Research Matrix Fear? EndNote to the Rescue!

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Objective

School of Nursing PhD and Doctor of Nursing Practice students accumulate articles for their final projects over several years. This poster shows how EndNote was used to create a research matrix to efficiently manage and evaluate journal articles, while relieving student anxiety over how best to keep organized.

Problem

During a Library EndNote session, a nursing student identified a need for a way to reduce duplication of data recording.

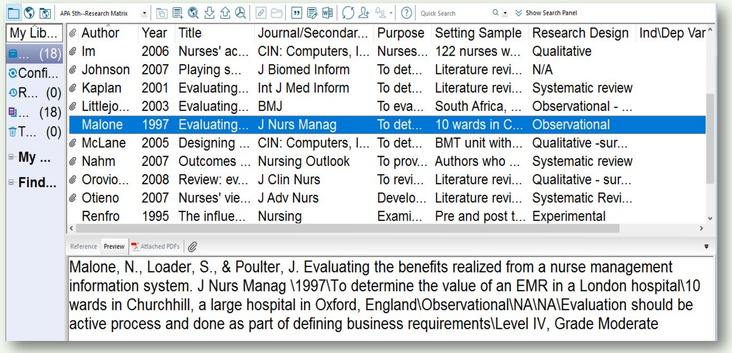
Solution: Creating the Matrix

The student and librarian then collaborated to explore the use of EndNote as a means of gathering and reporting article data, including purpose, setting, research design, etc., in an Excel matrix.

Steps included

- Identifying unused fields in an EndNote reference
- Modifying **Journal Article Reference Type** to create matrix fields
- Editing **APA 6th Output Style** to include the matrix fields
- Exporting completed references into Excel and formatting them
- Developing and sharing a handout in succeeding classes

Research Matrix EndNote Library



Author	Year	Title	Journal/Secondar...	Purpose	Setting Sample	Research Design	Ind\Dep Var
Im	2006	Nurses' ac...	CIN: Computers, I...	Nurses...	122 nurses w...	Qualitative	
Johnson	2007	Playing s...	J Biomed Inform	To det...	Literature revi...	N/A	
Kaplan	2001	Evaluating...	Int J Med Inform	To det...	Literature revi...	Systematic review	
Littlejo...	2003	Evaluating...	BMJ	To eva...	South Africa, ...	Observational - ...	
Malone	1997	Evaluating...	J Nurs Manag	To det...	10 wards in C...	Observational	
McLane	2005	Designing ...	CIN: Computers, I...	To det...	BMT unit with...	Qualitative -sur...	
Nahm	2007	Outcomes ...	Nursing Outlook	To prov...	Authors who ...	Systematic review	
Orovio...	2008	Review: ev...	J Clin Nurs	To revi...	Literature revi...	Qualitative - sur...	
Otieno	2007	Nurses' vie...	J Adv Nurs	Develo...	Literature revi...	Systematic Revi...	
Renfro	1995	The influe...	Nursing	Exami...	Pre and post t...	Experimental	

Malone, N., Loader, S., & Poulter, J. Evaluating the benefits realized from a nurse management information system. J Nurs Manag \1997\To determine the value of an EMR in a London hospital\10 wards in Churchhill, a large hospital in Oxford, England\Observational\NA\NA\Evaluation should be active process and done as part of defining business requirements\Level IV, Grade Moderate

Reference Type Modification

Custom 3	**Purpose**
Custom 4	**Setting Sample**
Custom 5	**Research Design**
Custom 6	**Ind\Dep Variable**
Custom 7	NIHMSID
Custom 8	Article Number
Accession Number	Accession Number
Call Number	Call Number
Label	Label
Keywords	Keywords
Abstract	Abstract
Notes	Notes
Research Notes	Research Notes
URL	URL
File Attachments	File Attachments
Author Address	Author Address
Figure	Figure
Caption	**Results**
Access Date	Access Date
Translated Author	Translated Author
Translated Title	**Evidence**

Information Entered Into Matrix Fields

Purpose
To evaulate the formative (implementation) and summative (Cost and benefits) aspects of a CIS install country-wide

Setting Sample
South Africa, Limpopo Province

Research Design
Observational - questionnaie

Ind\Dep Variable
NA\NA

Accession Number
12702622

URL
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC153478/pdf/860.pdf

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Results
Implementation failed due to multiple issues

Evidence
Level IV, Grade High

Edit Output Styles

APA 6th

Bibliography Templates

Edited Template

Journal Article

Author. Title|. Journal| \Year\Purpose\Setting Sample\Research Design\Ind\Dep Variable\Results\Evidence

Excel Spreadsheet

Citation	Year	Purpose	Setting Sample	Research Design	Independ. Variable	Depend. Variable	Results	Evidence
Johnson, K. B., & Gadd, C. Playing smallball: approaches to evaluating pilot health information exchange systems. J Biomed Inform	2007	To determine best approach for evaluation of HIE systems	Literature review of current practice	N/A	NA	NA	Evaluations should include 2 co-variates - system evaluation and environment - human factores	Level V, Grade Moderate
Kaplan, B. Evaluating informatics applications--clinical decision support systems literature review. Int J Med Inform	2001	To determine best approach for evaluation of CDSS	Literature review - automated from 1997 and 1998, manual search done to supplement. 27 studies in 35 papers	Systematic review	NA	NA	Plurality of approaces - with emphasis on user-acceptance	Level I, Grade High
Littlejohns, P., Wyatt, J. C., & Garvican, L. Evaluating computerised health information systems: hard lessons still to be learnt. BMJ	2003	To evaulate the formative (implementation) and summative (Cost and benefits) aspects of a CIS install country-wide	South Africa, Limpopo Province	Observational - questionnaie	NA	NA	Implementation failed due to multiple issues	Level IV, Grade High

Final Capstone Matrix

Citation	Year	Purpose	Setting Sample	Research Design	Ind. Variable	Dep. Variable	Results	Evidence
Johnson, K. B., & Gadd, C. Playing smallball: approaches to evaluating pilot health information exchange systems. J Biomed Inform	2007	To determine best approach for evaluation of HIE systems	Literature review of current practice	N/A	NA	NA	Evaluations should include 2 co-variates - system evaluation and environment - human factores	Level V, Grade Moderate
Kaplan, B. Evaluating informatics applications--clinical decision support systems literature review. Int J Med Inform	2001	To determine best approach for evaluation of CDSS	Literature review - automated from 1997 & 1998, manual search done to supplement. 27 studies in 35 papers	Systematic review	NA	NA	Plurality of approaces - with emphasis on user-acceptance	Level I, Grade High
Littlejohns, P., Wyatt, J. C., & Garvican, L. Evaluating computerised health information systems: hard lessons still to be learnt. BMJ	2003	To evaluate the formative (implementation) & summative (Cost and benefits) aspects of a CIS install country-wide	South Africa, Limpopo Province	Observational - questionnaire	NA	NA	Implementation failed due to multiple issues	Level IV, Grade High

http://mclibrary.duke.edu/endnotematrix.pdf