How to support the basic sciences

It has become axiomatic that basic science faculty and research programs at medical schools must support themselves. The days when excess clinical revenue was used to support basic research are long gone. With the pressure of managed care and faculty practice programs on medical school budgets, it appears that medical school leaders are looking everywhere but at clinical programs for critical support of biomedical research at their institutions, even as NIH support shrinks.

The future of both basic science programs and clinical programs at academic medical centers rests in reestablishing a healthy flow of financial support from clinical programs to basic programs. In order for this support to be meaningful and acceptable to clinicians, the relationship between basic and clinical programs has to become a two-way street. For too long, basic scientists have ignored their clinical colleagues while bemoaning the apparent flow of money to clinical programs, and as a result, many basic science programs have limped along as poor cousins.

The time has come for basic scientists at medical centers to provide academic programs for their clinical colleagues, including training in basic research for medical students, house staff, and faculty. Courses highlighting the latest advances in basic research that are relevant to the current practice of medicine need to be available and accessible. Clinicians practicing at academic health centers could benefit from learning about new scientific discoveries, and they would likely recognize that this enriches their profession and enhances their abilities to provide cutting-edge care for patients. Providing such education is both an obligation and an opportunity for basic science faculty; it could enhance their productivity and the relevance of their own work, and it would provide a reason for clinicians to share proceeds from their clinical practices with their basic science colleagues.

The leaders of academic health centers have avoided the uncomfortable truth that within their institutions an MD is likely to make a substantially larger income than a PhD with equivalent training. When they are enlisting the support of potential donors, however, it is often the accomplishments of basic scientists that are cited. Much of the prestige garnered by an academic health center rests on the achievements of its basic scientists. Clinicians working at leading academic health centers must come to appreciate that the accomplishments of their basic science colleagues, whose discoveries lead to front-page stories about medical breakthroughs, provide both tangible and intangible benefits to their practices. Basic scientists need to do a much better job of sharing their expertise and imparting the excitement of intellectual and financial resources. If the leaders are philosophically committed to supporting this cooperative effort, they can overcome the reluctance to impose new taxes on clinical income, and they will be able to direct philanthropic dollars where they are most needed.

Unifying basic scientists and clinicians on the campuses of academic health centers is an effort that must succeed. If we fail at this task, then the promise of what modern biomedical research coupled with patient care can achieve will not be realized. The public and the policy makers will lose faith in the ability of academic health centers to deliver new cures, and the biomedical research infrastructure will crumble. To win this battle, academic health center leaders will need to push the agenda of collaboration to new levels that require a long-range altruistic perspective. We need to leave the next generation of biomedical researchers a culture in which scientists and physicians walk arm-in-arm down the corridors of our medical schools, exchanging ideas, teaching together, and teaching each other.

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