

LIBRARY RESEARCH SECTION NEWSLETTER

SPRING 1989

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LIBRARY RESEARCH SECTION MID-WINTER PROGRESS REPORT

The Library Research Section held its annual business meeting on May 23, 1988 during the national meeting in New Orleans. Nancy Woelfl reported that the contributed papers session "Unanswered Questions: Evaluation-Environment-Emerging Issues" sponsored jointly with the Medical School Libraries Section was very successful. The members accepted the report of the nominating committee, voted to participate in centralized dues collection, decided to sponsor a contributed papers session at the 1989 annual meeting and agreed to explore the possibility of sponsoring a symposium at the 1989 meeting. Reports were received from the chairs of four newly-established committees: Karen Hackelman (CE Liaison), Jackie Bastille (MLA Research Issues), Phyllis Lansing (Research Resources) and Ann Weller (Membership). Elizabeth Wood agreed to serve as Newsletter Editor.

In conjunction with the Committee Chairs, the Section Chair established sixteen specific objectives for the year. Substantial progress has been made on many of these objectives:

- (1) A newsletter was published in August.
- (2) Kathlyn Reed of the Research Resources Committee developed an annotated Research Bibliography which will be distributed at Chapter meetings by the Membership Committee and to Library Research Section members with the Spring newsletter.
- (3) Ruth Fenske of the Research Resources Committee created a list of MLA members who have Ph.D.s or who are doctoral candidates. The list is being used to designate research mentors in each region of the country.

- (4) Patricia Gibson issued a call for papers for the Boston program, "Research: Foundation for the Future."
- (5) A Research Report form to gather information about medical library research activities and resource persons was distributed to all Section members, and will be sent to other MLA members through Chapter and Section newsletters and the MLA News. Neil Rambo of the Research Resources Committee is collecting and organizing the results.
- (6) The Section is co-sponsoring with the Hospital Library Section an all-day symposium at the 1989 annual meeting. The title is: "Evaluation in Health Sciences Libraries: Measuring Our Contribution and Our Value."
- (7) The Research Issues Committee is presently working on a list of high priority research issues to submit to the MLA Board as suggestions for the MLA Research Agenda.
- (8) The Research Issues Committee is preparing an announcement for the MLA <u>News</u> asking for information on existing academic sabbatical or release time programs for librarians to perform research.
- (9) A tutorial on how to prepare a Case Study has been partially completed by Peter Vigil of the Research Issues Committee.
- (10) Nancy Fazzone of the Research Issues Committee and new member Jacqueline Doyle are writing an article on research for hospital libraries which will be published in the next Hospital Library Section newsletter.
- (11) In response to a request from the new editor, the Section conducted a survey to determine the feasibility of publishing a research-oriented column in the <u>Bulletin</u>. The chair prepared a report based on the results.
- (12) The CE Liaison Committee is developing a questionnaire to assess the interest of MLA members in research and to see how well their needs are being met. The Committee submitted an application to MLA for \$500 to help pay the costs.

The Section has 98 members including 18 who joined since May and \$357.00 as of October 17, 1988.

MOTION

This report is informational and requires no action by the Board of Directors.

Carol H. Fenichel, Ph.D. Chair

Date: October 21, 1988

SECTION OFFICERS:

Carol H. Fenichel, Chair
Patricia Gibson, Chair-elect
Erika Love, Past-Chair
Ann C. Weller, Secretary/Treasurer
Trudy Gardner, Section Council Representative
Carolyn Ann Reid, Section Council Alternate
Karen Brewer, Government Relations Committee Liaison
Elizabeth H. Wood, Newsletter Editor

BOSTON '89 CONTRIBUTED PAPERS PROGRAM

Be sure to attend our Section's program on Sunday, May 21, 4:00 - 5:30 p.m.!

The theme is "Research: Foundation for the Future." Erika Love will moderate our contributed papers session, which promises to be excellent.

Peter Vigil will present a philosophical paper, "Research and Problem Solving: the Medium and the Message Revisited;" and Nancy Woelfl, Ph.D., will react to Vigil's paper.

Then, Suzanne Grefsheim and Diana Cunningham will report on their Biotechnology Awareness Study funded by the National Library of Medicine. A biotechnologist, John Alexander Smith, M.D., Ph.D., of the Department of Molecular Biology, Massachusetts General Hospital, will react to their papers.

Our Section business meeting will follow the program session on Sunday.

"EVALUATION IN HEALTH SCIENCES LIBRARIES" -- SYMPOSIUM MEASURING OUR CONTRIBUTION AND OUR VALUE

Co-Sponsored by the Hospital Libraries Section and the Library Research Section

As cost constraints on the healthcare industry increase it will become more necessary than ever for medical libraries to provide data to justify support of their programs and use of resources. This symposium will provide practical help for those who want to undertake an evaluation project in a health sciences library. The goals are to help participants understand the basics of good evaluation design and to give enough specific information to enable them to design and carry out an evaluation project in one of the topical areas covered. The symposium will also provide a forum for inquiry for individuals interested in evaluation and applied research in health sciences libraries.

Who Should Take this Course? The course is intended for librarians who have no experience with formal evaluation, as well as those who have carried out evaluation projects but would like specific advice on carrying out a hospital quality assurance project or undertaking a formal evaluation in one of the other specific areas covered. CE credits have been applied for.

PROGRAM

8:00AM - 8:45AM Registration & refreshments

8:45AM - 9:00AM Welcome & Introductions

Jacqueline D.Doyle, Director of the Health Sciences Library, Good Samaritan Medical Center, Phoenix Chair-elect, Hospital Libraries Section

Carol H. Fenichel, Ph.D, Director of the Library Hahnemann University, Philadelphia Chair, Library Research Section

9:00AM - 10:00AM Keynote Address: Values and Evaluation: Assessing Contributions of Health Sciences Libraries to Clinical Care

David N. King, Assistant Professor College of Library and Information Science University of Kentucky

10:00AM - 10:45AM Panel

King Study Replication Experiences: Why Replicate? Methods & Modifications, Results, Problems & Issues, What to do Next Tamara A. Turner, Director of Libraries Children's Hospital and Medical Center, Seattle

Kay E. Wellik, Manager, Health Sciences Library St. Joseph's Hospital and Medical Center, Phoenix

10:45AM - 11:10AM Break

11:10AM - 12:30PM Brushup Your Evaluation Skills

Joanne G. Marshall, Assistant Professor University of Toronto

12:30PM - 1:30PM Lunch

1:30PM - 2:45PM Part 1: Concurrent Discussions

1. Hospital Library Quality Assurance Plans

Leader: Christiane J. Jones, Chief Library SVC Veteran's Administration Medical Center, Biloxi

- 2. Measuring the Library's Effect on Patient Care
 Leader: David N. King, Assistant Professor
 School of Library and Information Science
 University of Kentucky
- 3. Journal Collection Evaluation

Leader: Daniel T. Richards, Collection Development Officer National Library of Medicine

- 4. Evaluation of Reference Services

 Leader: Ruth E. Fenske, Ph.D., Health Sciences
 Librarian (Urbana), Library of the Health Sciences
 Urbana, University of Illinois at Chicago
- 5. User surveys
 Leader: Prudence Dalrymple, Ph.D., Assistant Profes
 sor, Graduate School of Library and Information Science,
 University of Illinois at Urbana/Champaign
- 6. Evaluation of Online Services

 Leader: Nancy Woelfl, Ph.D., Director, McGoogan
 Library of Medicine, University of Nebraska Medical
 Center

2:45PM - 3:00PM Break

3:00PM - 4:15PM Part 2: Concurrent Discussions (continued)

4:15PM - 4:45PM Wrap-up

The afternoon discussion groups will be limited to 15 persons, including speakers. The discussions will cover the possibilities for carrying out these projects, including the pros and cons of various approaches. Chalkboards or easels will be available for working through ideas. Participants are encouraged to bring their ideas, instruments and questions for feedback from the group. Sample survey instruments and other data gathering tools collected from health sciences libraries will be provided. It is necessary to sign up for a topic at the time of registration and attend both parts of the same topic. See the registration form.

EVALUATION INSTRUMENTS CALL FOR SAMPLES

The aim of the symposium outlined above is to provide practical help for MLA members who want to undertake a formal evaluation project. The keynote address will present a brushup session which will review the basic steps in evaluation of library collections and services.

To help focus the discussion and to give attendees a starting point for their projects we plan to distribute sample survey forms and other data gathering tools which have been used by health sciences libraries. We are asking MLA members who have developed questionnaires and other evaluation instruments in these subject areas to contribute the samples. If you have materials you have used and would be willing to share (and subject to constructive criticism) send copies to:

Carol H. Fenichel, Ph.D.
Chair, MLA Library Research Section
Library M.S. 449
Hahnemann University
245 North 15th Street
Philadelphia, PA 19107

Deadline: February 25,1989

Sometimes we learn as much from projects that are only partially successful as from our smashing successes, so do not feel that your materials need to be perfect to be useful.

All forms which are selected for use in the discussion groups will be acknowledged in the program handouts. All libraries sending sample instruments for consideration will receive free of charge the complete set of instruments distributed at the symposium whether or not they have staff who attend.

EDITOR'S NOTE

Please find the 1989 Ballot enclosed. DO NOT PHOTOCOPY the ballot. It is printed on colored paper deliberately, to authenticate responses. Thank you.

MEDICAL LIBRARY ASSOCIATION RESEARCH BUBLIOGRAPHY

Prepared by Kathlyn L. Reed, Ph.D., Mils

August, 1988

DOORS ON RESEARCH

looks for the Commune of Basesco

Katser J. Cook 104, Crouch WW. (1981) <u>Evaluating Information: A Guide for Users of Social Science Research</u>
2nd ed., Reading, MA, Addison-Wesley. H 62 K19e
-The purpose of the book is to teach people to understand and evaluate published research reports.

Leedy PD. (1981) <u>How to Read Research and Understand I</u>J. New York, NY, Mocmilian. Q 180.55 M4 L484h -The author discusses how to read a research article and understand its content in nonnechnical lenguage. Juffe AJ, Spirer HF. (1967) Misuaed Statistics. Straigh: (all. for Technol Number). New York, NY. Marcel Dekker

-The goal of the text is to help people become critical observers of statistics and to understand how statistics can be used correctly or incorrectly to support a point of view. HA 29 J23m

healt on Research Medhed

Babbie, ER. (1983) <u>The Practice of Social Research</u>. 3rd. ed. Belmont, CA, Wadsworth. H 63 B113p. A good general text on the fundamental logic and skills of research.

interviewing is used frequently to gather data for research projects but usually is given scant attention in basic research tezts. This text is a useful and comprehensive reference for anyone using an interview format as part of the methodology in a research project. Press. BF 76.5 R432 Brenner M., Brown J., Canter D. (1985) <u>The Research Interview: Uses and Agaroaches</u>. Orlando, PL, Academic

Busha CH, Harter SP. (1960) <u>Research Methods in Librarianship: Techniques and Interpretation</u>. New York, NY Academic Press. 2 669:7 B978p

This textbook is an introductory account of the rationale and methods for research in library and information science. Its goal is to provide insights and discuss technical skills needed to plan, conduct, and analyze research

Cook TD, Reichardt CS. (1979) <u>Qualitative and Quantitative Methods in Evaluation Research</u>. Beverly Hill, CA, Sage Publications. H 62 A1034

The authors describes the differences between qualitative and quantitative research methods and include several brief chapters on various types of qualitative methods.

Pewcett J, Downs PS. (1996) <u>The Relationship of Theory and Research</u>. Norwalk, GN, Appleton-Century-Crofts.
Q 100 A1 F279:

The purpose of the book is to present a detailed discussion of the relationship between theory and research to provide information seeded for the analysis and evaluation of research reports and proposeds for new studies.

leac S & Michael WB. (1981) <u>Handbook in Research and Evaluation</u>. 2nd ed. San Diego, CA, EdiTS Publishers

It provides very useful automatics of common projects This book provides an overview of major methods of research, statistical analysis and measurement instruments. It provides very useful summaries of common problems and solutions in designing, conducting, analyzing and

MLA Library Research Section Research Bibliography August, 1988

Kerlinger PN. (1986) <u>Feundations of Behavioral Research</u>. 3rd ed. New York, NY. Holt, Rinehart and Winston. BF 101 K39f

An excellent general textbook on research. It is one of the most frequently cited texts purpose of research in the behavioral sciences. on the nature and

Marryn J. Lancaster FW. (1981) <u>Investigative Methods in Library and Information Science: An Introduction</u> Adlegen, VI, Information Resources Press. Z 669.7 M3281

The purpose of this book is to describe the major investigative techniques relevant to research and evaluation in the fields of library and information services and to suggest which techniques seem most appropriate to examine specific problems in library research.

Powell RR. (1985) <u>Basic Research Methods for Librarians</u>. Norwood, NJ. Ablez. Z 669.7 P885b. A good general tembook on the research methods used most frequently by librarian.

Switcher R, McClure CR. (1994) Bestesch fer Decision Making: Methods for Librarians. Chicago, IL, American

Library Association. Z 669.7 8979;

The book discusses the concept of "action research" which is designed to increase the practicing librarian's skills in making decisions and improving the overall effectiveness of libraries. Several chapters on statistical analysis are included.

helu on Statistic

Carpenter R.L. (1978) <u>Statistical Mathada for Librarians</u>. Chicago, N., American Library Association. HA 29 C296s -The text is aimed at providing a basic understanding of statistics, statistical analysis and its usefulness to library researchers.

Fingerman J, Lyders R. (1986) <u>Applied Statistics for Librarians: A Primer in Statistical Techniques and Library</u>
<u>Application</u>. Houston, TX. Association of Academic Health Sciences Library Directors. Z 669.8 P497s
-Test is particularly useful in analyzing and interpreting data gather from a survey or questionnaire. It was prepared as an adjunct to the <u>Annual Statistics of Medical School Libraries in the Librarie and Canada</u>.

Howell DC. (1967) <u>Significal Methods for Psychology</u>. 2nd ed., Bosten, MA, Bushury Press. 8f 39 HS59:
One of many good general textbooks on statistics. The author stresses understanding why the statistical method is used as well as how to do it.

Oshes M. (1996) <u>Statistical Inference: A Commentary for the Sacial and Behavious Sciences</u>. Chichester, England, John Wiley & Sons. 14A 29 011s

This test is aimed at the purson with some basevisdage of statistics who needs more advanced information.

Straws A. (1997) <u>Qualitative Analysis for Social Scientists</u>. Combridge, MA, Combridge Press. H 61 5912q. This book presents a systematic method for insurpreting qualitative data whether derived from inserviews, field nests, or documentary meterials. Also included are the tools for doing qualitative analysis such as codes, memos, memo sequences, theoretical sampling and comparative analysis and diagrams.

ARTICALIS AND BOOKS ON SPECIFIC RESEARCH METHODS

tion of Bank Conces

Allen GG. Management and the conduct of in-house library research. 1995:8;155-62. Library and Information Science Research

-identifies and discusses three major reasons for conducting in-house library research; planning, problem selving, and staff development. Also included are ten proposed stages of a research project and the role or attitude that management must adopt at each stage to encourage success.

MLA Library Research Section Research Bibliography August, 1988

Marchette L. Rassarch: The levels of research framework. Estimatesty: Narsing Countetty 1986:2(3):76-83.
-Identifies three levels of research: descriptive, correlational, and experimental, and discusses the approach, goal and meethed associated with each level. Also differentiates between the levels and describes the uses for each level in the framework of research methodology. Although written for nurses it is an excellent summary.

Marchette L. Research: Designs. <u>Parlenszaites Mandes Counse 1907</u>:3(1);67-71. Discusses three types of experimental design studies featus and effect): true experimental, quasistraental, and pre-experimental; differentiases between the three types and gives examples.

Zaker MK. Research: From concept to variable. Exclanazates Maraing Quaracty 1965:1(3);73-7.

This paper describes the process of identifying the variables in a research problem and operationally defining the variables within the research formet.

Channan EA. Pield research: Methodological themes. Library and information Science Research 1944:6,425-38. An everview of field research so it relates to library literature. Differences between field research (qualitative) and quantitative (correlational or experimental) are discusses.

Duffy ME. Quantitative and qualitative research: antegenistic or complementary? Muring A Litalih Care 1947:8(6):356-7.

Author compares and contrasts the difference between quantitative and qualitative research designs.

Marchette L. Rasearch: The literature review process. <u>Entingenting Munice Counterfy</u> 1985:1(4);69-76. -Outlines the process through which a person abouid go to review the literature relevant to a research project

Marchette L. Rasearch: Selecting an instrument. <u>Perioagrative Nursing Charteriy</u> 1986:2(4);76-8). -Article outlines the criteria which should be used to evaluate an instrument or test which is being considered for the collection of data in a research project.

Hawthern PJ. Principles of research: A checkider. Naming Iljans 1983/79(23);41-3. -Auther provides a useful checklist of issue to consider when undertaking a research project and when evaluating a research report.

Theory Africal Building Research

eweek for theory building in library and information science. Library and Grover R. Glazier J. A conceptual from

Information Ectence Research 1995:61:237-42.

This settle regions a model for theory building which proposes relationships among phenomena and various lavds of theory and research. The result is a taxonomy intended to provide a framework for researchers and theories to conceptualise research for building and sorting theory in library and information actence.

Pageson R. The Sevention theory of indexing and information supply. Journal of the American Seciety for

Information Science 1995:34(2):116-29.

The proposed theory is based on chemical information which is believed to rest on five axioms: definability, order, sufficient degree of order, representational productability, and representation fidelity. Use of the axioms may be of sestemes in the duality of information systems and research projects.

lichel HS. A bellemente dienfauten which really worte. Jaurnal of the America. Society for Information

School 1985:36(3);314-21. -This article discusses a mathematical model called the Generalized Inverse Gaussian-Poisson Distribution which can be used to explain bibliometric frequency distributions.

MLA Library Research Section Research Bibliography August, 1988

hadiacive Method

Grover R, Glazler J. Implications for Application of Qualitative Methods to Library and Information Science Research. Library and Information Science Regearch 1965:7;247-60. The purpose of the article is to analyze the qualitative research methodology in relation to its application in

library and information science.

Walher CL. Qualitative research methodology, Journal of the Association of Padienic Oncology, Nurse, 1997:4(1 A 2);51-5.

Author decuses the purposes of qualitative research and describes some collection methods, and approaches to data amalysis.

Historical Research

Molyneus RE. Patierns processes of growth, and projection of library size: A critical review of the literature on scademic library growth. Library and Information Science Retearch 1986:8;5-28. Arviews the relative growth of libraries from the turn of the century and uses the information to project library growth in the future.

Shafer RJ. <u>Guide to Historical Method (A)</u>. (1960). 3rd. ed., Homewood, II., Dorsey Press. D 16 G946 -Author discusses historical concepts, methods of research, access to literature, writing results and communicating the Andings. Luctura ME. Historical rusearch: one step back...Two steps forward. <u>Journal of Post Anesthesia Nursing</u> 1988.3(1);49-52. -Author discusses the basics of how to plan and conduct a historical research project.

Cherman Summaries

Peehan RE, Gragg WI., Havener WM, Kester DD. Library and Information Science Research: An analysis of the 1984 journal literature. Library and Information Science Research 1987:9:173-95.

A report of a project designed to survey, analyze and characterize issues and trends in library and information science research published during 1984 in 91 English language journals devoted to library and information science concerns. Borgman CL. Why are entire catalogs hard to use? Leasons learned from information-retrieval studies. <u>Journal</u> of the American Society for Information Science 1996;37(6):387-400.

-User problems with both the mechanical and conceptual aspects of system use are reviewed. Also discussed are presential sources of the problems and suggestions for alteriating some of those problems.

Case Study Method Besearch

Pidel B. Online searching styles: A case-study-based model of searching behavior. Journal of the American Sector for Information Science. 1994:35(4):211-21.

A model was developed based on the observation of five experienced online searchers doing their searches and on the ambjule of the searches conducted by the searchers. The observations were divided into operationalist and conceptualist searches and subdivided into the proparation stage, the search proper and quality controls and

Pidel R. The case study membed: A case study. Liktary and information Science Research 1904:6;273-88.

-The case study membed was used to develop a model of enline nearching. The case study method is flexible.

Den gethering and analyses are determined primarily by the subject matter and specific procedures are decided upon by the matter and specific procedures are decided upon by the matter.

MLA Library Research Section Research Bibliography August, 1966

SHOWY/Questionnaire Research

Berdie DR, Anderson JP, Niebuhr MA. (1986) <u>Obestionnalize: Design and Ubs</u>. 2nd ed.; Metuchen, NJ. Scarecrow Press. BP 39 B486q

·The purpose of this book is to and return the questionnaire assist the researcher to design a good questionnaire and get people to fill out

Line, 1485 (1982). Library Surveys: An Introduction to Their the Planning Procedures and Presentation, 2nd ed.

Landon, Clive Bingley. -This book discusses use and planning of surveys, collecting the information, processing and analyzing the data,

Schmidt KA The acquisitions process in research libraries: A survey of ARL libraries' acquisitions departments

Library Acquisitions: Practice & Theory 1967:11;35-44.

A survey of acquisitions departments in ARL libraries in the United States and Canada was conducted in 1965 to describe the organizational structure, investigate the processes included in acquisitions, discern the level of personnel performing various tests and accertain the salary levels of acquisitions librarians. The response rate

Bookstein A. Questionnaire research in a library setting, <u>Istamal of Academic Librarianshin</u> 1985:11(1);24-28.

Article discusses some of the flave or problems with questionnaires as a mones of gathering data. Discussion is based on two studies which attempted to assess the degree to which people differed in their interpretations

M/Testing of Scales Research

Dunn-Rankin P. (1963) <u>Scaling Methods</u>. Hilisdale, NJ. Lavrence Erlbaum Associates. BP 39 D923s.

This text addresses the needs of researchers who are interested in the measurement and representation of attitudes, values, interests, perceptions etc. A variety of scaling methodologies are presented.

Pungitore VL. Development and evaluation of a measure of library automation. Library and information Science

Remarch 1986:9;67-43.

This paper discusses the development and testing of a scale designed to measure the extent to which automation is utilized in public and academic libraries. Construct validity and reliability estimates are included.

Correlating Research

Auster E, Lewton SB. Search interview techniques and information gain as antecedents of user actifaction with entire bibliographic retrieval. Jaurani of the American Society for Information Science 1994;35(2):90.103.

The purpose of this study was to investigate the relationships between techniques used by search analysts during preliminary inserviews, the amount of new information gained by the user as a result of a search and the user's ultimate entificient with the quality of the items retrieved. The findings are discussed.

and infernation <u>Echana Research</u> 1984:6;179-90.

The study explores the relationship between personality, as represented by Rotter's internal versus external control and frequency of public library use. Peredi RR. Library we and personality. The relationship between locus of central and frequency of use. Library

MLA Library Research Section Research Bibliography August, 1988

Thacker SB. Meta-analysis: a quantitative approach to research integration. <u>JAM</u>Ó 1986 (March 18):259(11);1685.

Meta-analysis is a technique which attempts to improve on traditional methods of narrative review by analyzing information from several studies and quantifying the results. Combining data from several studies using meta-analysis can increase statistical power, provide insight into the nature of relationships among variables, and

Health Care 1980:9(6);287-8.

-Author briefly discusses the technique of meta-analysis, the approaches used, the gods and some concerns Duffy ME. Mess-Analysis: A quantitative approach to synthesizing research findings across studies. Naming and

Experimental Design

Greenwood L. & McKean H. Effective measurement and reduction of book loss in an academic library. <u>Journal</u> <u>91. Academic Librationship</u> 1985:11(5):275-83.

The article describes a multiphased project to measure and reduce book loss due to theft. The study compares results before and after changes were made in the entrance and exit passages to the library.

Evaluative or Outcomes Beauty

Schwartz DG, Bakin D. Reference service standards, performance criteria, and evaluation. <u>Journal of Academic Librarianthin</u> 1966; 2(1);4-4.

-The study reports the effect of the University of Michigan Library system to establish measurable criteria for the performance evaluation of reference/information service librarians. The standards are included.

the James is Beauty)

Marchette L. Research: Getting funding. <u>Perlanerative Nutring Quarterly</u> 1967:3(2);71-6 Outlines and discusses eleven steps in the research funding process.

Cobb AK, Hagemanter JN. Ten criteria for evaluating qualitative research proposals. <u>Amunal of Nursing Education</u> 1907:26(4):138-43. Authors present some guidelines for evaluating or critiquing a qualitative research proposal

Magrill BM. Publishing of research in librarienship. Library Transk: 1904:32(4);557-77.

Author capteres the sources of published librariers in library research. Article is useful both in planning for a library review and in deciding where to subsuit a measurcript ready for publication.

988:37(1);49-52. useen Shift. Collaborative research and authorship credit: Beginning guidelines. Nursing Research

Article examinations the literature on guidalines for deciding who should be the primary and secondary authors when a puper is prepared for publication.