusion devices will be delivered and introduced into service during FY 2006.

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