HEALTH SERVICES RESEARCH DEPARTMENT PUBLICATIONS:
CATALOG OF COMPLETED STUDIES, 1971 - 1985
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PART I

INTRODUCTION
INTRODUCTION

The Health Services Research Department at the Naval School of Health Sciences, Bethesda, Maryland, was established in 1971. Its overall mission is to conduct problem-focused research in health care delivery, organizational management and related areas. During the past fifteen years, research has been completed in the areas of hospital workload measurement, physician manning levels, contingency planning, beneficiary case mix classification (DRGs), provider work stress, and nursing workload management. Staff members are also tasked with anticipating future trends in health care and evaluating their potential impact on the efficiency and effectiveness of Navy medicine.

Organizationally, the Department is located within the Naval School of Health Sciences, an echelon 4 command responsible to the Naval Health Sciences Education and Training Command and thus accountable to the Deputy Commander, Personnel Management (MEDCOM Code 05). Funding for research is provided by the Naval Medical Research and Development Command through the Deputy Commander for Fleet Readiness and Support (MEDCOM Code 02). Current manpower authorization is four officers (one Medical Service Corps, one Nurse Corps, and two "2xxx) and three civilians (a statistician, a computer programmer, and a secretary). One additional Nurse Corps officer has been assigned to the Department in an operational billet entitled Workload Management System (WMS) Project Manager.

In addition to conducting formal studies, members of the Research staff serve as consultants and resource personnel to various military and civilian groups, such as the DOD mandated Tri-Service Performance Measurement Work
Group. The coordination of mutually interesting studies and distribution of workload has maximized the personnel and fiscal resources of the Department. As a result, the Naval Medical Command and field activities have been provided with the scientific analyses necessary to defend current programs or make desired changes in the Navy health care system.
PART II

PUBLISHED STUDIES AND CRITIQUES
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<td>Mar 72</td>
<td>BENTLEY, J. D. and WHITE, R. L. An Analysis of Certain Arguments Concerning Allocation of Physicians in the U.S. Navy. (NSHS #C-1)</td>
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<td>May 72</td>
<td>BENTLEY, J. D. and WHITE, R. L. Physician requirements for the Navy Medical Department. (NSHS #S-4)</td>
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<td>Jun 72</td>
<td>BENTLEY, J. D. and WHITE, R. L. An Evaluation of the Physician Staffing Requirements Recommended by the Center for Naval Analysis. (NSHS #C-2)</td>
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<tr>
<td>Aug 72</td>
<td>POINTER, D. D.; WHITE, R. L.; and BENTLEY, J. D. Towards the Development of a Valid Medical Activity Measure: Theoretical Foundations. (NSHS #S-6)</td>
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<tr>
<td>Oct 72</td>
<td>POINTER, D. D.; WHITE, R. L.; and BENTLEY, J. D. Workload Measurement in Naval Hospitals: An Initial Discussion. (NSHS #S-7)</td>
</tr>
<tr>
<td>Dec 72</td>
<td>WHITE, R. L. Medical Workload Prediction: Population Data for Health Care Planning and Research--Requirements and Recommendations. (NSHS #S-9)</td>
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<td>Dec 73</td>
<td>POINTER, D. D.; Bentley, J. D.; and WHITE, R. L. Ambulatory Care Cost Functions in Naval Outpatient Departments: An Empirical Model. (NSHS #S-10)</td>
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<td>BENTLEY, J. D. A Point Paper Analysis of the USAF Adjusted Admissions Equivalent. (NSHS #C-3)</td>
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<td>Feb 74</td>
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<td>MONTGOMERY, J. E. An Evaluation of Alternatives for the Delivery of Health Care in the United States Military. (NSHS #S-13)</td>
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<td>BENTLEY, J. D. An Evaluation of the Assumptions and Methodology of the Boeing Study. (NSHS #C-5)</td>
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<td>Mar 74</td>
<td>MONTGOMERY, J. E. Economic Incentives for Health Care Providers and Consumers Under Various Reimbursement Systems with Possible Applications to the Military Health Care Delivery System. (NSHS #S-12)</td>
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<tr>
<td>Nov 74</td>
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<td>BENTLEY, J. D. A Point Paper Summary and Evaluation of Health Personnel All-Volunteer Task Force Report #74-8 &quot;Fiscal Year 1975 Study Plan.&quot; (NSHS #C-8)</td>
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<td>BENTLEY, J. D. A Point Paper Summary and Evaluation of Health Personnel Task Force Report #74-9 &quot;Method of Determining Desired Number of Active Duty Physicians.&quot; (NSHS #C-9)</td>
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<td>BENTLEY, J. D. A Point Paper Summary and Evaluation of Health Personnel Task Force Report #74-12 'Report on Civil Service Physicians in the Department of Defense' (NSHS #C-10)</td>
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<td>Jan 75</td>
<td>BENTLEY, J. D. A Point Paper Summary and Evaluation of Health Personnel Task Force Report #74-13 &quot;Strategic Aeromedical Evacuation--A Simulation Model.&quot; (NSHS #C-11)</td>
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<td>Jan 75</td>
<td>BENTLEY, J. D. A Point Paper Summary and Evaluation of the U.S. Army Medical Care Composite Unit Study (MECCUS). (NSHS #C-12)</td>
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<td>Jan 75</td>
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<td>Oct 75</td>
<td>REDD, R. D. Simple Extrapolative Methods to Forecast Naval Medical Workload. (NSHS #S-28)</td>
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<td>BENTLEY, J. D.; AMBROSE, D. M.; and ELKINS, B. R. The Organization of the Direct Care Navy Medical System. (NSHS #S-29)</td>
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<td>AMBROSE, D. M.; BENTLEY, J. D.; and ELKINS, B. E. A Continuum of Patient Care in the Navy Medical System. (NSHS #S-30)</td>
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<td>Jun 76</td>
<td>REDD, R. D. A Critique of &quot;Synthesized Cases&quot;: A Definition of Hospital Product With Application to a Proposed Hospital Productivity Measurement System. (NSHS #C-15)</td>
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<td>REDD, R. D. and AMBROSE, D. M. Length of Patient Stay in Naval Hospitals: A Model for Case-Mix-Adjusted Comparison with Civilian Hospitals. (NSHS #S-31)</td>
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<td>PHILLIPS, C. A., Jr., and PAYTON, R. A. HEW Hospital Planning Guidelines Related to the Navy Medical Department. (NSHS #S-43)</td>
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<td>BRUDER, P. T. Concept Paper - Proposed Regional/Hospital Organization, Naval Regional Medical Center, Charleston, South Carolina. (NSHS #C-1-79)</td>
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Sep 79 MONTGOMERY, J. E. Weighting of Patient Classification Indicators: Part I, Based on Sorting and Ranking Procedures; Part II, Average-Rank/Ordinal Weight Method. (NSHS #S-6-79)

Sep 79 MONTGOMERY, J. E. and KELLY, M. Assignment Element Difficulty as a Basis for Nursing Personnel Staffing at Naval Hospitals: Phase I Project Report. (NSHS #S-3-79) NTIS AD-A078584


Mar 30 MONTGOMERY, J. E. The Proposed "Health Care Unit": An Interim Critique. (NSHS #C-1-80)

Apr 30 MONTGOMERY, J. E. and KELLY, M. Validity and Reliability Testing of Three Naval Hospital Patient Classification Systems. (NSHS #S-1-80)

Sep 30 BRUDER, P. T. and BUTLER, M. C. The Emerging Role of Health Services Research in the Navy Medical Department. (NSHS #C-2-80)

Oct 30 KELLY, M. and MONTGOMERY, J. E. Development of Staffing Formulas for Nursing Personnel Based on patient Classifications with Quality of Care Considerations. (NSHS #S-2-80)

Feb 31 BRUDER, P. T. and BUTLER, M. C. The Medical Service Corps Officer Surveys: Who Responded? (NSHS #S-1-81) NTIS AD-A101789

Mar 31 MONTGOMERY, J. E. Review of Combat Medical Planning Modeling Efforts at Fort Sam Houston, Texas; Evaluative Trip Report. (NSHS #C-1-81)

Mar 31 BRUDER, P. T. and BUTLER, M. C. Junior MSC Officer Attitudes Toward Operational Assignments. (NSHS #S-2-81) NTIS AD-A102592

Mar 31 KELLY, M. Survey of Patient Classification System Status Report. (NSHS #S-3-81)

Apr 31 BUTLER, M. C. and BRUDER, P. T. Life-Stage Career Concerns Among Medical Service Corps Officers: Dimensions and Occupational Differences. (NSHS #S-4-81) NTIS AD-A101738
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<td>Dec 31</td>
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<td>KAY, T. L.; BRUDER, P. T.; and BUTLER, M. C. Navy Uniformed Social Workers: Introduction to a Longitudinal Career Study. (NSHS #S-1-82)</td>
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<td>KAY, T. L. and MONTGOMERY, J. E. Using Diagnostic Related Groups (DRGs) to Monitor Hospital Performance and Allocate Resources to Navy Hospitals - Preliminary Results. (NSHS #S-2-82)</td>
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<td>Nov 33</td>
<td>KAY, T. L. and RIEDER, K. A. Accounting for Variation in Patient Length of Stay in Naval Hospitals Using Diagnosis Related Groups (DRGs) as a Case Grouping Method - Preliminary Results. (NSHS #S-1-83) NTIS AD-A148 471/6/WHP</td>
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<td>Jul 34</td>
<td>RIEDER, K. A. Nursing Productivity as Measured by the Navy Workload Management System. (NSHS #S-9-84)</td>
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Aug 84 | RIEDER, K. A. and JACKSON, S. S. Evaluative Study of the Navy Medical Department's Patient Classification System and Staffing Allocation - Preliminary Report. (NSHS #S-1-84) NTIS AD-A148 519/2/WHP
Sep 84 | LA ROCCO, J. M. Social Support: Mechanisms and an Integrative Taxonomy. (NSHS #S-2-84)
Sep 84 | LA ROCCO, J. M. and MEDER, D. Differences in Perceptions of Organizational Conditions, Job Attitudes, and Health Beliefs Among Military Physicians, Dentists, and Nurses. (NSHS #S-3-84)
Oct 84 | HALL, R. J. and KAY, T. L. Uniform Chart of Accounts: A Description with Comments on Potential Use with Case Mix Data. (NSHS #S-4-84) NTIS AD-A148 519/4/WHP
Feb 85 | KAY, T. L.; RIEDER, K. A.; and HALL, R. J. Attempt to Refine DRGs (Diagnosis Related Groups) for Navy Medical Department Use by Including Military Unique Variables and an Estimate of Disease Severity. (NSHS #S-2-85) NTIS AD-A157 676/8/4HP
Feb 85 | LA ROCCO, J. M. Understanding, Prediction, and Control as Moderators of the Relationship Between Work Conditions and Well-Being. (NSHS #S-1-85)
Mar 85 | STEELE, T.; HOLMES, S. A.; HIGGINS, J. L.; and RIEDER, K. A. Perceptions of the Educational Coordinator's Role in the Navy Medical Department. (NSHS #S-3-85)
Dec 85 | RIEDER, K. A. and JACKSON, S. S. An Evaluative Study of the Navy Medical Department's Patient Classification System and Staffing Allocation - Final Report. (NSHS #S-5-85)
PART III

METHODS TO OBTAIN STUDIES
METHODS TO OBTAIN STUDIES

The following list of studies and critiques may be obtained as follows:

1. Studies with an AD# listed are available from the Defense Technical Information Center (DTIC). Regular users of the services of DTIC (Per DoD Instruction 5200.21) may obtain copies directly from the following address:

   Defense Technical Information Center (DTIC)
   ATTN: DTIC-DDR
   Cameron Station
   Alexandria, VA 22304-6145

   Telephones: AUTOVON 284-7633, 34 or 35
               COMMERCIAL (202) 274-7633, 34 or 35

2. Studies listed with AD, HRP, or PB numbers are available from the National Technical Information Services (NTIS). Those who are not regular users of DTIC may obtain copies directly from the following address:

   U.S. Department of Commerce
   National Technical Information Services
   5285 Port Royal Road
   Springfield, VA 22161

   Telephone: Commercial (703) 487-4650
   For Rush Orders: (Virginia) (703) 487-4700
   (Outside VA) 800-336-4700

   When ordering, indicate if the report is desired in microfiche, paper copy, magnetic tape, or microfilm (cartridge, reel, etc.). Current prices of reports or other services may be obtained directly from the respective agency.

3. Studies without an AD, HRP, or PB number may be obtained directly from the following address:

   Research Department
   Naval School of Health Sciences
   Bethesda, MD 20814-5033

   Telephone: AUTOVON 295-1467
              COMMERCIAL (202) 295-1467
PART IV

RESUMES
**NAME:** KAREN A. RIEBER  
Commander, Nurse Corps, U.S. Navy  
Director, Research Department  
Naval School of Health Sciences  
Bethesda, Maryland

**EDUCATION:**

<table>
<thead>
<tr>
<th>Degree</th>
<th>Year</th>
<th>Institution</th>
<th>Location</th>
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<tr>
<td>B.S.N.</td>
<td>1966</td>
<td>University of San Francisco</td>
<td>San Francisco, California</td>
<td>Nursing</td>
</tr>
<tr>
<td>M.N.</td>
<td>1975</td>
<td>University of California</td>
<td>Los Angeles, California</td>
<td>Community Mental Health Nursing Administration</td>
</tr>
<tr>
<td>D.N.Sc.</td>
<td>1982</td>
<td>Catholic University of America</td>
<td>Washington, DC</td>
<td>Nursing Administration Research</td>
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**MEMBERSHIPS:**

- American Nurses Association Council of Nurse Researchers  
- National League for Nursing  
- Washington Area Nurse Researchers Consortium  
- Sigma Theta Tau, National Nurses Honor Society  
- UCLA Nursing Alumni Association  
- Association of Military Surgeons of the United States, Nursing Section Member

**PUBLICATIONS/TECHNICAL REPORTS:**


Proceedings:


Technical Reports


3. KAY, T. L. and RIEDER, K. A. Accounting for Variations in Patient Length of Stay in Naval Hospitals Using Diagnosis Related Groups (DRGs) as a Case Grouping Method. NSHS #S-1-83, November 1983.


5. RIEDER, K. A. and DI BIASE, R. Nursing Services Patient Care Standards and Care Planning Guide (Using Nursing Diagnoses). Naval Hospital, Bethesda, MD, 1983. NTIS HRP-0906098/9/WHP.


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Commander, Medical Service Corps, U.S. Navy
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EDUCATION:
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Detroit, Michigan
Psychology

M.A. 1967 University of Detroit
Detroit, Michigan
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Ph.D. 1977 University of Minnesota
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MEMBERSHIPS:
American Psychological Association
International Neuropsychological Society
American Group Psychotherapy Association
American Association for the Advancement of Science
Association of Military Surgeons of the United States
Virginia Psychological Association
Association for the Advancement of Psychology

PUBLICATIONS:

1. TOWNSEND, R. E.; HOUSE, J. F.; and ADDARIO, D. Treatment of Chronic
   Anxiety with Biofeedback-Mediated Electromyographic Relaxation: A

2. TOWNSEND, R. E.; HOUSE, J. F.; and JOHNSON, L. C. Auditory Evoked
   Response in Stage 2 and REM Sleep During a 30 Day Exposure to Tone

3. HOUSE, J. F. and NAITOBO, T. Lateral Frontal Slow Potential Shifts
   Preceding Language Activity in Deaf and Hearing Adults. *Brain and
NAME: CAROLYN S. WARREN
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Research Associate, Research Department
Naval School of Health Sciences
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San Antonio, Texas
Nursing

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Health Administration

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American College of Healthcare Executives
American Nurses Association
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Workload Management System for Nursing Project Officer
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Nursing
M.S.N. 1973 University of Illinois
Chicago, Illinois
Medical Surgical Nursing
M.S. 1984 Naval Postgraduate School
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MEMBERSHIPS: Sigma Theta Tau (Alpha Lambda)
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EDUCATION: B.A. 1979 University of Washington (Magna Cum Laude)
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Psychology

M.S. 1981 University of Washington
Seattle, Washington
Industrial/Organizational Psychology

MEMBERSHIPS: American Psychological Association
Eastern Psychological Association
Academy of Management
Phi Beta Kappa

PUBLICATIONS:


3. STEELE, T. P., HOLMES, S. A.; HIGGINS, J. L.; and RIEDEL, K. A. Perceptions of the Educational Coordinator's Role in the Navy Medical Department. NSHS #3-3-05, March 1935.
NAME: ANDREW A. ZBIKOWSKI
GS-1530-11, Statistician, Research Department
Naval School of Health Sciences
Bethesda, Maryland

EDUCATION: B.A. 1976 Southern Connecticut State College
New Haven, Connecticut
Sociology
M.S. 1979 Southern Connecticut State College
New Haven, Connecticut
Research Measurement
1979 University of Michigan
Ann Arbor, Michigan
Post-Graduate studies
1981- 1984 U.S. Department of Agriculture
Graduate School
Washington, DC
Computer applications in statistics
1984- present Georgetown University
Washington, DC
Master's Program in Demography

MEMBERSHIPS: American Statistical Association
Population Association of America
END

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