Putting your work to work
How to turn your daily routine into outcomes data with ANDHII

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Overview

- What can outcomes data can do for you?
- How to get started
- Case study: inpatient diabetes
- How your outcomes collection helps the whole profession
What can outcomes data can do for you?

• Improve patient/client communication and motivation

• Demonstrate your value through impact on patient outcomes

Visualize Impact

Nutrition Intervention → Patient lifestyle changes → Outcomes
Analyze Data

• Average data for all of your patients
• Compare against benchmarks
• Pressure Ulcers
• Malnutrition
• Glycemic control
• Weight mgmt.

Getting Started

1. Choose a study topic
2. Determine outcomes and cofactors
3. Start using ANDHII
IRB Review

1. What are you doing?
   Research
   • Systematic Investigation &
   • Contributes to generalizable knowledge

   Quality and Performance Improvement
   • Systematic Investigation &
   • Informs decisions for the current healthcare setting only

   Key Question: Planning to publish for others to apply the findings? Yes = IRB review
HIPAA Requirements

PHI
• Individually identifiable health information
• 18 identifier categories in Privacy Rule

De-identification
• Mitigates privacy risks to individuals
• Supports the secondary use of data
• Allows providers to use and disclose information

Compliance Options

Additional Information from the Department of Health and Human Services
• Office for Human Research Protections – Guidance on Research Involving Coded Private Information or Biological Specimens
  http://www.hhs.gov/ohrp/policy/cdebiol.html

• Office for Civil Rights - Guidance Regarding Methods for De-identification of Protected Health Information in Accordance with the Health Insurance Portability and Accountability Act (HIPAA) Privacy Rule
Case Study

1. Study topic: I think that removing the standard snack order improves glycemic control for my inpatient diabetics

2. Choosing outcomes and factors

What information will prove my point?
- patient, client, family endocrine, metabolism history
- meal or snack pattern - Number of snacks
- glucose, fasting
- peak postprandial capillary plasma glucose

What else might cause these outcomes?
- prescription medication - alter glucose levels
- total carbohydrate intake
3. Start Using ANDHII

Live demo of ANDHII website

Outcomes Research

Advancing Evidence Based Practice
Evidence Based Practice

1996
- EBP Defined
- Medical Nutrition Therapy Across the Continuum of Care

2001
- MNT Evidence-based practice guidelines

2004
- Evidence Analysis Library

2005
- Nutrition Care Process Model and Diagnostic Terminology

2007

2014
- Academy of Nutrition and Dietetics Health Informatics Infrastructure

The Evidence Based Practice Cycle

Clinical and Translational Research → Evidence Based Practice Guidelines → NCPT

Evidence Analysis Library (EAL)

Clinical Practice
- Assessment
- Diagnosis
- Intervention
- Monitoring & Evaluation

NCP

Outcomes
Internal Validity
• Results reflect what was intended to be measured
• Methodological Quality
• Prevention of Bias

External Validity
• Results persist in contexts beyond the study
• Generalizability
The Evidence Based Practice Cycle

Clinical and Translational Research → Evidence Based Practice Guidelines → Clinical Practice

Outcomes Research → NCPT → Positions and Public Policy

EAL: Evidence Analysis Library, NCP: Nutrition Care Process, NCPT: Nutrition Care Process Terminology (formerly IDNT)
ANDHII: Academy of Nutrition and Dietetics Health Informatics Infrastructure, DPBRN: Dietetics Practice Based Research Network

References