A Quest for Consensus in Documentation -

Prelude to an Epic Journey.....

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Overview

- Current state
- Project Vision & Guiding Principles
- Standardization (Why, What, How)
- Case Study: Nursing Assessment
- What did we accomplish?
- What did we learn?
- What’s next?
The Acute Care Documentation (ACD) Project

- Design, development and implementation of an electronic inpatient documentation system across two Academic Medical Centers!

- This was to be a *Documentation Merger*!

- **Scope**
  - Inpatient flow sheets
  - Inpatient notes
  - A “few” points of integration
Our (Complicated) Electronic Health Record

ED Documentation
- EDIS /Paper
- Paper/OE

ACD
- Inpatient flow sheets
- Inpatient daily notes

LMR
- Outpatient documentation/correspondence
- Out pt flow sheets

Order Entry/eMAR
- Inpatient orders
- Outpatient orders
  - PAML
  - PEAR
  - Discharge

Scanned Records
- Hand written
- Microsoft Word

Results
- Lab results (all sites)
- Radiology results
- Other test/procedure results (ECHO, cath, neuro, vascular, etc)

Other Documentation Systems
- Cardiac surgery
- Anesthesia (OR) documentation
- On call
- Meditech

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Current State: How we document today...

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Completely Illegible
How we document today…

Note/Vitals Written on Paper Towel and Placed in Chart
How we document today...

No Toner (Placed in Chart Anyway)
Mix of Writing/Typing

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Nursing Documentation Current State

✦ More than 15 different flow sheets
  • 12 ICU
  • General care units, NICU, PACU, others

✦ Multiple nursing note types
  • Synthesis notes, problem oriented notes
  • Education notes, transfer notes, discharge notes
  • Handwritten, Microsoft word
ACD – The Vision

**ACD Today**
- Available to only one person at a time
- Difficult to read
- Repeated transcription of same data
- Difficult to abstract or reuse data

**ACD Future**
- Available from onsite and remote computers
- Legible
- Able to import data (vitals, labs, meds, demographics)
- Coded data fields feed other databases and reporting tools

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ACD – The Vision

**ACD Today**

- High variability in clinical documentation workflow
- High variability in clinical documentation content
- No standardized nursing terminology

**ACD Future**

- Standardized workflow
- Standardized content
- Standardized nursing terminology
Why Standardize? Reduce Variability!

◊ Improve quality of care
  • Support/facilitate clinical communication and continuity of care
  • Facilitate/improve clinical outcomes measurement and management
  • Provide foundation for computer generated clinical decision support/guidance

◊ Improve care efficiency and cost management
  • Decrease (or more effective) documentation time
  • Online access to clinical data (save time looking for paper chart)
  • Support retrieval and reuse of data (eliminate redundant data capture/entry)
  • Support structured data capture (eliminate manual chart review)
  • Improved legibility

◊ Improve/facilitate regulatory compliance
  • Thoughtful use of required documentation fields

◊ Progress towards a single, electronic patient record
ACD Guiding Principles

- **Reusable data:** Entered once; used many times

- **Integrated approach:** We will not create silos of information

- **Intuitive User Interface**
  - Clinical data is presented in a comprehensive view
  - Ability to easily navigate to other applications (eMAR/OE)

- **Easy access:** To critical patient data for all care providers

- **Reduce documentation challenges and improve workflow**
  - Short term workflow disruption is to be expected.
This effort was different!

♦ Collaboration between two AMCs
  • Goal was to have the entire system be the same across two AMCs
  • The culture, workflow, policies, decision making bodies are different

♦ Multi-disciplinary
  • Involved MD/PAs, Nurses, Health Professionals, Social Workers and representatives from areas such as HIS, Bio-Med, Quality

♦ Decision-making was grass roots
  • Many Key decisions were made by bedside clinicians as opposed to executives/leaders

♦ Process change would be felt throughout all inpatient areas

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Joint ACD Committees

- **Steering and Business Owner Committee**
  - Executive and Operational leaders of the project

- **Clinical Content Governance Committee**
  - Review content and functionality
  - Make final decisions around content standardization

- **Nursing Documentation Committee**
  - Reviews decisions made in above meetings
  - Provides feedback and recommendations as appropriate

- **eMAR Integration Work Group**
  - Multidisciplinary team from nursing, pharmacy and IS
  - Make final decisions around functionality and work flow changes
Site Specific Nursing ACD Workgroups

- **Nursing Documentation Work Group**
  - Clinical nursing staff and Nurse Educators
  - Meets monthly to review content and application design

- **Clinical Content Committee**
  - Multidisciplinary workgroup
  - Review content and functionality; make recommendations

- **Nursing Informatics**
  - Reviews decisions made in above meetings
  - Provides feedback and recommendations as appropriate
What did we plan to standardize?

- **Multidisciplinary patient flow sheet**
  - More than 15 different flow sheets (12 ICU, General care units, others)
  - A shift from the “nurse’s flow sheet” to the “patient’s flow sheet”

- **Nursing note structure**
  - Synthesis notes, problem oriented notes
  - Education notes, transfer notes, discharge notes
  - Handwritten, Microsoft word

- **Initial/Admission Nursing Assessment**
  - Two forms with tightly held traditions

- **eMAR integration**
  - Different e-mar and pharmacy systems at each site

- **Multidisciplinary patient problem list**
  - Transition to “The Patient’s Problem List”
Standardization Step 1: Accelerated Design Sessions

◆ The Purpose:
  - To make key design decisions around critical elements of workflow and content to support clinical documentation

◆ The Approach:
  - Place a large number of clinicians (RN, MD, HP) from both AMCs into one room in order to reach consensus

◆ The Sessions:
  - Structured to drive consensus around defined topics
  - Nine all day session and one all day Report Out session
  - Designed to “build” upon decisions made in previous sessions
  - Decisions made were considered final!

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The Follow-up

- Establish clear processes to use the AD content:
  - Identify priority areas for content development
  - Define the content review & approval process
  - Standardize the process for conflict resolution
  - Define the selection of domain experts
  - Ensure broad review and collaboration during content development
- Sustain the momentum of established workgroups
- Articulate nursing practice so that the practice informs the electronic form
The Purpose:
- To review key decisions around the content in order to standardize terminology that came from AD sessions across disciplines.

The Approach:
- Representative multidisciplinary content teams at each site
- Areas of terminology overlap where data elements could potentially be consolidated were identified
- Overlap content from each discipline was reviewed with specific options for consolidation

The Sessions:
- Structured to drive consensus around defined topics.
- Decisions made were considered final!
The Process

- Content areas were prioritized
- Item-by-item review of all data elements by KM team
- Look for duplicates & attempt to consolidate
- Mapped to standard nomenclatures such as LOINC and SNOMED
- Naming conventions applied as appropriate
- Potential overlap data elements presented to Crosswalk teams
- Whenever possible, and depending on the context of the term, team reached consensus on ONE term
- Results of crosswalk reviewed at the other site, if disagreement resulted, the data element would return for further review until consensus was achieved
- Significant content changes or disagreement would get escalated to a joint content governance committee
## Crosswalk Example

### Vital signs content Current

<table>
<thead>
<tr>
<th>Nursing</th>
<th>Physician</th>
<th>Long Name</th>
<th>Short Name</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Temperature:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature (interfaced or manual entry)</td>
<td>Temperature (number)</td>
<td>Temperature</td>
<td>Temp</td>
<td>Perfer default to be F</td>
</tr>
<tr>
<td>Temperature Unit (C or F)</td>
<td></td>
<td>Temperature Unit (C or F)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature route (pick list)</td>
<td></td>
<td>Temperature route (pick list)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature management device used (pick list)</td>
<td></td>
<td>Temperature management device used (pick list)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature assist device used (pick list)</td>
<td></td>
<td>Temperature assist device used (pick list)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| **HR/Pulse:** | | | | |
| Heart rate/Pulse Rate (number) | Heart rate/Pulse Rate (number) | Heart Rate | HR | Can we ask x if they combine manual and interfaced? |
| Heart rate (number) | | | | |
| Measurement method (pick list) | | Heart Rate Measure Method (pick list) | | |
| Measurement sites (pick list) | Heart Rate Measurement Site | | | |
| Heart Rate Regularity (reg/irreg) | | Heart Rate Regularity (reg/irreg) | | |
Joint Nursing Documentation Committee

- Articulate our vision for electronic acute care nursing documentation
- Take a leadership role in establishing requirements for a system that captures the essence of nursing care.
- Decision making body for issues specific to nursing
- Identify sources of content and provide leadership around content vetting
- Define the level of specificity of data collected at the point of care.
Case Study: Standardization of Nursing Assessment

✧ The Purpose
  • Reach standardization of initial nursing assessment content and terminology based on evidence and best practice

✧ Current state
  • Accelerated Design sessions established a large inventory of potential assessment data elements
  • Nursing practice (content and workflow) was very different at both sites

✧ The Approach
  • Joint Nursing Assessment Task Force to determine
    • Which data elements to include
    • Which term to use to capture the concept
From the conceptual to the practical

1. We had extensive “final” content from ADS and from crosswalk.

2. We had ACD “authoring teams” ready to use the content to build the tool.

3. We had concerns about the impact on practice that the ADS content would cause

4. We expected and wanted a tool that would support good nursing practice

5. **We needed a method to help these teams make the best decisions about what content will be included or excluded in the assessment.**
There’s more to it

- Beyond helping the authoring teams “build” the tool there was much work to be done to achieve “best” nursing assessment practice

- Our mutual goal was to build an assessment tool that would:
  - Support good nursing practice (nurse sensitive problems & outcomes of nursing care)
  - Support the work of the bedside nurse (evidenced based nursing interventions)
  - Support a dynamic plan of care (future work)
    - Identify new knowledge
    - Apply knowledge to practice
The Process

Review the characteristics of expert nursing practice

Identify themes of assessment best practice in the literature and current practice

Establish guiding principles to inform nursing assessment content (help decide what to include/exclude)

Validation sessions to test against assessment data elements

Accept the guidelines and then use to inform our nursing assessment documentation development

Establish “use” guidelines which will inform our policy development for future nursing assessment practice.

Name this documentation tool!
Nursing Assessment Task Force

Our first session we asked and discussed these questions.

- Describe your practice as it relates to the nursing admission assessment.

- What, if any, information collected during your admission assessment do you deem critical to caring for your patient/family?

- Describe “ideal” nursing practice as it relates to the nursing admission assessment.
Nursing Assessment Practice: Themes for Inclusion

◊ Intentionally establishing a relationship
  • Welcoming, Trust
  • Intentional about understanding and responding to patient experiences
  • Partnership: patients perceptions influences & RN judgment shapes interventions

◊ Getting patients ‘settled’
  • Acclimating patient to the environment and to the RN
  • Caring, comfort, and safety
  • Physiologic stability

◊ Process: Not linear/Collaborative
  • Patient readiness
  • Assessment and judgment
  • Starts before RN meets patient

◊ Nurses: Continuum of development in practice
  • Language / open ended questions
Nursing Assessment Practice: Themes for Exclusion

- **Ongoing vs immediate need for data**
  - Info that would be needed after the first 24 hours
    - “important but not needed now”

- **Data captured in other places**
  - Data collected by other disciplines
  - Meds captured in PAML

- **Duplicates**
  - Eliminate the narrow in place of a more broad question

- **Information seen as having limited value**
  - Patient appropriate circumstances
  - “not the right question”
Nursing Assessment Task Force

• The Process
  • Review the characteristics of expert nursing practice
  • Identify themes of assessment best practice in the literature and current practice
  • Establish guiding principles to inform nursing assessment content (help decide what to include/exclude)
  • Validation sessions to test against assessment data elements
  • Accept the guidelines and then use to inform our nursing assessment documentation development
  • Establish “use” guidelines which will inform our policy development for future nursing assessment practice.
  • Name this documentation tool!

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Our next session we reviewed the themes and created “guiding principles”.

- Content guidelines will help the authoring team make more informed decisions regarding inclusion/exclusion of assessment content.

- Decisions based on guidelines are less likely to be based on tradition/habits/old ways.
Guidelines for Nursing Assessment Content Build

- Is this question mandatory?
  - The Joint Commission, CMS, DPH, other

- Is this question pertinent to patient safety?
  - Fall risk, Skin integrity risk, other

- Is this question critical for the short term?
  - Info required to provide immediate care

- Is this question required to formulate a nursing Plan of Care?
  - Wound care, other

- Does this question support initiation of a consult?
  - Nutrition, PT, Chaplaincy, other?
Does this question contribute to “getting the patient settled”? 
- Acclimated 
- Comfortable 
- Safe 
- Prepared

Does this question contribute to a mutual understanding of reason for hospitalization? 
- Reconcile any difference between nurses’ understanding of the reason for hospitalization with that of the patient’s.

Will this question help to describe the patient’s condition on admission? 
- Set a baseline health status.
Exclude

✧ Is this question required to formulate a discharge plan?
  • Info not critical to the immediate admission time frame

✧ Is this question critical for the long term?
  • Valuable information required as part of hospitalization, not required in the immediate admission time frame

✧ Is this question asked and documented by another discipline?
  • Eliminate duplicate documentation
  • Support validation of another discipline’s documentation

✧ Is the question covered elsewhere?
  • Eliminate duplicate/like questions

✧ Is this the right question or wording?
  • Did we get it right in Accelerated Design Sessions (ADS)?
Nursing Assessment Task Force

Our next session we validated the “guiding principles” against the AD assessment content.

- Groups were provided assessment data elements and “guiding principles”
- Asked to make inclusion/exclusion decisions using the guidelines.
- Large group review of results
- Process repeated using Nursing Documentation Committee
Validation Results

- Overwhelming consensus that content guidelines helped to make more informed decisions regarding inclusion/exclusion of assessment content.

- Less likely to make decisions based on tradition/habits/old ways

- Accepted guidelines with a few recommendations

- Final version of guidelines was the 4th version
Final List of Guiding Principles

- Is this question mandatory from a regulatory perspective?
- Is this question critical for the short term and does it contribute to “getting the patient settled”?
- Is this question required to formulate a nursing Plan of Care?
- Will this question contribute to a mutual understanding of the reason for hospitalization?
- Will this question help to describe the patient’s condition on admission?
- Is this question pertinent to patient safety?
- Will this question support initiation of a consult?
- Will this question help set a baseline health status?
- Is this question required to formulate a discharge plan?
- Is this question critical for the long term?
Nursing Assessment Task Force Results

- Guiding principles allowed the build team to identify a standard minimum assessment data set that was acceptable for use by both AMCs.

- Overwhelming consensus that applying guiding principles to the “build” process helped the team make informed inclusion/exclusion decisions versus decisions based on tradition/habits/old ways.

- Multi-site, standardized, electronic initial assessment was built and approved.
Standardization: Lessons Learned

✧ Right process
  • Project charter with clearly defined scope
  • Specific goals for each meeting with structured discussions
  • Each meeting built upon consensus achieved from previous meeting
  • Structured process valued participation and input from bedside nurses

✧ Right people
  • Nursing leadership
  • Novice and expert clinical nurses
  • Skilled nursing leadership facilitators

✧ Right goals
  • Task force members able to focus on goals and objectives of the work and able to leave behind “the way we have always done it” for the sake of a successful improvement initiative

✧ Right Outcome
  • Task force believed that the end product was even better than they had expected
What else did we accomplish?

- **Standardization of the patients flow sheet!**
  - Clinical staff experts and informatics nurses together reached consensus on thousands of data element terms to be “built” into ONE patient flow sheet.

- **Standardization of the nursing notes!**
  - Clinical staff experts and informatics nurses together reached consensus on a single format for progress note and transfer note

- Weekly meetings and e-room discussions/voting facilitated this tedious process
What did we learn?

- You can’t please all the people all the time...not everyone was happy ....
- Keeping the patient at the forefront of decision making helped to keep things on track
- That consensus and documentation standardization can be achieved with smart, dedicated, motivated people working towards the same goal....
- And.......
You better start swimming or sink like a stone, cause the times they are a-changing.

Bob Dylan
Our (Complicated) Electronic Health Record

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Electronic Health Record

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On to our Epic Journey!

After 3 years of consensus building and documentation standardization, a decision was made to replace the entire legacy system with a vendor system.

All the intellectual capital will be saved and reused!

The only way to make sense out of change is to plunge into it, move with it, and join the dance.

*Alan Watts*
"A positive attitude may not solve all your problems, but it will annoy enough people to make it worth the effort." - Herm Albright
Thank You!

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