
THERE ARE NOT TWO SCIENCES. THERE IS SCIENCE,
AND THE APPLICATION OF SCIENCE, AND THESE
TWO ARE LINKED AS THE FRUIT IS TO THE
TREE...*LOUIS PASTEUR*

CHERYL MONTURO, PHD, MBE, ACNP-BC
PROFESSOR OF NURSING



OBJECTIVES

- Discuss evidence based practice
- Discuss translational research
- Outline the need not only for bench researchers but for those who would translate the research into patient care initiatives

EVIDENCE BASED PRACTICE (EBP)

Care that integrates the best research with clinical expertise and patient values for optimum care (IOM, 2003).

*EBM is a “conscientious, explicit, and judicious use of current best evidence in making decisions about care of individual patients.”
(Sackett, 1996)*

THE EVIDENCE SOURCE EQUATION

Clinician
Experience

+

Patient
Preferences

+

Scientific
Findings

=

Evidence-Based
Guidelines

WHY NOT JUST SCIENTIFIC FINDINGS?

- Large regional variations in practices across the US (IOM, 2003)
- Rapid development of knowledge in the US but slow adoption of EBP
- Only half of US citizens receive recommended care (IOM, 2003)

BASIC VS. CLINICAL RESEARCH

- ...without thought of practical ends.
- ...general knowledge and an understanding of nature and its laws.
- ...it may not give a complete specific answer...
- Patient-oriented research...
- Directly interacts with human subjects...
- Human diseases...
- Therapeutic interventions...
- New technologies

TRANSLATIONAL RESEARCH

- ...the process of applying discoveries generated during research in the laboratory...to the development of trials and studies in humans...
- ...aimed at enhancing the adoption of best practices in the community...
- ...Cost-effectiveness of prevention and treatment strategies...

“TAKE HOME MESSAGE”

- From the Center for Transdisciplinary Evidence-based practice at Ohio State University College of Nursing...
 - Errors
 - Preventable complications
 - Wasteful healthcare spending
- Accelerate and sustain evidence-based practice across the nation.
- ...Improve quality of care and reduce costs through EBP.