

### Objectives

- Describe the key components influencing the nurses' experiences using their EHRs.
- 2. Critique findings of a statewide analysis of nurses' experiences using their EHRs.
- 3. Apply recommendations for improvement of the nurses' experiences to case study example

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- 1. Provide an update on the Texas Initiative by sharing strategies about the statewide activities
  - History
  - Charges
  - Survey Results

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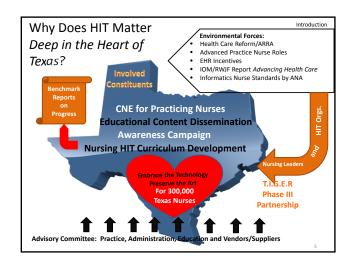
# **TNA/TONE Health IT Task Force**

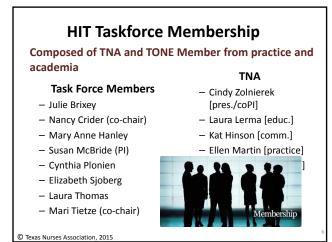
- Charge: Determine implications of health care informatics for nursing practice and education in Texas
- Include nationally-based Technology Informatics Guiding Education Reform (TIGER) initiative

Vision: To enable nurses and interprofessional colleagues to use informatics and emerging technologies to make healthcare safer, more effective, efficient, patient-centered, timely and equitable by interweaving evidence and technology seamlessly into practice, education and research fostering a learning healthcare system.

TNA = Texas Nurses Association TONE = Texas Organization of Nurse Executives

http://www.thetigerinitiative.org/







# Charge 1: Survey/Benchmark

Clinical Information Systems Implementation Evaluation Scale (CISIES) Survey\*

- 1) Launched early 2015, statewide
- 2) Over sampled rural hospitals in an effort to insure representation
- 3) To date over 1,000 responses received
- 4) Included a newly-developed\*\* EHR "maturity-index"
- 5) Preliminary results to follow
- \* = Gugerty, B.
- \*\* = McBride & Tietze

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# Charge 2: Publication/Commun./Network

- 1) Support the tool kit content/survey
- Establish/support local nursing informatics chapters DFW ANIA

**Gulf Coast ANIA** 

- 3) Coordinate publication schedule with TNA communications staff
- 4) Contributed to Ebola Outbreak awareness campaign

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# Charge 3: Toolkit

Content for toolkit

- 1) Use CISIES survey responses to guide toolkit content
- 2) Create and place on TNA and TONE Web sites

Two CNE Webinars are being proposed based on trends in the industry:

- 1) "Workflow versus Work-Arounds to Optimize EHR Patient Safety and Quality."
- 2) "Interoperability of Electronic Health Records."

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# Charge 4: Policy/Legislation

Renew the 2010 resolution and add the following content:

- 1) Interoperability
- 2) Meaningful Use

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- 3) Interprofessional Education/Collaboration
- 4) TIGER competencies initiative

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2016
26th Summer Institute in Nursing Informatics
Informatics at the Crossroads of Care Coordination
July 20-22, 2016
University of Marginal Subsciol Fluence, Marginal
TNA-TONE Statewide Study

# TNA-TONE Statewide Study Examining Nurses Use of EHRs

Analysis of Findings

### **Research Questions**

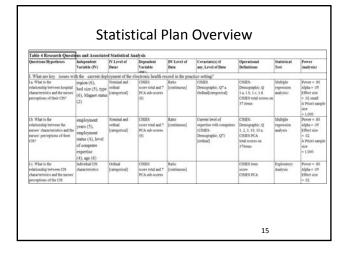
- What are key issues with the current deployment of the electronic health record in the practice setting?
  - What is the relationship between health setting characteristics and the nurses' perceptions of their CIS/EHR?
  - What is the relationship between the nurses' characteristics and the nurses' perceptions of their CIS/FHR?
  - What is the relationship between CIS characteristics and the nurses' perceptions of their CIS/EHR?
- What are the related core HIT competencies that could be covered in nursing education?

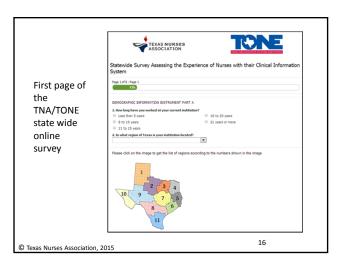
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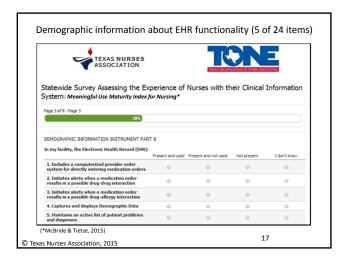
# Research Design

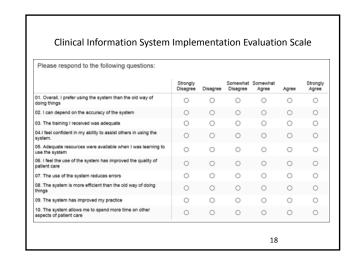
- A descriptive and exploratory research study of the current nursing workforce in Texas, using a previously validated survey instrument.
- Conducted in select acute care facilities and their associated acute care, ambulatory/episodic care and long term care (LTC) units (Texas Workforce Center), collectively "Health Care Organization" to answer the research questions.

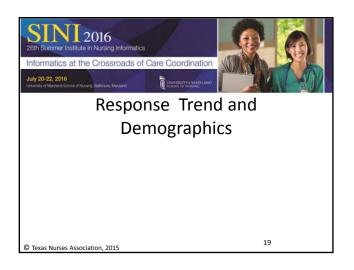
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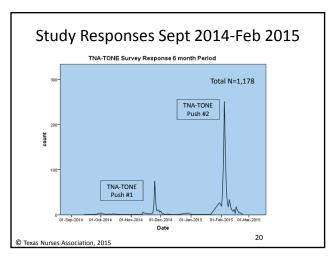


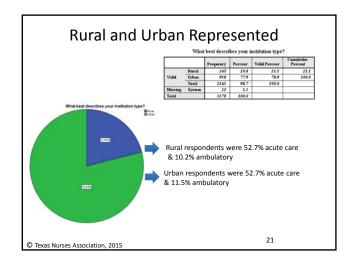


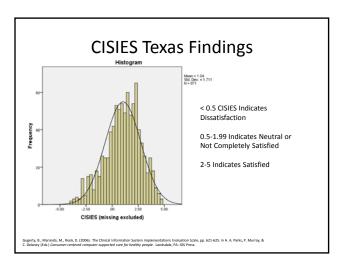


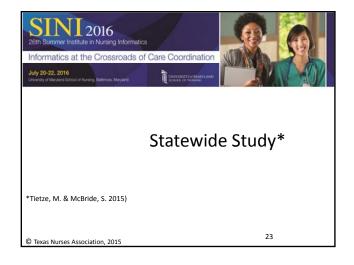


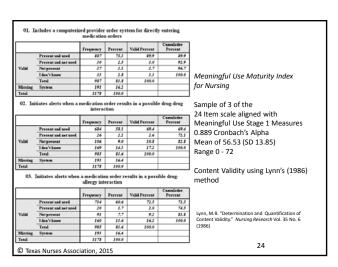


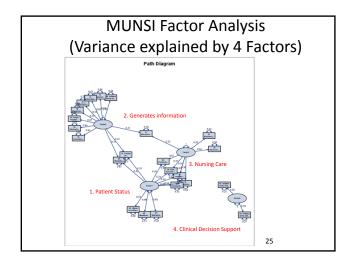


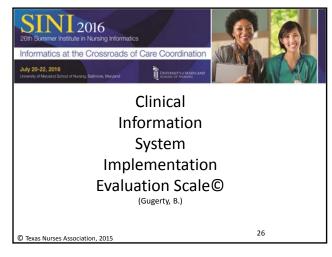


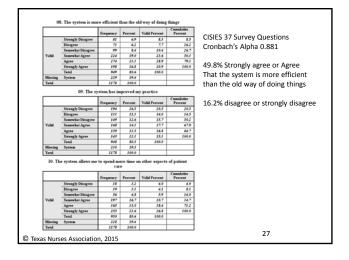


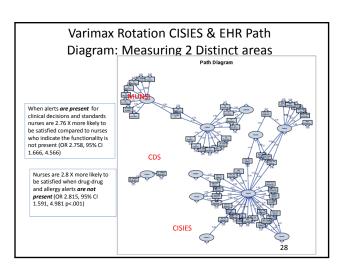


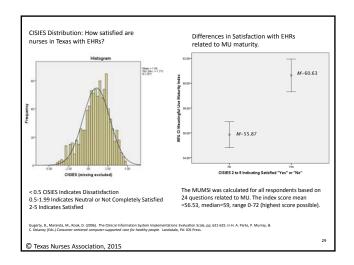


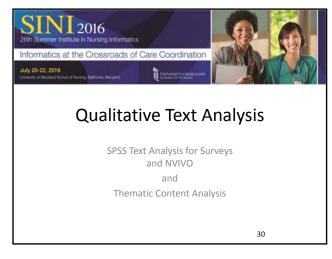


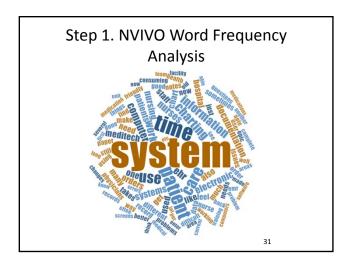












# Step 2. Patterns Identified in Text Analysis coded as dichotomous variables at respondent level

- EMR = 75 (6.4%)
- Charting = 65 (5.5%
- Nurses = 42 (3.6%)
- Information = 52 (4.4.%)
- Computer Sys = 189 (16%)
- Software = 110 (9.3%)
- Patient = 82 (7%)
- Care = 40 (3.4%)
- Time = 41 (3.5%
- Health = 16 (1.4%)
- Questions = 23 (2%)
- Healthcare = 61 (5.2%)
- Drugs = 20 (1.7%)

• Physicians = 31 (2.6%)

# Step 3. Thematic Content Analysis

- Most effective in identifying concepts and themes.
- We will examine categories or "themes" we have identified in the qualitative analysis, four examiners are looking at detailed text and have done the following:
  - Indicate "yes" I agree, or "no" I do not agree
  - If "no", then suggest what you would "name" the category of questions
- We need you indicate whether or not you believe we have "named" these themes correctly given subcategories associated with the themes/concepts.

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# Narrative Themes Regarding Nurse Experiences with CIS Information System Design Professional Ethics Quality, Standards

### Sample Statements Amplifying Themes

- Explanation
- Case study example.

# Information System Design

- Multiple systems/Navigation
- Product & equipment support
- Data
  - Information quality
  - Documentation
  - Outcomes

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# Patient Care, Quality and Standards

- Patient care delivery
  - Responses to care
- Time spent in CIS/
  - Workflow
  - Benchmark time with and away from patient
- Regulatory and Legal Issues

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# Organizational Culture and Social Justice

- Institutional standards and goals
  - Purpose of system
- Administration
  - Allocation of Resources:
    - Human
    - Physical
    - Financial

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# **Professional Ethics**

- Purpose and Role of Nursing
- Values
- Professional Comportment
- Satisfaction

2. Outline a sustainable health IT roadmap for other state, chapter, regional and local leaders to consider (Case Example)

- Partner with nurse executive organization
- Partner with academia [deans and faculty]
- Listen to practicing nurses
- Focus on competencies/skills such as TIGER Initiative
- "Connect the State"
- Include policy-based stakeholders
- Cross-pollinate with other national committees

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# 3. Summarize lessons learned in the planning, development and implementation of health IT for Texas

- Carefully select partners for research/surveys
- Be realistic about Internal Review Board (IRB) activities
- Address data ownership issues explicitly
- Test and double test all survey items
- Plan for succession early on
- Include adequate number of committee member to do the work
- Budget for at least one face-to-face meeting per year
- Consider strategy to engage with more legislative committees

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### **Recommendations of HIT Task Force**

- · Creation of educational content and dissemination
- Campaign to Raise Awareness
- HIT CNE for practicing nurses
- Nursing HIT curriculum development
- Constituent involvement [incl. TIGER]
- Benchmarking Reports Towards Progress
- Formation of Advisory Structure

