



Linking Patient Data to Care Outcomes Through Electronic Health Records

Saturday, May 19 • 2:45-4 pm

Note one action you'll take after attending this session:

Cori Kopecky, MSN, RN, OCN

Periop Clinical Development Specialist UT MD Anderson Cancer Center casiska@mdanderson.org

Christina Boord, BSN, RN, OCN

Clinical Practice and Education Specialist University of Maryland Medical Center cboord@umm.edu

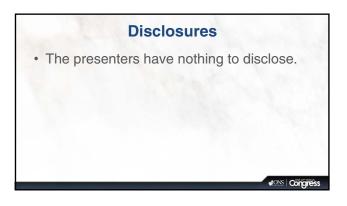
Key Session Takeaways

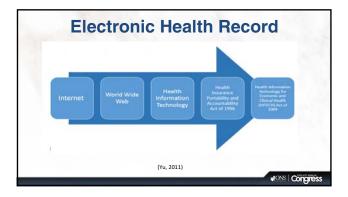
- 1. Thorough documentation regarding patient care is needed in oncology nursing practice.
- 2. Appropriate documentation in the electronic health record should be assessed in regard to oncological nursing principles.
- 3. Assessing oncology nursing practice is multifaceted and combines a myriad of clinical tools.





Cori Kopecky, MSN, RN, OCN Clinical Development Specialist The University of Texas M. D. Anderson Cancer Center









Purpose of EHR

- Increases visibility of care across the continuum of patient care
- More than a digital version of a patient's paper chart
- Links providers, patients, research, and health databases

ONS Congress

Purpose of EHR

- Allows for patients to be informed of their own healthcare
- Measures outcomes
- Evaluates the health care process
- Evaluates structure of providers, organizations, and facilities

(Friedberg & Landon, 2017)

Main Components of EHR

- Results Reporting Information System (RRIS)
 Ex: Laboratory
- Computerized Physician Order Entry System (CPOE)
- Clinical Decision Support System (CDSS)
 - Best practice advisories
 - Alerts

Nursing Perspective on EHR

The Good...The Bad... & The Ugly

- Greater access to information
- Timeliness of data availability real-time documentation
- · Logistical & design issues

Oncology Standards of EHR

- Clinical Oncology Requirements (CORE) project (NCI 2009)
- Collaboration with a team
 - Oncologists, academia, informatics, government
 - Examined functionality and barriers to EHR



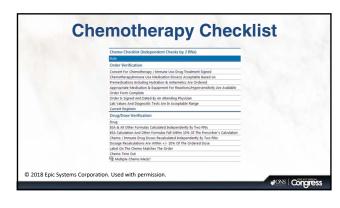


Hybrid System

- Laboratory uses different system
 Bridge between systems
- Paper order process for chemotherapy
 - Standardized orders on intranet
 - Process for new drugs/regimens

Oncology Specific Flowsheets

- Chemotherapy/Immune Use Drug Medication Administration Checklist
- High Dose Cytarabine Neurologic
 Assessment
- Chemotherapeutic Interruption Form



Combast E and a	Rose Enformation: A Debtors 5 at any up of centre
Cerebral Function	epiduation) Robinson Ageletica Section Scile (RAS); Nova Territ Securitian
RASS	ed Contactina Charley spinhartine, visianti, tronnestaria dangar to start • 1 funya aphitana funya ar nervasan futbolo, or
Mentation/Cognitive Status	 cathrange appreciate c) Applicate interpret inter-purposedul movement, Ramo sectivation c) Rentes activation
Headache (new onset or worsening)	appression regiments Distant and come -1. One-set years, shart, shut autoinneer exementing inter-communication autointic to
Seizure Activity	version (> Etherological) -3 Light exploring brandy available with ayer contract the verse (>5) executed
Nystagmus	 - O Motevale establism Moutevall er éjue operange to versión Bult ere establisme - O tesas assistantes has reagonate to versión, teut - O tesas assistantes has reagonate to versión, teut
Speech Pattern	elimination -3: Unamulation Noi requirinat foi voice or physice allocation
Handwriting	Providuos for ASSE Assessment 3. Observe patient 9. millione automatical, or aphatest (source
Point to Point Testing (Hands & Feet)	2 No =40 3. If not any, state patient's ranks and say for other and and wall an assessment.
Rapid Alternating Movements (Hands &	 Referit assessments with subtantial arya spectrage and any contract, second -0. Referit assessment with any contract, and arya
Arm Tremor	contract, but not automatic (source -1) it. Patient has any measurement to request to the value but not ave contract, (source -2)
Gait	Exterior na response to vertes atimustation, projectivity transitional patients (a provincing atimustate analytic rutaming internum. • Instance files and increases to province
Romberg Test	stimulation; people (4) C.Patent has no response to any stimulation. Issues (3)

Reason for Chemotherapy Interruption	
Reason For Interruption	
Chemotherapy & Amounts Administered	
Fee Number of Medications	
Provider Notification	
Provider Notification	
Provider Name	
Method of Communication	
Reason for Communication	
Response	

Chemotherapy Checklist

- Gap in practice identified – Failure to use checklist as a checklist
- Education focus during annual simulation

Head to Toe Assessments

- New: documentation by exception
- Large turnover of staff
- Variation in preceptors

Documentation Standard Guide

- Quick reference guide
 - Carry-over lines, drains, incisions, and airway
 - Admission/Shift Assessments
 - Timeouts
 - Blood
 - Bedside handoff elements and
 - documentation



MD Anderson Cancer Center

- Transition process to fully integrated EHR began in 2012
- Go-live March 2016
- Diverse group of stakeholders involved in planning and implementation process

MD Anderson Cancer Center

- Collaboration between providers and interdisciplinary team members
- Nursing informatics and EHR analysts
- Direct patient care representatives
- · Partnership with patients/caregivers

10NS Congress

Sustainability

- New Hires
- Graduate Nurses
- · Rotating medical staff (i.e. Residents)
- Current employees

1015 Congress

New Hires at UMMC

- Centralized Clinical Informatics Group
 Learn functionality of system
- Unit Preceptors
- Follow Orientation Checklist

Chart Audits

- 1 chart/month
- First-hand view of unit compliance
- Encourages self-evaluation
- Supports TJC readiness



Reports and Compliance

- Chlorhexidine gluconate (CHG) compliance (Daily)
- Pressure Injury Surveillance (Daily)
- Pain Assessment/Reassessment (Weekly)
- Blood Administration Documentation (Weekly)



Unit/Bed	CHG Bath Status	
N9W / 44-A	Refused	
N9W / 46-A	CHG bath/si	nower
N9W / 47-A	•	
N9W / 48-A	No docume	ntation
N9W / 49-A	 Bath/showe 	r
N9W / 50-A	•	
N9W / 53-A	•	
N9W / 68-A	•	
N9W / 69-A	•	
N9W / 70-A	•	
N9W / 71-A	•	
N9W / 72-A	•	



Pressure Injury: Daily Report

- Review daily report of patients with low score (i.e. Braden)
- Collaboration with W.O.C.N. and nurse to provide prophylactic or treatment regimen

HONS Congress

• Provide a well-rounded approach for patient's plan of care

Pain Assessment: Weekly Report

PRN Pain reassessment:

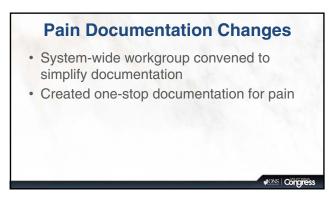
- Compliance decreased after conversion to new EHR
- · Education to mimic old system
- Development of RN Dashboard

Leadership/Management/Education



Pain Reassessments

- Reminders at computer stations
- Weekly emails
- Monthly winner
- Compliance improvement



Blood Admin: Weekly Report

- Education regarding documentation needed for blood bank accreditation
 Review of proper workflow
 Changes to flowsheet rows for better support of workflow
 Torrested re-aducation for personalization
- Targeted re-education for noncompliance

MONS Congress



Care Plans • Patient/Family - daily goal • Nurse - priority goals based on admission diagnosis and assessment

Patient Education

- Modeled after Ask Me 3
- 4Q format
- Provides consistent message
- Pre-population of titles based on orders
- Over 300 education titles





Clinical Information Council/ Informatics Resource Nurses

- Discuss concerns
- Ask for feedback
- Preview upcoming changes, reminders, or upgrade
- Subgroup: SuperUsers

User Design Centers

- Clinical Informatics
- Representation from each hospital within the system
- Stakeholders/end users



Driving Change and Outcomes

- Improves cancer screening tools for primary prevention
- Motivates hospitals to improve their performance
- Allows access to patient data over time
 Clinical
 - Lab
 - Imaging

Barriers to EHR

- Cost
- Reliability and accessibility
- Lack of commitment
- Unwillingness to change clinical and business processess
- Logistics

(Kulkarni, 2016)

Key Takeaways

- Thorough documentation regarding patient care is needed in oncology nursing practice.
- Appropriate documentation in the electronic health record should be assessed in regards to oncological nursing principles.
- Assessing oncology nursing practice is multifaceted and combines a myriad of clinical tools.

ONS 43rd Annual Congress

References

- All my roads (2017). Retrieved from https://allmyroads.com/scared-baby-2/,
- Hanna-Barbera/Everett Collection (2017). Retrieved from http://ew.com/tv/he-jetsonscasting/meet-the-jetsons.
- Fasola, G., Macerelli, M., Follador, A., Rihawi, K., Aprile, G., & Della Mea, V. (2014). Health information technology in oncology practice: A Literature review. *Cancer Informatics*, 13,131-139. doi: 10.4137/CIN.S12417
- Friedberg, M. & Landon, B. (2017). Measuring quality in hospitals in the United States. In J.A.Melin (Ed.), Up7DDate. Retrieved November 8, 2017, from https://www.uptodate.com/contents/measuring-quality-in-hospitals-in-the-unitedstates?source=search_result&search=electronic%20health%20record&selectedTitle=1~150
- Kulkarni, K. (2016). The continuing evolution of technology in cancer care. Future Oncology, 12:17, 1961-1965. doi:10.2217/fon-2016-0089

References

- Officeworks (2018). Retrieved from https://www.officeworks.com.au/shop/officeworks/p/noboquantum-overhead-projector-grey-2511-ac190059au
- Stokowski, L. (2013, September 12). Electronic nursing documentation: Charting new territory. [Web log comment]. Retrieved from https://www.medscape.com/viewarticle/810573
- Yu, P.P. (2011). The evolution of oncology electronic health records. Cancer Journal, 17, 197-202. doi:10.1097/PPO.0b013e3182269629
- Val lawless/Shutterstock (2017). Retrieved from http://www.safebee.com/health/how-and-whyaccess-your-medical-records
- Wheatley, K. (2016). Retrieved from http://www.ustornadoes.com/wpcontent/uploads/2016/05/Joplin1.jpg
- XIXinXing/Shutterstock (2018). Retrieved from http://scrubsmag.com/12-tips-for-effective-andefficient-documentation