

**THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
SCHOOL OF NURSING**

CURRICULUM VITAE

NAME: Debbie A. Travers

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LICENSURES and CERTIFICATIONS:

Registered Nurse, State of North Carolina, 1985-present
 Certified Informatics Nurse, American Nurses Credentialing Center, 1999-2004
 Certified Emergency Nurse, Emergency Nurses Association, 1983- present
 Advanced Cardiac Life Support Instructor, American Heart Association, 1983-present

EDUCATION:

Institution and Location	Degree	Dates	Major
School of Information and Library Sciences, UNC-Chapel Hill	PhD	2003	Information and Library Science
School of Medicine, UNC-Chapel Hill	Minor	2003	Medical Informatics
School of Public Health, UNC-Chapel Hill	Certificate	2003	Health Outcomes
National Library of Medicine: Duke University-UNC-Chapel Hill Research Training Program	Pre-doctoral Fellowship	2000-2003	Biomedical Informatics
National Library of Medicine, National Institute of Health	Summer Program	June & July 2001	Medical Informatics Research
School of Nursing, UNC-Chapel Hill	MSN	1994	Nursing Management
Hennepin County Medical Center, Minneapolis, MN & University of Kentucky Hospitals, Lexington	Residency	Aug-Sept 1993	Management Residency in Emergency Department Informatics
University of Kansas	BSN	1981	Nursing

ACADEMIC EMPLOYMENT:

Institution or Firm	Rank or Title	Dates
School of Nursing, UNC-Chapel Hill	Assistant Professor	Jan 2007- present
School of Nursing, UNC-Chapel Hill	Visiting Assistant Professor	July- Dec 2006
Department of Emergency Medicine, UNC-Chapel Hill	Research Assistant Professor	2007-present (joint) 2004 – 2006, 1999 – 2000
Health Policy & Management,	Adjunct Assistant Professor	2004-present

School of Public Health, UNC-Chapel Hill		
Department of Emergency Medicine, UNC-Chapel Hill	Research Instructor	1997-1998

OTHER EMPLOYMENT:

Institution or Firm	Rank or Title	Dates
UNC-Chapel Hill Memorial Hospital, Emergency Dept	Project Manager, Clinical Informatics	1995–1996
UNC-Chapel Hill Memorial Hospital, Emergency Dept	Outreach Education Clinician	1993–1995
UNC-Chapel Hill Memorial Hospital, Nursing Informatics	Clinical Nurse Education Specialist, Nursing Informatics	1991-1993
UNC-Chapel Hill Memorial Hospital, Carolina Air Care	Flight Nurse & Interim Chief Flight Nurse	1986–1991
UNC-Chapel Hill Memorial Hospital, Emergency Dept	Staff/Charge/Triage Nurse	1985-1986, 1991-1992, & 1994-2004
University of Kansas Medical Ctr., Kansas City	Staff/Charge/Preceptor Nurse	1981-1984

HONORS, AWARDS AND HONOR SOCIETY MEMBERSHIPS:

Date	Award or Honor
2005	Academy of Emergency Nursing Fellow
2003	Emergency Nurses Association Nursing Practice Award
2002	UNC-Chapel Hill Emergency Medicine Research Forum: Best research paper
2000	American Medical Informatics Association: Finalist for 2 awards for paper: Comparing the User Acceptance of a Computer System in Two Pediatric Offices: A Qualitative Study
1999	Doctoral Student Scholarship, Emergency Nursing Association Foundation
1998	Research Award, Emergency Nurses Association
1993	Scholarship for Graduate Education, Emergency Nursing Association Foundation
1989	Plus Person, University of North Carolina Hospitals

PUBLICATIONS:

Books/Book Chapters

Gilboy, N., Tanabe, P., **Travers, D. A.**, Rosenau, A. M., & Eitel, D. R. (Eds). (2011). *Emergency severity index, version 4: Implementation handbook 2012 Edition*. AHRQ Publication No. 12-0014. Rockville, MD, Agency for Healthcare Research and Quality, November 2011.

Waller, A. E., Scholer, M.J., Ising, A. I., & **Travers, D. A.** (2010). Using emergency department data for biosurveillance: The North Carolina experience. In Castillo-Chavez C. et al. (Eds). *Infectious Disease Informatics and Biosurveillance: Research, Systems, and Case Studies*. New York: Springer Publishing Company; 46-66.

Gilboy, N., & **Travers, D.** (2007). Triage. (In Hoyt, K.S., Selfridge-Thomas, J. (Eds). *Emergency nursing core curriculum (6th Ed.)*.(2, pp. 28-50.) St. Louis: Saunders.

Gilboy, N., Tanabe, P., **Travers, D. A.**, Rosenau, A. M., & Eitel, D. R. (Eds). (2005). *Emergency severity index, version 4: Implementation handbook* (pp. 1-72). Rockville, MD, Agency for Healthcare Research and Quality.

Travers, D., Kjervik, D., & Katz, L. (2001). Insufficient access to elderly patients' advance directives in the emergency department. In S.G. Funk, E. M. Tornquist, J. Leeman, M. S. Miles, & J. S. Harrell (Eds). *Key Aspects of Preventing and Managing Chronic Illness* (pp. 207-217). New York: Springer.

Travers, D. (1990). Association of air medical programs. In M. MacDonald & M. Seshia (Eds.), *Quality Assurance in Air Medical Transport* (pp. 9-14). Orem, Utah. WordPerfect Publishing Company:

Peer Reviewed Articles

In Preparation

Travers D, Rosenau A, Gilboy N. Development and testing of the pandemic influenza triage algorithm. *American Journal of Disaster Medicine*.

Haas S, **Travers D**, Waller A, Schwartz T, Mahalingam D, Mostafa J. Emergency Medical Text Classifier: A new system for processing and classifying triage notes. *Applied Clinical Informatics*.

Submitted/Under Review

Wallace S, Luzum M, Serra A, Arasartnam M, **Travers D**, Martin I, Wei T, Brice J. Medication reconciliation using pharmacy technicians in the emergency department does not reduce unjustified medication errors among admitted patients. *Academic Emergency Medicine*.

Accepted for Publication

Travers D, Haas S, Waller A, Schwartz T, Mostafa J, Best N, Crouch J. Implementation of Emergency Medical Text Classifier for syndromic surveillance. *Proceedings of the American Medical Informatics Association*.

Griffin, E, Woodard B, **Travers D**, Lippmann S. A matched cohort study of pediatric head injuries: collecting data to inform an evidence-based triage assessment. *Journal of Emergency Nursing*.

Published

Lippmann S, Yeatts K, Waller A, Hassmiller-Lich K, **Travers D**, Weinberger M, Donohue J. (2013). Hospitalizations and return visits following chronic obstructive pulmonary disease emergency department visits. *American Journal of Emergency Medicine*. Doi: 10.1016/j.ajem.2013.06.010. [Epub ahead of print].

Yeatts KB, Lippmann SJ, Waller AE, Lich KH, **Travers D**, Weinberger M, Donohue JF. (2013). Population-based Burden of COPD-related Visits in the Emergency Department (ED): Return ED Visits, Hospital Admissions, and Comorbidity Risks. *Chest*. 2013 Apr 11. doi: 10.1378/chest.12-1899. [Epub ahead of print], PMID: 23579283.

Hassmiller Lich, K, **Travers D**, Psek W, Weinberger M, Yeatts K, Liao W, Lippmann SJ, Njord L, Waller A. (2013). Emergency department visits attributable to asthma in North Carolina during 2008. *North Carolina Medical Journal*; 73(5).

Mayer, D.K , **Travers D.**, Layman, A., Leak A., Waller A. (2011). Why Do Cancer Patients Visit Emergency Departments? Results of a 2008 Population Study in North Carolina. *Journal of Clinical Oncology*; 29(19):2683-8.

Travers D. Emergent triage miss. AHRQ WebM&M [serial online]. August 2010. Available at: <http://www.webmm.ahrq.gov/case.aspx?caseID=223>.

Platts-Mills, T.F., **Travers, D.**, Biese, K., McCall, B., Kizer, S., LaMantia, M., Busby-Whitehead, J., Cairns, C.B. (2010). Accuracy of the Emergency Severity Index triage instrument for identifying elderly emergency department patients receiving an immediate life-saving intervention. *Academic Emergency Medicine*, 17: 238-243.

Dupont, N., Koeninger, D., Guyer, J. D., & **Travers, D.** (2009). Selecting an electronic medical record system for small physician practices. *North Carolina Medical Journal*, 70(5): 399-403.

Travers, D., Waller A., Katznelson J., & Agans R. (2009). Reliability and validity of the emergency severity index for pediatric triage. *Academic Emergency Medicine*, 16(9), 843-849.

Travers, D. & Mandelkehr, L. (2008). The emerging field of informatics. *North Carolina Medical Journal*, 69(1), 126-131.

Haas, S.W., **Travers, D.**, Tintinalli, J. E., Pollock, D, Waller, A., Barthell, E., et al. (2008). Towards vocabulary control for chief complaint. *Academic Emergency Medicine*, 15(5), 476-82.

Hohenhaus, S. M., **Travers, D.**, & Mecham, N. (2008). Pediatric triage: A review of emergency education literature. *Journal of the Emergency Nursing Association*, 34(4), 308-313.

- Dara, J., Dowling, J. N., **Travers, D.**, Cooper, G. F., & Chapman, W. W. (2007). Evaluation of preprocessing techniques for chief complaint classification. *Journal of Biomedical Informatics* 2008, 41(4), 613-23.
- Scholer, M., Ghneim, G., Wu, S., Westlake, M., **Travers, D.**, Waller, A., et al. (2007). Defining and applying a method for improving sensitivity and specificity of an emergency department early event detection system. *Proceedings of the 2007AMIA Symposium*, 651-655.
- Travers, D.**, Wu, S., Scholer, M., Westlake, M., Waller, A., & McCalla, A. (2007). Evaluation of a chief complaint processor for biosurveillance. *Proceedings of the 2007AMIA Symposium*, 736-740.
- Tanabe, P., Gilboy, N., & **Travers, D.** (2007). Emergency severity index version 4: clarifying common questions. *Journal of Emergency Nursing*, 33(2), 182-185.
- Travers, D.**, & Haas, S. (2006). The unified medical language system© coverage of emergency department chief complaints. *Academic Emergency Medicine*, 13, 1319-1323.
- Travers, D. A.**, Barnett, C., Ising, A., & Waller A. (2006). Timeliness of emergency department diagnoses for syndromic surveillance. *Proceedings of the AMIA Symposium*, 769-773.
- Gilboy, N., Tanabe, P., & **Travers D.** (2005). The emergency severity index version 4: Changes to ESI level 1 and pediatric fever criteria. *Journal of Emergency Nursing*, 31(4), 357-362.
- Tanabe, P., **Travers, D.**, Gilboy, N., Rosenau, A., Sierzega, G., & Rupp, V., et al. (2005). Refining emergency severity index triage criteria. *Academic Emergency Medicine*, 12(6), 497-501.
- Fernandes, C. M., Tanabe, P., Bonalumi, N., Gilboy, N., Johnson L. A., **Travers, D.**, et al. (2005). Five-level triage: A report from the ACEP/ENA five-level triage task force. *Journal of Emergency Nursing*, 31(1), 39-50.
- Travers, D. A.**, & Haas, S. W. (2004). Evaluation of emergency medical text processor, a system for cleaning chief complaint data. *Academic Emergency Medicine*, 11(11), 1170-1176.
- Haas, S. W., & **Travers, D. A.** (2004). Defining clinical similarity among ICD-9-CM diagnosis codes: diagnosis cluster schemes. *Advances in Classification Research*, 12, 67-86.
- Sickbert-Bennett, E., Scholer, M., Butler, J., **Travers, D.**, MacFarquahr, J., & Waller, A., et al. (2004). Evaluating a syndromic surveillance system for the detection of acute infectious gastroenteritis outbreaks - North Carolina. *MMWR Supplement*, 54, 201.

- Travers, D.A., & Haas, S. W.** (2003). Using nurses' natural language entries to build a concept-oriented terminology for patient's chief complaints in the emergency department. *Journal of Biomedical Informatics*, 32, 260-270.
- Travers, D. A., Haas, S. W., Waller, A. E., & Tintinalli, J. E.** (2003). Diagnosis clusters for emergency medicine. *Academic Emergency Medicine*, 10(12), 1337-1344.
- Travers, D., Waller, A, Haas, S.W., Lober, W.B., Beard, C.** (2003). Emergency department data for bioterrorism surveillance: Electronic data availability, timeliness, sources and standards. *Proceedings of the AMIA Symposium*, 664, 8.
- Eitel, D. R., **Travers, D. A.**, Rosenau, A. M., Gilboy, N., & Wuerz, R. C. (2003). The emergency severity index triage algorithm version 2 is reliable and valid. *Academic Emergency Medicine*, 10(10), 1070-1080.
- Bordley, W. C., **Travers, D.**, Scanlon, P., Frush, K., & Hohenhaus S. (2003). Office preparedness for pediatric emergencies: A randomized, controlled trial of an office-based training program. *Pediatrics*, 112(2), 291-295.
- Travers, D. A.**, Waller, A. E., Bowling, J. M., Flowers, D., & Tintinalli J. (2002). Five-level triage system more effective than three-level in tertiary emergency department. *Journal of Emergency Nursing*, 28(5), 395-400.
- Wuerz, R. C., **Travers, D.**, Gilboy, N., Eitel, D. R., Rosenau, A., & Yazhari R. (2001). Implementation and refinement of the emergency severity index. *Academic Emergency Medicine*, 8(2), 170-176.
- Wuerz, R. C., Milne, L. W., Eitel, D. R., **Travers, D.**, & Gilboy, N. (2000). Reliability and validity of a new five-level triage instrument. *Academic Emergency Medicine*, 7(3), 236-242.
- Travers, D.**, & Downs, S. M. (2000). Comparing the user acceptance of a computer system in two pediatric offices: A qualitative study. *Proceedings of the AMIA Symposium*, 853-857.
- Gilboy, N., **Travers, D. A.**, & Wuerz, R. C. (1999). Re-evaluating triage in the new millennium: A comprehensive look at the need for standardization and quality. *Journal of Emergency Nursing*, 25(6), 468-473.
- Travers, D.** (1999). Triage: How long does it take? How long should it take? *Journal of Emergency Nursing*, 25(3), 238-240.
- Travers, D.**, & Parham, T. P. (1997). Improving information access with an emergency department system. *Proceedings of the AMIA Symposium*, 121, 5.
- Travers, D.** (1997). The need for quick computer response with minimal input: Development of an ED computer system. *Journal of Emergency Nursing*, 23, 259-264.

Travers, D. & Mears, G. (1996). Physicians' experience with pre-hospital do-not-resuscitate orders in North Carolina. *Pre-hospital and Disaster Medicine*, 11(2), 91-99.

Travers, D. (1995). Order entry and results reporting. *Topics in Emergency Medicine*. 17(4), 64-73.

Travers, D. & Benson, N. (1990). The status of air medical quality assurance. *The Journal of Air Medical Transport*, 9(6), 6-10.

Travers, D., Means, J., & Riordan, J. (1989). Determining Appropriate Use of an Air Medical Program. *The Journal of Air Medical Transport*, 8(9), 7-9.

Published Proceedings

Mahalingam, D, Mostafa, J., **Travers, D.**, Haas, S.W. & Waller, A. (2012). Automated syndrome classification using early phase emergency department data. Proceedings of the American Computing Machinery Special Interest Group on Healthcare Information Technology, January 2012, Miami, FL.

Haas, S., **Travers, D.**, Waller, A., & Kramer-Duffield, J. (2007). What is an event? Domain constraints for temporal analysis of chief complaints and triage notes. *Proceedings of the 2007 ASIST Annual Meeting*. Retrieved from: <http://www.asis.org/publications.html>

Abstracts

Travers, D., Hassmiller Lich, K., Lippmann, S., Waller, A., Weinberger, M., Yeatts, K. (2011, December) Defining emergency department asthma visits for public health surveillance. *Emerging Health Threats Journal*, 4:11042.

Mahalingam, D., Medlin, R., **Travers D** & Haas, S.W. Temporal information extractor: Identifying symptom onset date from emergency department notes. *Proceedings of the 2011 AMIA Symposium*, October, 2011, Washington, DC.

Leak, A. Mayer, D., **Travers D.**, Layman, A., & Waller, A. (2011). Why do cancer patients die in the emergency department? An analysis of NC cancer patients who died in EDs. *Oncology Nursing Forum*, 38(1), A69.

Haas SW, **Travers D**, Mahalingam D, Crouch J, Mostafa J, Waller A. (2010). Burning up: Finding fever expressions in triage notes. Poster presentation at the *ASIST 2010 conference*, October, 2010, Pittsburgh, PA.

Travers D, Haas SW, Waller A, Crouch J, Mostafa J, Schwartz T. (2010). Identifying evidence of fever in emergency department text. *Proceedings of the 2010 AMIA Symposium*, November, 2010, Washington, DC.

- Platts-Mills, T., **Travers, D.**, Biese, K., McCall, B., Kizer, J.S., Busby-Whitehead, J., et al. (2009). Accuracy of the Emergency Severity Index for Identifying Elderly Patients' Need for Immediate Life-Saving Intervention. *Academic Emergency Medicine*; 16 (S1), 211.
- Travers, D.**, Scholer, M., Crouch, J., & Wetterhall, S. (2008). Using UMLS Semantic Network to identify search terms for biosurveillance. *Advances in Disease Surveillance*, 5, 69.
- Phillips, T. G., Haas, S.W., Tintinalli, J. E., **Travers, D.**, & Waller, A. (2008). In search of a controlled vocabulary for emergency department chief complaint: A comparison of four published chief complaint lists. *Advances in Disease Surveillance*, 5, 52.
- Ho, A., Tintinalli, J., **Travers, D.** (2007). Emergency severity index for psychiatric triage. *Academic Emergency Medicine*, 14(5), S135.
- Ising, A., **Travers, D.**, Crouch, J., & Waller, A. (2007). Improving negation processing in triage notes. *Advances in Disease Surveillance*, 4, 50.
- Barnett, C., Ising, A., **Travers, D.**, & Waller, A. (2007). Emergency department data quality best practices. *Advances in Disease Surveillance*, 2, 193.
- Travers, D.**, Kipp, A., MacFarquhar, J., & Waller, A. (2006). Evaluation of Emergency Medical Text Processor for Pre-Processing Chief Complaint Data for Syndromic Surveillance. *Advances in Disease Surveillance*, 1, 71.
- Ising, A. I., **Travers, D. A.**, MacFarquhar, J., Kipp, A., & Waller, A.E. (2006). Triage note in emergency department-based syndromic surveillance. *Advances in Disease Surveillance*, 1, 34.
- Rosenau, A. M., Waller, A., Trocinski, D., **Travers, D.**, Mecham, N., Katznelson, J., et.al. (2006). Is the Emergency Severity Index Reliable for Pediatric Triage? *Annals of Emergency Medicine*, 48(4S), 62-63.
- Travers, D.**, Agans, R., Eitel, D., Mecham, N., Rosenau, A., Tanabe, P., et al. (2006). Reliability evaluation of the Emergency Severity Index Version 4. *Academic Emergency Medicine*, 13(5S), 126.
- Katznelson, J., Hohenhaus, S., **Travers, D.**, Agans, R., Trocinski, D., Waller, A. (2006). Creation of a validated set of pediatric case scenarios for the Emergency Severity Index Triage System. *Academic Emergency Medicine*, 13(5S), 169.
- Travers, D.**, Haas, S., Waller, A., Reeder, T., & Spicer, S. (2005, September). *Evaluation of controlled terminologies for emergency department chief complaint documentation*. Poster session presented at the Emergency Nurses Association Annual Scientific Assembly, Nashville, TN.

MacFarquhar, J., Sickbert-Bennett, E., Waller, A., **Travers, D.**, Scholer, M., & Davies, M. (2005, September). *Evolution of a syndromic surveillance case definition*. National Syndromic Surveillance Conference. Seattle, WA.

Scholer, M., MacFarquhar, J., Sickbert-Bennett, E., Kipp, A., **Travers, D.**, & Waller, A. (2005, September). *Reverse engineering of a syndrome definition for influenza*. National Syndromic Surveillance Conference. Seattle, WA.

Travers, D. (2005, September). *Using emergency department chief complaint data for syndromic surveillance*. National Syndromic Surveillance Pre-Conference Workshop, Seattle, WA.

Travers, D., & Bodenreider, O. (2002). Identifying medical concepts in free text chief complaint data. *Academic Emergency Medicine*, 9, 511.

Travers, D., Haas, S., & Downs, S. (2001, November). *Multiple uses of the oblique stroke (slash, '/') in emergency department text*. Poster session presented at the American Medical Informatics Association Symposium, Washington, DC.

Travers, D. (2001, February). *The need for standardization of triage data collection*. Emergency Nurses Association Leadership Conference, Reno, NV.

Travers, D. A., Katz, L. M., & Kjervik, D. K. (1999). Identification of elderly patients' advance directives and DNR status in the emergency Department. *Academic Emergency Medicine*, 6, 530.

Brice, J. H., **Travers, D. A.**, & Young, M. (1999). Health literacy among Spanish-speaking patients in the emergency department. *Academic Emergency Medicine*, 6, 400.

Travers, D., & Parham, T. (1998). Computers: Managing culture change. *Journal of Emergency Nursing*, 24(2), 120.

Travers, D., Harrison, R., & Adams, D. (1987). The effect of two nearby fatal aeromedical helicopter crashes on the mission requests of a hospital-based aeromedical program. *Aeromedical Journal*, 2(5), 41.

Dissertation

Travers, D. A. (2004). *Identification of concepts from emergency department text using natural language processing techniques and the Unified Medical Language System®*. (Doctoral dissertation, University of North Carolina-Chapel Hill, 2004). *Dissertation Abstracts International*, 64(11).

PRESENTATIONS

Invited

Travers, D. (2009, December). Triage update for school nurses. Wake AHEC, Raleigh, NC.

Travers, D. (2009, August). Using emergency department data and informatics applications to support public health surveillance. North Carolina Nurses Association- Council on Nursing Informatics. Chapel Hill, NC.

Travers, D. (2007, February). *ED triage: Getting it right the first time.* Coastal AHEC, Wilmington, NC.

Travers, D. (2006, December). *Emergency department triage: Assessment basics and use of five-level triage scales.* Southern Regional AHEC, Fayetteville, NC.

Travers, D. (2005, October). *Using emergency department data and informatics applications for early outbreak detection North Carolina.* Public Health Informatics Fellows Seminar, Centers for Disease Control and Prevention, Atlanta, GA.

Travers, D. (2000, October). *Enhancing patient safety and satisfaction through a new approach to triage.* The Saint Paul 2000 Fall Clinical Seminar: Patient Safety and Satisfaction in Emergency Services, Nashville, TN.

Refereed

Scholer, M.J., **Travers, D.**, Waller, A.E., McCalla, A.L., Wetterhall, S.F. (2009, December) *Optimizing syndromic classification in biosurveillance.* Oral presentation at the International Society for Disease Surveillance Annual Conference, Miami, Florida.

Travers, D., Scholer, M.J., Crouch, J., Wetterhall, S. (2009, May). *Evaluation of a new method for identifying biosurveillance search terms.* Oral presentation at the American Medical Informatics Spring Congress, Orlando, FL.

Travers, D. (2006, September). *Someone to watch over me: Decision making in pediatric triage.* Emergency Nurses Association Annual Symposium. Dallas, Tx.

RESEARCH ACTIVITIES:

Research Grants

Submitted

Travers, D. Principal Investigator. *Can Cause-specific School Absenteeism Data Support Influenza Surveillance in NC?* Centers for Disease Control and Prevention. Submitted 3/7/13. Total: \$1,500,000.

Funded

Travers, D., Vocabulary Consultant. *North Carolina Be Prepared.* US Department of Homeland Security, Principal Investigator: David Potenziani. Project Period: 12/01/09-11/30/11.

Travers, D., Principal Investigator. *Adapting natural language processing tools for biosurveillance*. National Library of Medicine. Project Period: 9/28/09-4/27/13. Total: \$447,569.

Travers, D., Principal Investigator. *Suite of triage tools for an influenza pandemic and discussion-based exercises*. Oak Ridge Institute for Science Education (subcontractor for Centers for Disease Control and Prevention). Project Period: 7/8/09-3/5/11. Total: \$99,940.

Travers, D., Principal Investigator. *Emergency department utilization by oncology patients*. North Carolina Translational and Clinical Sciences Institute (TraCS). Project Period: 06/1/09-10/31/10. Total: \$2,000.

Travers, D., Principal Investigator. *Analysis of Vital Sign Data for Prediction of Pediatric Patient Acuity in the Emergency Department*. RJ Reynolds Fund Award (Junior Faculty Development), University of North Carolina at Chapel Hill. Project Period: 1/1/09-12/31/09. Total: \$7,500.

Travers, D., Principal Investigator. *Analysis of vital sign data for prediction of pediatric patient acuity in the emergency department*. University Research Council (UNC-CH). Project Period: 5/1/07-4/30/09. Total: \$5,000.

Travers, D., Co-investigator. *The BioSense initiative to improve early event detection*. Centers for Disease Control and Prevention, Principal Investigator: S. Wetterhall. Project Period: 10/1/05-9/30/09. Total: \$355,845.

Travers, D., Co-investigator. *Evaluation of the Emergency Severity Index for Pediatric Triage*. Health Resources and Services Administration, Principal Investigator: A. Waller. Project Period: 3/1/05- 2/29/08. Total: \$600,000.

Travers, D., Co-investigator. *Chief complaint symposium*. National Library of Medicine, Principal Investigator: S. Haas. Project Period: 9/30/05- 9/29/07. Total: \$17,591.

Travers, D., Vocabulary Consultant. *The North Carolina Disease Event Tracking and Epidemiological Collection Tool (NC DETECT)*. North Carolina Division of Health and Human Services, Principal Investigator: A. Waller. Project Period: August 2002-August 2011. Total: \$2,600,000.

Travers, D., Principal Investigator. *Electronic public health reporting by emergency departments*. North Carolina Division of Health and Human Services, Division of Public Health. Project Period: 3/1/00-8/1/00. Total: \$450,000.

Travers, D., Principal Investigator. *A comparison of two emergency department triage systems*. UNC Medical Faculty Small Grant Program. Project Period: 1/1/00-8/1/00. Total: \$3,800.

Travers, D., Principal Investigator. *ED triage instrument to predict resource needs and outcomes.* Agency for Health Care Policy and Research. Project period: 1/1/99-8/1/00. Total: \$8,000.

Travers, D., Co-Investigator. *Evaluation of literacy among Spanish-speaking patients in the emergency department. Emergency Nurse Association/Emergency Medical Foundation Joint Nurse/Physician Team Grant.* Principal Investigator: J. Brice. Project period: 1/1/98-12/31/99. Total: \$10,000.

Travers, D., Principal Investigator. *A comparison of two emergency department triage systems. Emergency Nurses Association Foundation.* Project period: 1/1/97-12/31/98. Total: \$5,000.

Travers, D., Principal Investigator. *Access to elderly patients, advance directives in the emergency department. Center for Research on Chronic Illness.* Project period: 1/1/97-12/31/98. Total: \$9,725.

Travers, D., Principal Investigator. *A study of do-not-resuscitate orders in North Carolina.* Sigma Theta Tau, Alpha Alpha Chapter. Project period: 1/1/94-6/30/94. Total: \$1,000.

PROFESSIONAL ACTIVITIES

Memberships and Positions Held in Professional Organizations

Nursing Informatics Policy Committee, American Medical Informatics Association. Member, 2009-2010.

Nursing Informatics History Committee, American Medical Informatics Association. Member, 2008-2010.

American College of Emergency Physicians/Emergency Nurses Associate Joint Task. Force on 5-level triage. Member, 2003- 2007.

Centers for Disease Control and Prevention, Data Elements for Emergency Department Systems 2.0 Writing Committee. Member, (representing Emergency Nurses Association), 1999-2006.

LUNAR (Learning and using new approaches in research), Multicenter Research Study, Project Team Member, 1996-1999.

Society for Academic Emergency Medicine- Member, 1997-2006

American Medical Informatics Association, 1997-present
People & Organizational Issues, Nursing Informatics & Natural Language Processing Work Groups, Member.

National Flight Nurses Association, Member, 1986-1991.
Member, Research Committee, 1986-1987.

Association of Air Medical Services.
Founding Member, Quality Assurance Committee, 1986-1990.

American Association of Critical Care Nurses, Member, 1982-1990.

Emergency Nurses Association, Member, 1981-present.
Information Systems Committee, Member, 1997.
Research Committee, Member, 1995-1996.
Informatics Steering Committee, Member, 1994.

Sigma Theta Tau International Honor Society in Nursing, Member, 1981-present.
Alpha Alpha Chapter, Research Committee, Member, 2006-present

Training Grants

Participating Faculty, Research Training: Health Care Quality and Patient Outcomes.
NINR/NIH 2T32NR00856. Project period: 9/30/2004-6/30/2014. Principal
Investigator: B. Mark, Total (current year): \$255,133.

Participating Faculty, Informatics Training: Consortia for University-based Training of Health IT
Professionals in Health Care. Led the development of the post-MSN certificate in
Informatics at the School of Nursing. Project period: 04/01/2010-06/30/2013. Principal
Investigator: J. Mostafa.

Doctoral Student Supervision

Present

Committee Chair, Sherry Leviner, 2009-present. (T32 pre-doctoral trainee 2009-12) Dissertation
topic: Emergency Department crowding: Left without being seen in the emergency
department.

Editorial/Review Activities

International Society for Disease Surveillance- Annual Meeting, Paper Reviewer, 2011-13

Journal of Nursing Care Quality, Manuscript reviewer, 2012-13

Emergency Nurses Association- Annual Leadership Meeting, Research Reviewer, 2012-14

Health Services Research Journal, manuscript reviewer, 2012

BioSecure: Annual Biosurveillance and Biosecurity Conference, Editorial Board, 2008.

IEEE (Institute of Electrical and Electronics Engineers), Transactions in Information Technology in Biomedicine, reviewer, 2008.

International Society for Disease Surveillance, Editorial Board, 2006- 2009.

American Medical Informatics Association. Paper Reviewer, Annual meeting, 1998-2006, 2013.

Annals of Emergency Medicine. Manuscript Reviewer, 1998-present.

Emergency Nursing Association Foundation, Research Grant Reviewer, 1997-1999, 2006-2009, 2012-13 (including joint grants with Sigma Theta Tau).

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Consulting Activities

Legal Nurse Consultant: Emergency Department Triage, 2002-present

Triage Consultant: Small Business Innovation Research Grant (National Institutes of Health), 10/2009-9/2011, Charles Lee (principal investigator), Polyglot Systems