#### Reports, Decision support, Incentives, Research: Can One Click Do It All?

Rhythms in Quality 4<sup>th</sup> Annual NDNQI Data Use Conference New Orleans, LA January 20, 2010

#### Norma M. Lang RN, PhD, FAAN, FRCN

Wisconsin Regent Distinguished Professor Aurora Professor of Healthcare Quality and Informatics University of Wisconsin Milwaukee College of Nursing

> Professor and Dean Emeritus University of Pennsylvania School of Nursing

## Celebrate the Progress of ANA NDNQI

- I recall the first ANA calls and meetings on the idea and the first list of indicators... could it be done?
- Congratulations on over 1500 agencies participating in NDNQI.
- ANA to Open Premier Nursing Performance Measure Database to Top Researchers

#### Celebrate the Progress

- These NDNQI conferences are indicators of success.
- The research and practice content at this conference is amazing and welcome

#### **Early Questions**

- Could we identify nursing quality indicators?
- What are the quality indicators that would describe nurses and nursing practice?
- Would these indicators be able to be collected, analyzed, benchmarked and used to improve the quality of patient care?
- Would stakeholders be willing to invest or buy into the process?

#### **Current Questions**

- To what extent are the NDNQI indicators matched to or included in the national indicators of such groups as CMS, NQF and the JC? (harmonization??)
- To what extent can the NDNQI indicators be used in national and regional reports; quality improvement; accreditation & certification; public reporting and for financial incentives?
- What are the additional or new indicators?
- What is the progress towards using standardized terminology and codes?

#### **Current Questions**

- To what extent can we include Nursing indicators and data in Health Information Technology (HIT) Meaningful Use Criteria?
- To what extent can we use information technology to capture essential nursing data?
- To what extent can we use information technology to control or reduce the burden on nurses?

#### Thus, the Title of My Discussion

Documentation
Decision Support
Reports
Incentives
Research

Can ONE Click Do It All?

CLICK CLICK CLICK

#### Today's Session Objectives

- 1) Recognize the importance of nursing sensitive indicators to practice, administration, research and public policy.
- 2) Describe how a successful intelligent information system can contribute to decision support, collection, analysis, use and reporting of essential nursing data.

#### From National and **Research Perspectives**

- "Meaningful use" of Health Information Technology (HIT) From the National Perspective
- Knowledge Generated Everyday; What to Do?
- Frequent New Measures/Guidelines; What to Do? Joint Commission? National Quality Forum? Government Guidelines (AHRQ, CDC, CMS)? Professional Associations?







#### **US Goal:**

#### "Meaningful Use" of Health **Information Technology (HIT)**

- "Meaningful Use" for Nursing Care?
- What are the Most Important Knowledge-Based Nursing Care Areas?
- What are the measures for these?
- Where can the measures be found in an electronic information system?
- Are these measures used for quality improvement?
- Are these measures ready for public reporting?
- Are these measures ready for pay for performance.







#### What are the nursing related measures today?

- ANA NDNQI (discussed elsewhere at this conference)
- **CMS**
- CDC
- NQF (will discuss in more detail)
- TJC

#### **NQF Mission**

The National Quality Forum (NQF) operates under a three-part mission to improve the quality of American healthcare:

- 1) Setting national priorities and goals for performance improvement;
- 2) Endorsing national consensus standards for measuring and publicly reporting on performance; and
- 3) Promoting the attainment of national goals through education and outreach programs.

#### 2005

NQF-endorsed™
National Voluntary
Consensus Standards
for
Nursing-Sensitive Care

## NQF-endorsed™ NVCS for Nursing-Sensitive Care

- 1. Failure to rescue (death among surgical inpatients with treatable serious complications)
- 2. Pressure ulcer prevalence
- 3. Falls
- 4. Falls with injury
- 5. Restraint (vest and limb) prevalence
- 6. Urinary catheter-associated UTI ICU
- Central line catheter-associated BSIs ICU
- 8. Ventilator-associated pneumonia ICU

#### NQF-endorsed™ NVCS for Nursing-Sensitive Care

- Smoking cessation counseling for AMI
- o. Smoking cessation counseling for pneumonia
- 11. Smoking cessation counseling for HF
- 12. Skill mix
- 13. Nursing care hours per patient day
- 14. Practice Environment Scale-Nursing Work Index (PESNWI)
- 15. Voluntary turnover

#### JCAHO/JC

#### Implementation Guide for the NQF Endorsed Nursing-Sensitive Care Performance Measures (2005)

- Provides detailed specifications for the 15 NQF endorsed measures.
- Available on the JC Connect Web site.

Where are the NQF Nurse Sensitive Measures in 2010?

## NEW NQF WEBSITE \*\*Sign up for updates\*\*

 A newly constructed Website contains all NQF endorsed measures, including those previously endorsed as nurse sensitive.

- Nurse sensitive measures have gone through measure maintenance and have now become part of the overall listing of 537 NQF endorsed measures.
- Smoking cessation measures have been retired.
- Let's review some examples of those integrated measures.

• NQF #0202

• Title: Falls with injury

• Status: Endorsed

• Endorsed on: AUG 05, 2009

• Steward: American Nurses Association

• **Description**: All documented patient falls with an injury level of minor (2) or greater.

#### **NQF** Measure

• NQF #0141

• Title: Patient Fall Rate

Status: Endorsed

• Endorsed on: AUG 05, 2009

• Steward: American Nurses Association

• **Description**: All documented falls, with or without injury, experienced by patients on an eligible unit in a calendar quarter.

- NQF #0101
- Title: Falls: Screening for Fall Risk
- Status: Time-Limited Endorsed
- Endorsed on: MAY 01, 2007
- **Steward:** National Committee for Quality Assurance
- **Description**: Percentage of patients aged 65 years and older who were screened for fall risk (2 or more falls in the past year or any fall with injury in the past year) at least once within 12 months

- NQF #0537
- Title: Multifactor Fall Risk Assessment Conducted in Patients 65 and Older
- Status: Time-Limited Endorsed
- Endorsed on: AUG 05, 2009
- Steward: Centers for Medicare & Medicaid Services
- **Description**: Percent of home health episodes in which the patient was 65 or older and was assessed for risk of falls (using a standardized and validated multi-factor Fall Risk Assessment) at start or resumption of home health care

NQF #0035 Title: Fall risk management in older adults: a. Discussing fall risk, b. Managing fall risk Status: Endorsed

- Endorsed on: MAY 01, 2006
- **Steward:** National Committee for Quality Assurance
- **Description**: Percentage of patients aged 75 and older who reported that their doctor or other health provider talked with them about falling or problems with balance or walking

Percentage of patients aged 75 and older who reported that their doctor or other health provider had done anything to help prevent falls or treat problems with balance or walking

- NQF #0201
- Title: Pressure ulcer prevalence
- Status: Endorsed
- Endorsed on: AUG 05, 2009
- **Steward:** The Joint Commission
- **Description**: The total number of patients that have hospital-acquired (nosocomial) stage II or greater pressure ulcers on the day of the prevalence study.

- NQF #0181
- Title: Increase in number of pressure ulcers
- Status: Endorsed
- Endorsed on: MAR 31, 2009
- **Steward**: Centers for Medicare & Medicaid Services
- **Description**: Percentage of patients who had an increase in the number of pressure ulcers

- NQF #0538
- Title: Pressure Ulcer Prevention Included in Plan of Care
- Status: Time-Limited Endorsed
- Endorsed on: AUG 05, 2009
- Steward: Centers for Medicare & Medicaid Services
- **Description**: Percent of patients with assessed risk for Pressure Ulcers whose physician-ordered plan of care includes intervention(s) to prevent them

NQF #0375

• Title: VTE Discharge Instructions

Status: Endorsed

• Endorsed on: MAY 15, 2008

• **Steward**: The Joint Commission

• **Description**: This measure assesses the number of patients diagnosed with confirmed VTE that are discharged to home, to home with home health or home hospice on warfarin with written discharge instructions that address all four criteria: compliance issues, dietary advice, follow-up monitoring, and information about the potential for adverse drug reactions/interactions.

- NQF #0330
- Title: 30-Day All-Cause Risk Standardized Readmission Rate Following Heart Failure Hospitalization (risk adjusted)
- Status: Endorsed
- Endorsed on: MAY 15, 2008
- Steward: Centers for Medicare & Medicaid Services
- **Description**: Hospital-specific, risk-standardized, 30-day all-cause readmission rates for Medicare feefor-service patients discharged from the hospital with a principal diagnosis of heart failure (HF).

# RWJ Nursing Engagement in Performance Measurement and Public Reporting

**Ellen Kurtzman, Project Leader George Washington University** 

Project Report Fall, 2009 RWJF WEBSITE/Newsletter

#### **New Priorities**

- Continuation of focus on top conditions and procedures
- Begin to work on six national priorities
- Begin to focus on harmonized measures across sites of care and types of providers

(Sessions today by Gerri Lamb and Karen Pace)

#### **National Priorities & Goals**

- 1. Ensure patients receive well-coordinated care across all providers, settings, and levels of care
  - Medication reconciliation
  - Preventable hospital readmissions
  - Preventable ED visits
- 2. Improve the health of the population
  - Preventive services
  - Healthy lifestyle behaviors
  - Population health index
- 3. Improve the safety and reliability of America's health care system
  - Hospital-level mortality rates
  - Serious adverse events
  - Healthcare associated infections

#### **National Priorities & Goals**

- 3. Engage patients and families in managing health and making decisions about care
  - Informed decision-making
  - Patient experience of care
  - Patient self-management
- 4. Guarantee appropriate and compassionate care for patients with life-limiting illnesses
  - Relief of physical symptoms; meet psychosocial and spiritual needs
  - Communication regarding treatment options and prognosis
  - Access to palliative care & hospice services
- 5. Eliminate waste while ensuring the delivery of appropriate care

#### Nursing, Quality & HIT

- To what extent do we link quality measures and HIT?
- Can the same data elements be used in documentation, decision support, reports, incentives?
- Can an intelligent electronic system (HIT, EHR, EPR) be developed where one click becomes a significant force?

#### Acknowledge

 Several of the next slides are attributed to a recent presentation at an ANA, AAN, NQF invitational conference, Priority Partners New Priorities; authored by:

Rosemary Kennedy

NQF

Carol Bickford

**ANA** 

Norma Lang

• Note other NQF presentations at this conference

## Where is Healthcare IT Today?

• "Despite a consensus that the use of HIT should lead to a safer more efficient system and higher quality care, there are no reliable estimates of the prevalence of adoption of EMR in US hospitals."

Jha, DesRoches, et al, NEJM, (2009)

## Health Information Technology Today's State



#### **Point of Care Technology**

- Focus: Patient Level Care Delivery
- Evidence-based not fully integrated in all HIT
- Some improvements in quality and safety
- Quality management still heavily retrospective and manual
- Data entry heavy data overload is high
- Measurement weak lack of clarity on what to measure

#### **Desired HIT State**

#### In Short.....

HIT, EHRs and PHRs must capture the necessary data to calculate measures; and provide clinical decision support (CDS) to providers to enhance performance.

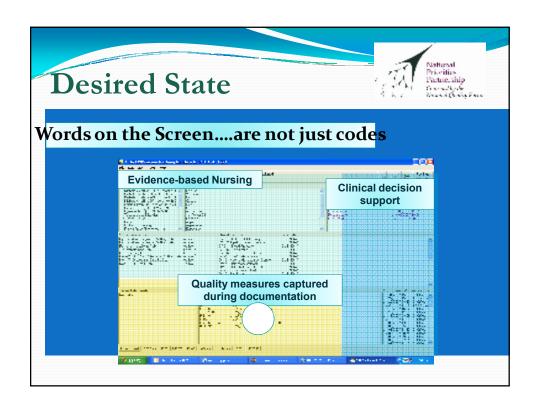
Establish an HIT infrastructure to fully support performance measurement and improvement requires close and ongoing collaboration between the "quality community" and the "HIT community."

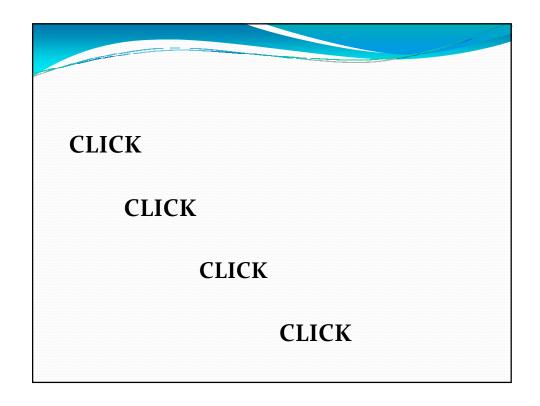
#### **US Goal:**

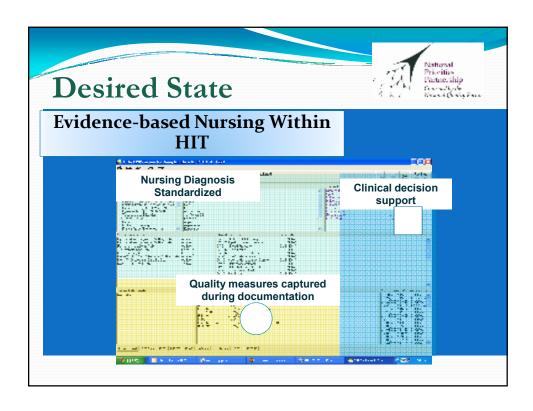
### "Meaningful Use" of Health Information Technology (HIT)

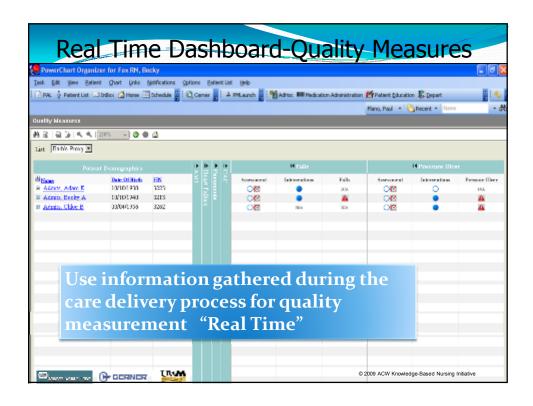
- "Meaningful Use" for Nursing Care?
- What are the Most Important Knowledge-Based Nursing Care Areas?
- What are the measures for these?
- Where can the measures be found in an electronic information system?
- Are these measures used for quality improvement?
- Are these measures ready for public reporting?
- Are these measures ready for pay for performance.



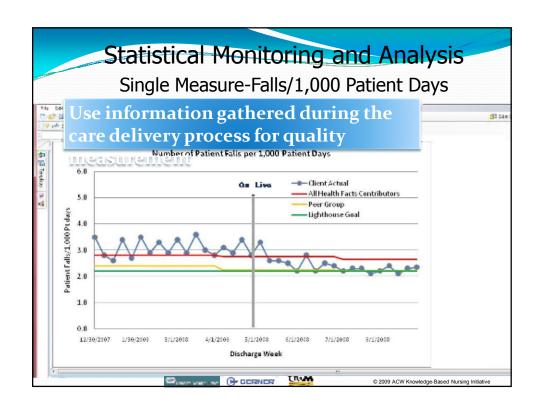


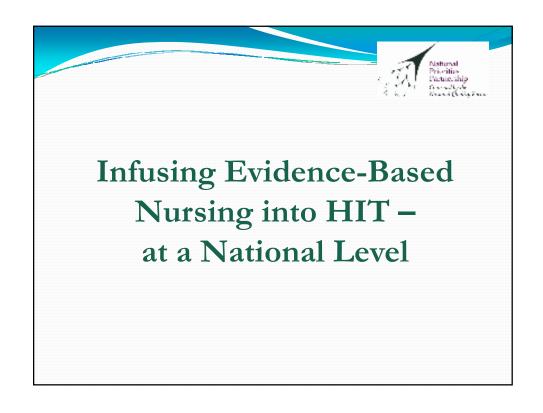


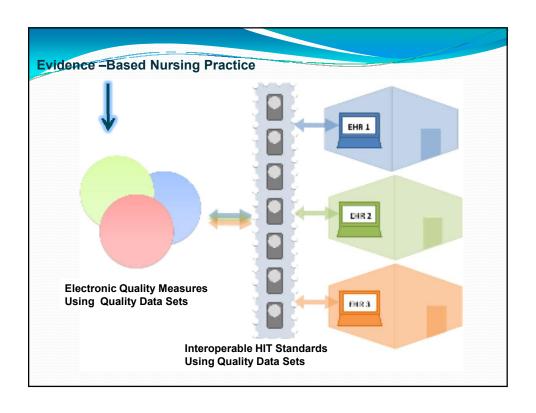


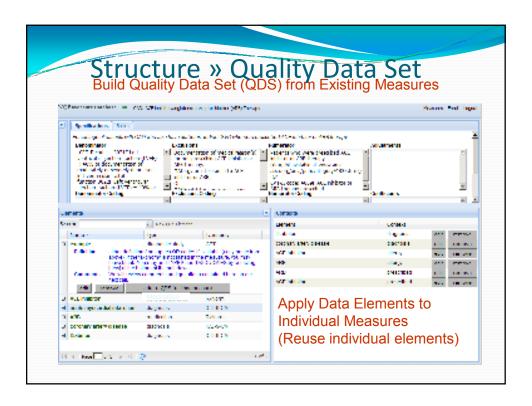


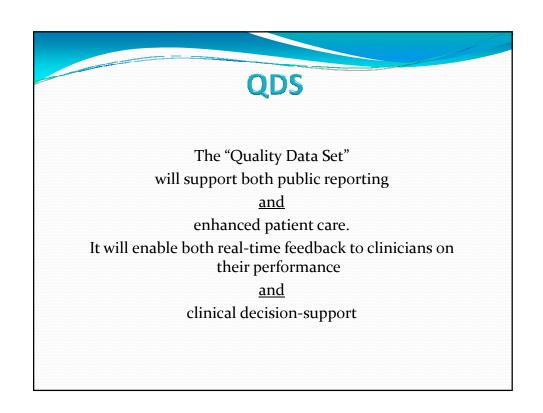
P	Shows trends in Stratified by key variable	y, monthl process	y and qu and out s: facilit	r <del>arterly</del> come ind y, nursing	icators		ng	
		Baseline Month	LH Goal	Current Month	YTD	Jun-08	Jul-08	Aug-
Demographic	Number of Discharges	222	222	237	689	208	244	
	Number of Patient Days	1,110	1,110	1,067	3,212	989	1,156	1,
	Number of Patients with a Fall	5	2	2	8	3	3	
	Number of Patients with an Injury from a Fall	2	0.7	1	3	1	1	
Assessment	% Patients Assessed within 24 Hours of Admission	73%	100%	95%	93%	92%	93%	
	% Patients Assessed Daily	52%	100%	84%	82%	82%	78%	
	% Patients Identified At Risk	56%	56%	57%	61%	59%	63%	
Plan of Care	% At Risk Patients with Fall Prevention Plan Initiated	67%	100%	82%	78%	84%	79%	
Treatment	% At Risk Patients with Education Documented	20%	100%	74%	67%	60%	80%	
Outcome	% At Risk Patients Prior to Fall	85%	100%	75%	80%	68%	82%	
	% Non-Risk Patients Prior to Fall	15%	0%	25%	20%	32%	18%	
	% Falls Resulting in an Injury	40%	33%	50%	38%	33%	33%	
	Number of Falls Per 1000 Patient Days	4.5	2.2	1.9	2.5	3.0	2.6	
	Number of Injuries Per 1000 Patient Days	2.2	0.7	0.9	9.6	1.0	0.9	
	Median Number of Admissions Between Falls	32	40	37	43	48	44	











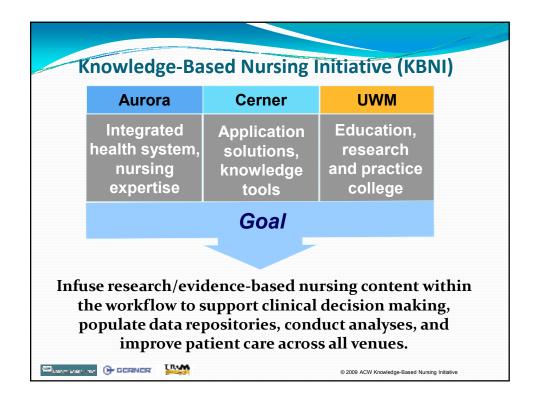
#### A Brief Update on the KBNI Project

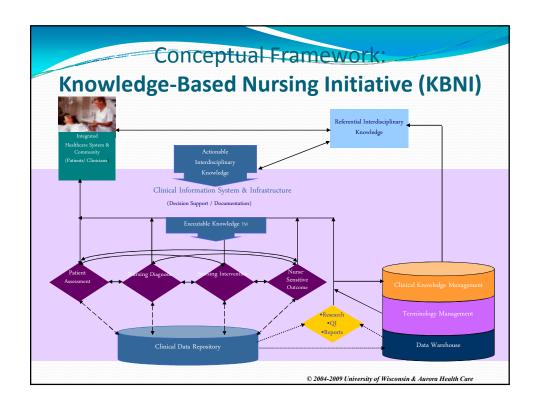
Acknowledge the Support of:

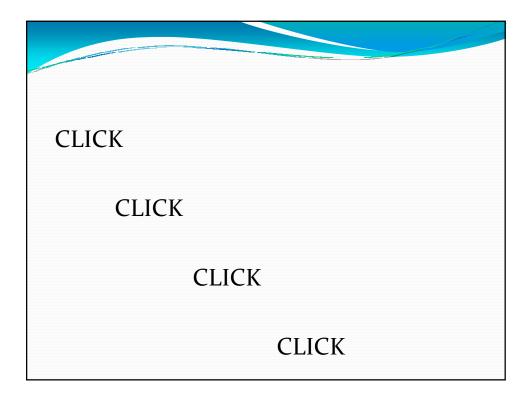
- 1) AHRQ ACTION Contract
- 2) National Science Foundation Grant
- 3) A partnership of Aurora Health Care, Cerner Corporation and the University of Wisconsin Milwaukee

#### Possible??

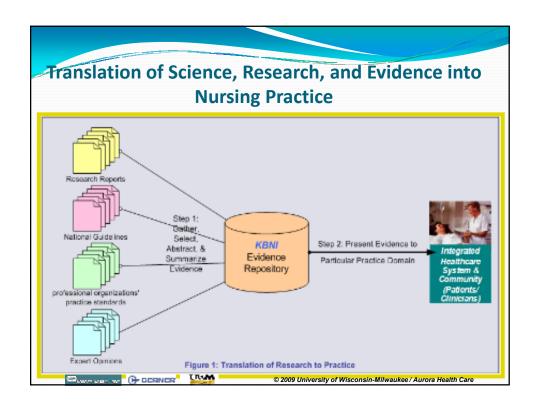
Can we really simultaneously transform practice and research as well as meet the increasing regulatory requirements?

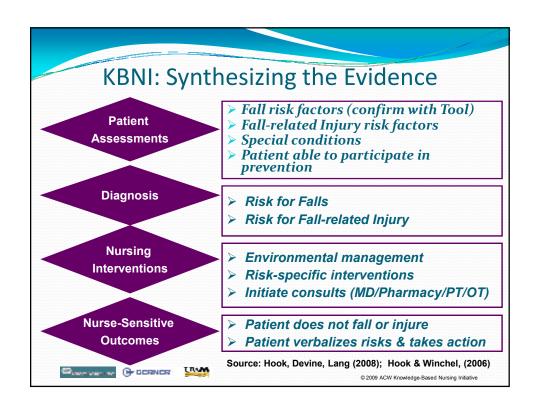


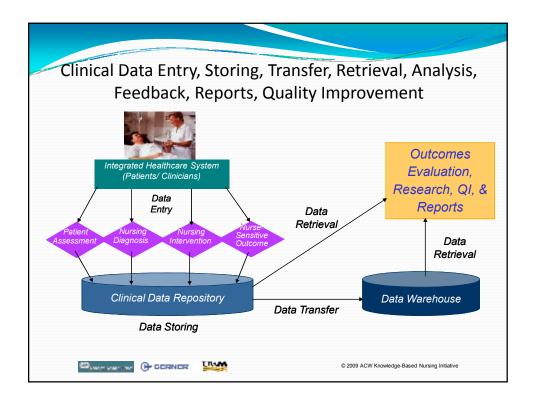




National Quality Indicators/Measures (for acute care)							
Falls prevalence	Falls prevalence	Falls prevalence					
Falls with injury	Falls with injuries	Falls with injuries					
Pressure ulcer prevalence	Pressure ulcer prevalence	Pressure ulcer prevalence					
Urinary tract infection (UTI) - ICU	Catheter associated urinary track infections						
Central line catheter- associated blood stream infection	Central Line associated blood stream infection						
Ventilator-associated pneumonia	Ventilator-assisted pneumonia (VAP)						
Restraint prevalence							
Failure to Rescue							
	© 2004-2009 University of Wisco	GERNOR LAND Autora Health Care. Used with permission.					







#### Success thus far:

- A research synthesis process that produces actionable knowledge for key nursing conditions/phenomena (twenty topics completed and in process)
- Standardized Terminology and coding for each data element used in designs and builds
- Design, build and implementation that includes researchers, IT experts and clinicians.







© 2009 ACW Knowledge-Based Nursing Initiative

#### Success (continued)

- Capability to secure and analyze valid and reliable operational and research data
- Implementing an AHRQ contract and a NSF grant to improve reports and to utilize other disciplines to help improve the use of terminology and data analysis.
- Celebrating when the best description of success comes from the clinicians.







#### Success Brings New Challenges Need **Thoughtful Solutions**

- Increase clinical centered research.
- The use of standardized terminology in nursing research and practice.
- Be aware of the increasing number of clicks, alerts, triggers in electronic information systems.







#### New Challenges (continued)

- Build relational data bases for the overlap of assessments, patient problems, interventions and outcomes.
- Carefully interface nursing and medical data elements.
- Consider the use of successful intelligent information systems to be included in direct patient care hours.







**CLICK** 

**CLICK** 

**CLICK** 

**CLICK** 

#### Many

Opportunities

Challenges

#### Thanks !!!!

QUESTIONS? ©

Comments? ©