

**MEMORANDUM**

**To:** Board of Regents  
**From:** Board Office  
**Subject:** Equipment Purchases for University of Iowa Hospitals and Clinics  
**Date:** March 1, 2004

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**Recommended Action:**

Approve the purchase of the following items for the University of Iowa Hospitals and Clinics:

1. A 3.0 Tesla Magnetic Resonance Imaging (MRI) System in the amount of \$2,475,578 for the MRI Suite.
  2. A 1.5 Tesla MRI System in the amount of \$1,848,079 for the UIHC MRI Suite.
  3. An Angiography System in the amount of \$1,012,395 for the UIHC Interventional Radiology Suite
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**Executive Summary:**

Regent Policy Manual	The <u>Regent Policy Manual</u> Chapter 7 requires Board approval for equipment costing more than \$1,000,000.
Description	The University of Iowa Hospitals and Clinics (UIHC) requests approval to purchase two MRI systems (3.0 Tesla and 1.5 Tesla) for the UIHC MRI Suite, and an Angiography System for the UIHC Interventional Radiology Suite, all from Siemens Medical Solutions.
MRI Systems	<p>The current patient volume of the UIHC MRI Suite, which houses three MRI units, exceeds its capacity; one of the units, which can no longer be upgraded, is technologically obsolete and lacks the image quality of newer generation systems.</p> <p>In October 2003, the Board approved the program statement, schematic design, and project description and budget (\$2,131,000 [the project budget did not include equipment]) for the <b><u>University Hospitals and Clinics—Magnetic Resonance Imaging (MRI) Systems Installation</u></b> project to renovate space in the MRI Suite to accommodate the installation of a fourth MRI unit, and a replacement MRI unit, to meet the current and future demand for MRI services.</p>

- The new 3.0 Tesla MRI System, a higher field strength system, would provide greater imaging capabilities with many applications that currently are not feasible or reliable with the Center's existing equipment; this would benefit patients in almost all clinical services and increase the capacity of the MRI Suite.
  - The cost of the 3.0 Tesla MRI System is \$2,475,578.
- The 1.5 Tesla MRI System, which would replace the existing obsolete system, would provide faster scan speeds and accommodate pre-programmed protocols to increase the capacity of the MRI Suite.
  - The cost of the 1.5 Tesla MRI System is \$1,848,079.

Angiography  
System

The existing Angiography unit in the UIHC Interventional Radiology Suite was installed in 1988 and has exceeded its useful life; the unit requires increasing maintenance and repairs, resulting in significant downtime for the equipment.

- The new Angiography System would provide vastly improved imaging quality in a more timely manner while reducing the radiation dose to the patient and staff operating the equipment.
  - The cost of the Angiography System is \$1,012,395.

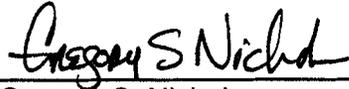
Funding

The source of funding for the purchases will be FY 2004 UIHC funds for capital equipment acquisition.

Competitive Bids

The equipment was selected through the competitive bidding process.

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 Approved:   
Sheila Doyle Gregory S. Nichols