Publishing Activities

Peer-Reviewed Articles
Oral Presentations and Posters

March 5, 2018
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Scientific Publications

1. **THE RI ASSOCIATION WITH POSTDISCHARGE ADVERSE EVENTS AFTER HIP FRACTURE SURGERY**
   *The Rothman Index Is Associated With Postdischarge Adverse Events After Hip Fracture Surgery in Geriatric Patients*,
   McIlvain RP, Ottesen TD, Cui JJ, Rubin LE, and Grauer JH, National Center for Biotechnology Information, February 05, 2018.

2. **PREDICTING SHORT-TERM MORTALITY FOR ADVANCED CANCER PATIENTS USING THE RI**

3. **THE RI AS A PREDICTOR OF POSTDISCHARGE ADVERSE EVENTS AFTER ELECTIVE SPINE SURGERY**

4. **PREDICTION OF ADVERSE EVENTS IN PATIENTS UNDERGOING MAJOR CARDIOVASCULAR PROCEDURES**

5. **ROTHMAN INDEX PREDICTS ICU MORTALITY AT 24 HOURS**

6. **UTILIZING THE ROTHMAN INDEX TO PREDICT CLINICAL DETERIORATION**

7. **USING THE RI AS A PALLIATIVE CARE TRIGGER**
   *Using the Rothman Index and Length of Stay as a Trigger for Palliative Care in the Medical Intensive Care Unit and Step-Down Units*, Rebecca Gagne Henderson, MSN, APRN, ACHPN, Barbara McCloskey, DNP, RN, Ellen Walter, BSN, RN, Joan Rimar, DNP, RN, Mei Bai, PhD, RN, Ernest D. Moritz, MD, *Journal of Hospice & Palliative Nursing*, June 2017 - Volume 19 - Issue 3 - p 232-237.

8. **IDENTIFYING ONCOLOGY PATIENTS AT RISK FOR POSTOPERATIVE READMISSION**

9. **ROTHMAN INDEX PREDICTS PERIOPERATIVE OUTCOMES AFTER LUNG TRANSPLANTATION**

10. **HEALTH SPILLOVERS AMONG HOSPITAL PATIENTS**

11. **PEDIATRIC RI MODEL DEVELOPMENT AND VALIDATION**
12 EARLIER IDENTIFICATION OF SEPSIS USING THE ROTHMAN INDEX

13 USING AN EMR-BASED ACUITY SCORE TO REDUCE MORTALITY AT AN ACADEMIC MEDICAL CENTER

14 PATIENTS NEGATIVELY IMPACTED BY DISCONTINUITY OF NURSING CARE DURING ACUTE HOSPITALIZATION
Patients Negatively Impacted by Discontinuity of Nursing Care During Acute Hospitalization, Olga Yakusheva, PhD, Deena K. Costa, PhD, RN, and Marianne Weiss, DNSc, RN Medical Care November 2016

15 IDENTIFYING PATIENTS AT RISK FOR 30-DAY READMISSION, HIGH COST, AND LONGER LOS
Assessment of a Novel Tool for Identifying Hospitalized Patients with Heart Failure At Risk for 30-Day Readmission, High Cost, And Longer Length of Stay, Karen Meri Banoff, Kerry Milner, Joan Rimar, Anna E. Greer and Maureen Canavan Nursing Economics/July-August 2016/Vol. 34/No.4

16 PREDICTING CARDIO-PULMONARY ARREST
The Performance of the Rothman Index in the Prediction of In-Hospital Cardio-Pulmonary Arrest in Adults [abstract], Malkhasyan K, Brian P, Rimar J, Andreozzi A, Hannah-Shmouni F, Donohue T. Journal of Hospital Medicine 2016; 11 (suppl 1).

17 USE OF RI IN DETERMINING SEVERITY OF ILLNESS

18 PREDICTIVE VALUE OF ROTHMAN INDEX IN PATIENTS THAT DEVELOP FEBRILE NEUTROPENIA

19 USING A NURSING SWAT (RRT) TEAM TO REDUCE MORTALITY AT A COMMUNITY HOSPITAL
Mortality Reduction Associated with Proactive Use of EMR-Based Acuity Score by an RN Team at an Urban Hospital, Michael Rothman, PhD, Joan Rimar, Sheila Coonan, Stephan Allegretto, Thomas Balcezak, IHI Scientific Symposium, BMJ Quality & Safety Supplement, Nov, 2015.

20 USE OF RI IN ICU CAPACITY MANAGEMENT
Impact of Severity-Adjusted Workload on Health Status of Patients Discharged from an ICU, Song - Hee (Haley) Kim, Edieal Pinker, Joan Rimar, Elizabeth Bradley, Social Science Research Network, SSRN, August 14, 2015.

21 DETECTING NEED FOR INTERVENTION AT A PEDIATRIC HOSPITAL
Evaluation of Electronic Medical Record Vital Sign Data versus a Commercially Available Acuity Score in Predicting Need for Critical Intervention at a Tertiary Children’s Hospital Model, Yong Sing da Silva, MD, Melinda Fiedor Hamilton, MD, MSc, Christopher Horvat1, MD, Ericka L. Fink, MD, MS, Fereshteh Palmer, MS, Andrew J. Nowalk, MD, PhD, Robert S. B. Clark, MD, Pediatric Critical Care Medicine. 2015.

22 IDENTIFICATION OF HEART FAILURE PATIENTS AT RISK FOR READMISSION, LONGER LENGTH OF STAY AND HIGH COST

23 PREDICTING DISCHARGE AND READMISSION RATES IN AN INPATIENT HEMATOLOGY
Using the Rothman Index to Predict Discharge and Readmission Rates in an Inpatient Hematology Unit. Roger Y. Kim, Xiaopan Yao, Peter Longley, Joan Rimar, Chryssanthi Kournioti and Alfred Ian Lee, The American Society of Hematology, December 4, 2014- vol. 124 no. 21 1302 DOI: https://doi.org/
24. **DETERMINING THE IMPACT OF ATTENDING PHYSICIANS ON OUTCOMES**


25. **DETERMINING THE IMPACT OF INDIVIDUAL NURSES ON OUTCOMES**

Nurse Value-Added and Patient Outcomes in Acute Care, Olga Yakusheva (Marquette University), Health Services Research (2014), invited submission to Best of Academy Health Annual Research Meeting - 2014., DOI: 10.1111/1475-6773.12236.

26. **EVALUATING THE IMPACT OF NURSING EDUCATION**

Economic Evaluation of the 80% Baccalaureate Nurse Workforce Recommendation – A Patient-level Analysis, Olga Yakusheva, PhD, Richard Lindrooth, PhD, and Marianne Weiss, DNSc, RN Olga Yakusheva (Marquette University), Medical Care 2014, 52(10), 864-869.

27. **APPLICATION OF RI TO PREVENT ICU READMISSIONS**

Using the Rothman index to prevent early unplanned surgical intensive care unit readmissions, Greta L. Piper, MD*, Lewis J. Kaplan, MD, FACS, FCCM, FCCP*, Adrian A Maung, MD*, Felix Y. Lui, MD, FACS*, Kimberly Barre, RN*, Kimberly A. Davis, MD, MBA, FACS, FCCM, Yale University School of Medicine, J of Trauma and Acute Care Surgery, 77(1) 2014 pp78-82.

28. **PALLIATIVE CARE - A CASE STUDY**

Shared Decision-making at End-of-life is Aided by Graphical Trending of Illness Severity, David B. Bittleman, MD, G. Duncan Finlay, MD, Alan B. Solinger, PhD, BMJ Case Reports, 2014, published online 13 January 2014. doi: 10.1136/bcr-2013-201522.

29. **COMPARISON OF THE ROTHMAN INDEX WITH MEWS**


30. **VALIDATION OF THE ROTHMAN INDEX TO IDENTIFY PATIENTS AT RISK OF READMISSION WITHIN 30-DAYS**

Identifying Patients at Increased Risk for Unplanned Readmission, Elizabeth Bradley, PhD (1), Olga Yakusheva, PhD (2), Leora I. Horwitz, MD (3), Heather Sipsma, PhD (1), Jason Fletcher, PhD (1) (1) – Yale School of Public Health, (2) – Dept. of Economics Marquette University, (3) – Yale University School of Medicine (Center for Outcomes Research & Evaluation) Medical Care, 51(9) 2013 pp761-766.

a. A SPECIAL EDITORIAL in MEDICAL CARE

Big Data Meets the Electronic Medical Record: A Commentary on “Identifying Patients at Increased Risk for Unplanned Readmission” Greg de Lissovoy PhD, MPH Medical Care, 51(9) 2013 pp759-760.

31. **CLINICAL RESULTS FROM ORLANDO REGIONAL MEDICAL CENTER – UNPLANNED TRANSFERS TO ICU**


32. **RETROSPECTIVE STUDY OF THE ROTHMAN INDEX AS A PREDICTOR OF POST-OPERATIVE COMPLICATIONS FOR COLORECTAL SURGERY**

Automated Analysis of Electronic Medical Record Data Reflects the Pathophysiology of Surgical Complications, Joseph J. Tepas, MD, U of Florida College of Medicine, Allen L. Hsiao, MD, Yale University School of Medicine and Yale New Haven Hospital, Joan M. Rimar, DNSc, RN, Yale New Haven Hospital. Surgery. Oct 2013;154(4):918–26.

33. **RI MODEL DEVELOPMENT AND VALIDATION**

A NOVEL WAY OF INTERPRETING RISK IN LABORATORY RESULTS
Risks of Mortality Associated with Common Laboratory Tests: A novel, simple and meaningful way to set Decision Limits from data available in the Electronic Medical Record, Steven I. Rothman, Alan B. Solinger - Clinical Chemistry and Laboratory Medicine 51(5) 2013.

EXCESS RISK METHOD
Placing clinical variables on a common linear scale of empirically-based risk as a step toward construction of a general patient acuity score from the Electronic Health Record: A modeling study – Steven I. Rothman, Michael J. Rothman, Alan B. Solinger, BMJ Open 3(5) 2013.

CLINICAL VALIDITY OF NURSING ASSESSMENTS
Clinical Implications and Validity of Nursing Assessments: A Longitudinal Measure of Patient Condition from Analysis of the Electronic Medical Record – Michael J. Rothman, Alan B. Solinger, Steven I. Rothman, G. Duncan Finlay, BMJ Open 2(4) 2012.

CLINICAL RESULTS FROM ORLANDO REGIONAL MEDICAL CENTER – IMPROVING ROUNding FOR RAPID RESPONSE TEAMS
Oral Presentations and Posters

1. APPLYING PREDICTIVE ANALYTICS TO REDUCE HOSPITAL MORTALITY

2. DOES A TRACK AND TRIGGER SYSTEM PROMOTE TIMELY INTERVENTION?

3. A MULTIDISCIPLINARY APPROACH TO IDENTIFYING ILL PATIENTS IMPROVES SEPSIS SURVIVAL

4. LEVERAGING THE USE OF EHR DATA
   Development and Validation of a Continuously Age-Adjusted Measure of Patient Condition for Hospitalized Children Using the Electronic Medical Record, Michael Rothman, AMIA 2017 Annual Symposium, November 5, 2017. Oral Presentation

5. THE EFFECTIVENESS OF “TRACK AND TRIGGER” SYSTEMS
   The Effectiveness of “Track and Trigger” Systems with Deteriorating Patients, Heather Nolette, BSN, RN, 9th Annual Nursing Research & Evidence-Based Practice Symposium, November 2-3, 2017. Poster Presentation

6. ROTHMAN INDEX PREDICTS ICU MORTALITY AT 24 HOURS
   Rothman Index Predicts ICU Mortality at 24 Hours, Michael Perkins, Melissa Krauer, Shyoko Honiden, Jonathan Siner, Junchao Ma, Donald Lee, Edieal Pinker, Margaret Pisani, CHEST Annual Meeting 2017, October 31, 2017. Oral Presentation

7. REDUCING MORTALITY THROUGH THE USE OF AN EARLY WARNING SYSTEM
   Reducing Mortality Through the Use of an Early Warning System, Katherine Walsh, MS, Dr PH, RN, Meredith Cowan, MS, RN-C, RNC-OB, ANCC National Magnet Conference, October 13, 2017. Oral Presentation

8. LEVERAGING TELEHEALTH STRATEGIES TO PROVIDE PATIENT SAFETY
   Advancing Your Telehealth Strategy to Deliver Value-Based Care, Better Serve At-Risk Populations and Increase Efficiency, Daria Byrne EdD, MSN, RN, Health IT Summit: Nashville, June 27, 2017. Oral Presentation

9. QUANTIFYING PATIENT CONDITION
   Intelligent Surveillance: Quantifying Patient Condition, Michael Rothman, PhD, Health IT Summit: Boston, June 15, 2017. Oral Presentation

10. IMPLEMENTATION OF A CLINICAL SURVEILLANCE TOOL

11. EVALUATION OF THE ROTHMAN INDEX
    Story Behind the Score: In-depth Evaluation of the Pediatric Rothman Index as a Clinical Decision Support Tool, Meredith Winter, MD, The 13th International Conference on Rapid Response Systems and Medical Emergency Teams, May 12, 2017. Oral Presentation

12. CLINICAL VIGNETTES & INNOVATIONS
13 COMPARISON OF EXISTING PEDIATRIC EARLY WARNING SCORES AND THEIR BENEFITS AND DRAWBACKS

14 A RESEARCH AND QUALITY IMPROVEMENT AGENDA FOR PEDIATRIC RAPID RESPONSE SYSTEMS

15 STUDY OF THE PREDICTIVE VALUE OF THE ROTHMAN INDEX
Rothman Index has Good Predictive Value for Mortality in a Large Academic Medical Center, Carlos Pacheco MD, Carol Scholle, Sarah Cua-Martin, Darlene Lovaasik MN, RN, CCRN-K, Colleen Cochenour MSN, RN-BC, Richard L. Simmons MD, Raghavan Munugan MD The 13th International Conference on Rapid Response Systems and Medical Emergency Teams, May 11, 2017.

16 TRANSFORMING DATA INTO LIFESAVING INTELLIGENCE
Predictive Analytics: Transforming Data into Lifesaving Intelligence, Carolyn Scott, Chicago Health IT Summit, May 11, 2017. Oral Presentation

17 VALUE OF THE ROTHMAN INDEX IN PREVENTING READMISSIONS
The Preventable Readmissions Reduction Situation and IT's Charge to Help: Panel Discussion, Michael Rothman, PhD, San Jose Health IT Summit, April 13, 2017. Oral Presentation

18 MORTALITY REDUCTION CASE STUDY

19 USING AN EMR-BASED ACUITY SCORE TO REDUCE MORTALITY AT AN ACADEMIC MEDICAL CENTER
Mortality Reduction Associated with Surveillance Using an EMR-based Acuity Score at an Academic Medical Center, Katherine Walsh, 28th Annual IHI Scientific Symposium, December 5, 2016. Oral Presentation

20 PEDIATRIC PREDICTOR OF ACUTE CARE TO INTENSIVE CARE TRANSFER
A Commercially Available Acuity Score is a Predictor of Acute Care to Intensive Care Transfer, Christopher M. Horvat MD, Srinivasan Suresh MD, Fereshteh Palmer MS, Melinda Fidor Hamilton MD, George S. Almasi PhD, Jaclyn Ashline BSN, Michael J. Rothman PhD, and Robert S. Clark MD, 8th World Congress on Pediatric Intensive and Critical Care, June 4-8, 2016.

21 RI-BASED SWAT TEAM SURVEILLANCE REDUCES MORTALITY

22 PROACTIVE ROUNDING BY RRT REDUCES CODE BLUES

23 IMPLEMENTATION OF CONDITION E TO ENHANCE INTERVENTION TIMELINESS

24 PREDICTING POST-DISCHARGE ADVERSE EVENTS IN A MICU
Rothman Index as a predictor of post-discharge adverse events in a Medical Intensive Care Unit, Deepa B. Gotur, Janice Zimmerman, CHEST World Congress, April 14-17, 2016.

25 EMR SURVEILLANCE INTERVENES TO REDUCE RISK ADJUSTED MORTALITY
EMR Surveillance Intervenes to Reduce Risk Adjusted Mortality, Katherine Walsh, DrPH, Michael Rothman, PhD, HIMSS16 Annual Conference, March 2, 2016.
26 PREDICTING CARDIAC ARREST IN A CICU
*Retrospective Evaluation of the Pediatric Rothman Index as a Predictor of Cardiac Arrest in a CICU*, Christopher Horvat, MD, Joan Sanchez-de-Toledo, MD PhD, Sarah Wilson, Fereshteh Palmer, RN BSN, Michael Rothman PhD, Stacey Finn, MS, George Almasi, PhD, Ricardo Munoz, MD, *45th Critical Care Congress*, Feb 20-24, 2016.

27 IMPACT OF RI AUTOMATED ALERTS
*Prospective Evaluation of the Pediatric Rothman Index as a Measure of Pediatric Inpatient Acuity*, Christopher Horvat, MD, Melinda Hamilton, MD MSc, George Almasi, PhD, Fereshteh Palmer, RN BSN, Cynthia Valenta, MSN, Cristyne Kyper, CRNP, Michael Rothman PhD, Robert Clark, MD, *45th Critical Care Congress*, Feb 20-24, 2016.

28 MACHINE AND DEEP LEARNING

29 A CHIEF QUALITY OFFICER DESCRIPTION OF THE PEDIATRIC EXTENSION OF THE ROTHMAN INDEX

30 A NURSE SWAT TEAM REDUCES MORTALITY

31 PREDICTING POOR OUTCOMES AMONG PATIENTS WITH FEBRILE NEUTROPENIA

32 EXCESS RISK METHODOLOGY
*Excess Risk and the Rothman Index - Building and Validating a General Measure of Patient Acuity*, 2nd Annual Workshop on Data Mining in Medical Informatics at the Annual Meeting of the American Medical Informatics Association, Nov 14, 2015.

33 REDUCTION IN RAPID RESPONSE CALLS AND CODE BLUES

34 USE OF RI IN ICU CAPACITY MANAGEMENT

35 THE RELATIONSHIP BETWEEN THE BRADEN RISK ASSESSMENT SCALE AND THE ROTHMAN INDEX
*The Relationship between the BradenRisk Assessment Scale and the Rothman Index in Hospitalized Adults*, Marilyn Murphy Shepherd, MSN, MBA, CDE, CNE, CWOCN, *47th Annual WOCN Annual Conference*, June 6-10, 2015.

36 RISK OF HIGH NORMAL POTASSIUM
*High Normal Potassium is Dangerous to All Patients, not just AMI*, A Solinger, SI Rothman Pathology Informatics Summit 2015, 8, 2014 - 2nd World Congress on Pathology Informatics, May 5, 2015.

37 COMPUTING REFERENCE RANGES AS A FUNCTION OF PHYSIOLOGICAL RISK
38 DETECTION OF EMERGENT CONDITION FOR PEDIATRICS
Using EMR Data to Detect Emergent Conditions at a Pediatric Hospital, Michael Rothman, PhD, Melinda Hamilton, MD, Christopher Horvat, MD, Fereshteh Palmer, RN, Robert Clark, MD, IHI Scientific Symposium, 26th Annual IHI National Forum on Quality Improvement in Health Care, Dec. 8, 2014.

39 HEMATOLOGICAL ONCOLOGY PATIENTS: PREDICTING READMISSION RATES
Using the Rothman Index to Predict Discharge and Readmission Rates in an Inpatient Hematology Unit Roger Y. Kim, BS, Xiaopan Yao, PhD, Peter Longley, RN, DNP, Joan Rimar, DNSc, RN, Chryssanthi Kournioti, MD and Alfred Ian Lee, MD, PhD, 56th American Society of Hematology Annual Meeting, December 6-9, 2014.

40 THE IMPACT OF ROOMMATE ASSIGNMENTS ON OUTCOMES USING THE ROTHMAN INDEX

41 ESTIMATING THE VALUE-ADD FOR INDIVIDUAL NURSES USING THE ROTHMAN INDEX

42 IDENTIFYING PATIENTS FOR A PALLIATIVE CARE CONSULT
Rothman Index Palliative Care Consultation Trigger Rebecca Gagne Henderson, APRN, ACHPN, PhD(c); Joan Rimar, RN, DNSc; Stephen Allegretto, BS, MPH; Richard Hintz, poster, 2014 Joseph A. Zaccagnino Patient Safety and Clinical Quality Conference, May 15, 2014.

43 HEART FAILURE PATIENTS: 30-DAY READMISSIONS
Association of New Clinical Condition Tool to Hospital Length of Stay, Direct Variable Cost, & 30-Day Readmission, Banoff, KM 1,3, Rimar J2, Milner, K3, Price, A3, Canavan, M4, 1KMB Consulting, LLC, 2Yale New Haven Health System, New Haven, CT; 3Sacred Heart University, Fairfield, CT, 4Yale University, New Haven, CT, Eastern Nurse Research Society, 26th Annual Scientific Sessions, April 9-11, 2014.

44 APPLICATION OF RI TO PREVENT ICU READMISSIONS
Using the Rothman Index to Prevent Unplanned SICU Readmissions Greta L. Piper, MD*, Lewis J. Kaplan, MD, FACS, FCCM, FCCP*, Adrian A Maung, MD*, Felix Y. Lui, MD, FACS*, Kimberly Barre, RN*, Kimberly A. Davis, MD, MBA, FACS, FCCM, Yale University School of Medicine, 27th EAST (Eastern Association for the Surgery of Trauma) Annual Scientific Assembly, January 17, 2014.

45 APPLICATION OF RI TO DETECT IN-HOSPITAL PATIENT INTERACTION

46 APPLICATION OF RI TO DETECT PHYSIOLOGICAL DETERIORATION
Improving Patient Care Vigilance: Utilizing the Electronic Health Record (EHR) to Visualize Real-time Patient Acuity Michael J. Rothman, PhD, Alan B. Solinger, PhD, Steven I. Rothman, MSEM, G. Duncan Finlay, MD, Scientific Symposium of the 25th Annual National Forum on Healthcare Improvement, Dec. 9, 2013.

47 APPLICATION OF RI TO IMPROVE CONTINUITY OF CARE

48 DEFINING DECISION SUPPORT RULES AND VISUALIZATION BASED ON RI
49 RETROSPECTIVE STUDY OF THE ROTHMAN INDEX AS A PREDICTOR OF 7-DAY READMISSION FOR ONCOLOGY PATIENTS WITH SOLID TUMORS
Rothman Index as a Predictor for Type of Discharge and Readmission Rates in a Cancer Hospital – the Yale Experience. Daniel Morgenstern, Bing Xia, Chryssanthi Kournioti, Erin Wysong Hofstatter, Maureen Raucci, Alienne Morrione, Elizabeth Blasiak, Elizabeth Rosenberg, Joan Rimar, Michael J. Rothman, Rogerio Lilienbaum; Yale University School of Medicine, New Haven, CT; Yale Cancer Center, New Haven, CT; Smilow Cancer Center, New Haven, CT; Yale New Haven Hospital, New Haven, CT; PeraHealth, Charlotte, NC, poster at – Annual Meeting of the American Society for Clinical Oncology, June, 2013.

50 SEPSIS, SEVERE SEPSIS, SEPTIC SHOCK – VISUALIZING DETERIORATION
Seeing Sepsis: A Picture is worth…. Joan Rimar, RN, DNSc, Peggy Simonette, RN, MSN, Brian Keane, BS, MS, Wendy O’Brien, BS, Charles Torre, Jr., Stephen Allegretto, DNSc, RN, Janis Bozzo, MSN, RN, Nancy F. Considine, BS, poster, 2013 Joseph A. Zaccagnino Patient Safety and Clinical Quality Conference, May 2, 2013.

51 EARLY IDENTIFICATION OF DETERIORATION – SHANNON HOSPITAL
Rothman Index: Leveraging the EHR to Identify Patient Decline Earlier, Wilma Powell Stuart, Janette Dailey, (Shannon Hospital) Presentation at HIMSS, March 7, 2013.

52 IDENTIFYING AT-RISK PATIENTS
Patient Condition Index Tool Stratifies At Risk Patients; Improving Critical Thinking in a Complex Environment, Lori Hubbard, BSN, RN; Diane Vorio, MS, MSN, RN, NEA-BC; Joan Rimar, DNSc, RN, Janis Bozzo, MSN, RN, Nancy F. Considine, BS, Yale-New Haven Hospital, accepted for presentation at the ANA Nursing Quality Conference, poster, Feb 6-8, 2013, Atlanta, GA.

53 CLINICAL RESULTS FROM YALE – NEW HAVEN HOSPITAL – COLORECTAL SURGERY
Automated Analysis of Electronic Medical Records Data Reflects the Pathophysiology of Surgical Complications, Joseph J. Tepas, MD, U of Florida College of Medicine, Allen L. Hsiao, MD, Yale University School of Medicine and Yale New Haven Hospital, Joan M. Rimar, DNSc, RN, Yale New Haven Hospital, 70th Annual Meeting of the Central Surgical Association on March 16, 2013. Oral Presentation

54 MORTALITY AND NURSING ASSESSMENTS

55 PATIENT SURVEILLANCE RESULTS FROM ORLANDO REGIONAL

56 VISUALIZATION OF PATIENT CONDITION
Visualizing Patient Condition – Biomedical Informatics Dept., Stanford University, May 7, 2012, Michael Rothman, invited lecture. Oral Presentation

57 VISUALIZATION TO FACILITATE COMMUNICATION

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