Being there, there and there: using research methodology to evaluate the effectiveness of librarians embedded in chart rounds within a multi-center Family Medicine residency program

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Being there, there & there: using research methodology to evaluate the effectiveness of librarians embedded in chart rounds within a multi-center Family Medicine residency program

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Background

- 1974 – UMMS Family Medicine residency - first in New England
- Three locations – 2 in Worcester (urban), 1 in Barre (rural)
- Librarian involvement began in 2002
Family Medicine Residency

• Each resident based at one of the three outpatient clinics
• PGY 1 – Significant inpatient coverage and other (e.g., Surgery) rotations
• PGY 2 – Increased patient care at “home” clinic
• PGY 3 – Most of year spent at “home” clinic.
Chart Rounds

• Held most days at all three Family Medicine sites
• Scheduled Residents and Faculty Preceptor(s) attend
• Difficult/Interesting cases are discussed
• Attendees use EMR, Radiologic Images and Library Resources to answer questions and determine next steps.
COMPLETE Guidelines

- Chart Rounds Guidelines developed in 2008 through AAMC/RMPHEC grant.

Chart Rounds at Hahnemann Family Health Center, 4/13/11. Librarian Judy Nordberg (3rd from left).
COMPLETE Guidelines

**Context** – Culture of context – who is the patient?

**Outside Visitors/Resources** – incorporate visitors/experts such as librarians, pharmacists and psychologists and utilize their resources

**Mental Health** – assess behavioral health aspects of the case

**Population Perspective** – address prevalence of the condition in the community

**Learn from Others** – consider specialists, home care, and complementary therapies

**Expectations** – clear goals set between physician and patient

**Time** – Start on time, end on time. Respect everyone’s time.

**End with “Culture of Continuity”** – what are the key lessons?

Is there a follow-up plan?
The “Experts”

- Librarians
- Clinical Psychologists/Behavioral Specialists
- Pharmacists
  - OTHER ATTENDEES
    - Faculty
    - Medical Students
    - Pharmacy Students
    - Osteopathic Students
2010 Chart Rounds Survey

• Survey conducted at 2010 Family Medicine Residents Spring Retreat.
• N=32 – 10 questions (plus space for comments)
• Residents asked to rate experiences on 10 measures using 5-point Likert scale.
• Sample questions include a) perceptions of experts’ input, b) academic challenge and c) faculty collaboration.
2010 Chart Rounds Survey

- Results compiled and analyzed by Department of Family Medicine researcher using SPSS 17.0
- Initial overall results presented at RMPHEC meeting 9/14/10 in Cleveland, OH
- Library-specific results and analysis presented here
Information retrieved by a librarian at chart rounds has helped increase my knowledge about a medical issue or a community health issue.

Significant difference between years, $\chi^2=16.15$, $p=.003$
Information retrieved by a librarian at chart rounds has changed my short-term and/or long-term treatment plan.

Significant difference between years, $\chi^2=13.61$, $p=.009$
As a result of having a librarian present at chart rounds, I am able to locate useful information more efficiently than in the past.

Significant difference between years, chi2=10.99, p=.027
Because of the structure of chart rounds, I now understand and utilize evidence-based resources more often and/or more effectively in my practice.
Analysis

• Lower satisfaction scores in PGY 1 possibly influenced by limited exposure to librarians during this year
• As they reach PGY 3, residents may feel more comfortable using library-supported decision tools themselves as opposed to relying on preceptor for guidance.
Interventions for Improvement

• Suggested changes/enhancements for AY 2011-2012
  – Attendance at Inpatient Morning Report (heavy PGY 1 attendance)
  – Reformulated library orientation for PGY 1 Family Medicine residents
New Survey

• A follow-up study to evaluate the above interventions will be given at the Resident’s Retreat in Spring 2012.

• A faculty survey, asking similar questions, was also recently distributed to preceptors at the three clinics. Results from this survey will provide additional data to continue the assessment of librarian involvement in Chart Rounds.