# Analysis



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Advances in biomedical research

provide medical researchers with

unprecedented opportunities to understand and interdict human

diseases. To seize these opportunities,

U.S. medical schools and teaching

hospitals must produce and support

sufficient cadres of translational and

clinical physician-scientists to propel

nostics, treatments, and preventatives

in academic medical institutions are

impeding these outcomes.

of disease. Yet concerns are widespread

One way to remove these organizational

barriers is in the centralization of research governance and infrastructure.

Based upon the work of the AAMC's Clinical Research Task Force II, this Analysis in Brief examines the degree to

which academic medical centers have

models and benefits of centralization.

research enterprises, as well as the

In 2005, we surveyed 65 program

directors of NIH General Clinical

Research Centers (GCRCs).<sup>1</sup> Forty-six

institutions (71 percent) responded to

the survey. Additional information and

insight came from pertinent literature

reviews and examinations of best prac-

tices by the members of the AAMC's

Clinical Research Task Force II.

Method

centralized their translational and clinical

scientific advances into better diag-

Association of American Medical Colleges

## Administration and Infrastructure for the **Translational and Clinical Research Enterprise**

#### Figure 1

#### Institutional Organization, Administration, and Governance of Clinical Research, 2005



\* Many are actually in the planning stages. In 2005, only seven institutions had a centralized structure supporting all or almost all aspects of clinical research.

### Results

Survey responses indicate that medical schools are moving toward administrative centralization of their translational and clinical research enterprises (Figure 1). Slightly more than half (58 percent) of respondents had an institutional official responsible for clinical research across the institution; 52 percent had, or were in the process of establishing, a specific, centralized administrative structure to support/facilitate clinical research and training; 76 percent provided centralized or shared core facilities to support clinical research; and 57 percent had established a clinical trials office for industry trials. Institutional review boards were

<sup>1</sup>NIH General Clinical Research Centers are a national network of centers that provide settings for medical investigators to conduct both inpatient and outpatient clinical and translational research studies. GCRCs also provide infrastructure and resources that support several career development opportunities.

generally centralized and based either in the school or hospital (67 percent) and/or the university (48 percent). Less centralization was evident in other areas, such as informatics (36 percent), research subject recruitment (13 percent), and community networks (18 percent).

#### Approaches to Centralization

Our analysis identified three general approaches to the centralization of clinical and translational research (Table 1). The first model centralizes the enterprise as a clinical research office within the Office of the Dean. Second, some institutions have created a separate Department of Clinical and

#### Table 1.

#### Three Approaches to Centralization of the Translational and Clinical Research Enterprise

	Dean's office	Separate department	Center (matrix)
Administrative home	Office of clinical research in dean's office	Department of clinical research	Center for clinical research
Leadership	Associate dean for clinical research (or equivalent)	Chair of the department of clinical research	Director of the center for clinical research
Appointment of investigators	Discipline department	Primary: department of clinical research	<i>Primary:</i> discipline department
		<i>Secondary</i> : discipline department	Secondary: center for clinical research
Location of investigators	Discipline department	Department of clinical research	Either discipline department or center for clinical research
Oversight of resources supporting investigators	Discipline department	Department of clinical research	Both discipline department and center for clinical research
Location of essential clinical research components	Co-localization is possible	Department of clinical research	Center for clinical research
Oversight of resources supporting essential clinical research components	Dean's office	Department of clinical research	Either or both discipline department or center for clinical research

Translational Research. The third approach creates a Center for Clinical and Translational Research.

Many institutions are employing these approaches or hybrid variations of them. Whichever the approach, all include a leader who most often reports to the dean of the medical school, but in some cases may report to a higher university official, such as the vice president/vice chancellor for medical affairs or for research.

Essential core components of this centralized translational and clinical research enterprise include research training and degree-granting programs; the GCRC(s) that provide participant and clinical interactions resources; the clinical trials office; bioinformatics and protocol development (research design, biostatistics, and regulatory support); and support for community collaborations and linkages.

#### **Benefits to Centralization**

Based on the survey results and research of the AAMC's Clinical Research Task Force II, we believe many benefits can emerge from greater centralization of the translational and clinical research enterprise. Centralized leadership aided by strategic planning and targeted investment of resources can promote cohesion among the various components and partnerships with and between departments and other schools. It also can ensure that appropriate investments are made to maintain continuity of cutting-edge research infrastructure and retention of key nonfaculty research staff, who are often vital to the success of these programs.

Centralization also may help produce a culture in which translational and clinical research is vibrant and visible and can strengthen the identity and morale of translational and clinical scientists. If feasible, co-localization of infrastructure components may increase spontaneous meetings of clinical investigators and promote scientific interactions. Locating the training programs in the midst of the research enterprise can create a sense of excitement and mission among the trainees, and importantly, increase their chances to encounter role models.

Centralized oversight and support of core resources can enhance their usage by providing fair and unimpeded access for any faculty member who needs their services. Centralized oversight also can help ensure that institutional leaders learn of any issues or problems immediately, and can respond to them quickly. Additional advantages include efficiency, cost savings, continuity of funding, availability of backup personnel, uniform operating procedures and training that improve compliance, and uniform standards for the qualifications and experience of support personnel.

The call for central oversight, administration, and support for translational and clinical science is consistent with the intent of the recently issued NIH Clinical and Translational Science Award (CTSA) initiative<sup>2</sup> that seeks to create "academic homes" for translational and clinical science. This initiative provides a powerful incentive for greater institutional attention to, and centralization of, oversight and support of translational and clinical research.

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<sup>&</sup>lt;sup>2</sup> See www.ncrr.nih.gov/clinicaldiscipline.asp for more information.