Medical information is
“One paper per minute is added to PubMed”
Pubmed contains 20 million citations.

724,831 were added in 2011 alone.

“The most astute physicians will no longer be differentiated by those who remember the most facts, but by those who sort and synthesize information the fastest”

Why is this critical now?

Top three resources used by PRECLERKSHIP U of M medical students to find information?

1. Wikipedia
2. Google
3. UpToDate

by straw poll

Speed, accuracy, and confidence in Google, Ovid, PubMed, and UpToDate: results of a randomized trial. Postgraduate Medical Journal 2010; 86 (1018) pp. 459-65
Why is this critical now?
Do my teachers think information sciences are important in their lives and how do they model it?

UM Students & residents reported as follows:

• There is great variability in faculty knowledge about & practical application of information literacy, informatics & EBM
• These skills rarely taught or assessed in class or clinical settings
• Faculty usually don't reveal how they discover, evaluate, sort and synthesize information
• Faculty often don't share how these skills are of value to them in clinical practice & ongoing professional development
• Faculty tend not to question students’ sources of information or recommend evidence-based alternatives
• Some faculty are technologically naïve
The New Reality for Students & Faculty

Volume
Velocity
Relevance
GOAL: *Domains and Competencies for lifelong learning* - RCPSC/CCFP

**Knowing one’s practice** – *Ability to use practice information to Identify learning priorities & develop & monitor CPD plans*

**Scanning the environment** - *Ability to access information sources for innovations in development & new evidence for potential integration into practice*

**Managing learning in practice** - *Ability to establish a personal knowledge management system to store and retrieve evidence & select and manage learning projects*

**Raising and answering questions** - *Ability to construct a question, search for evidence, record and track conclusions for practice*

**Assessing and enhancing practice** - *Ability to use tools and processes to measure competence and performance*
Information Sciences Purpose

Assist individuals to build a foundation in information literacy, informatics and evidence-based medicine designed to support clinical practice following graduation and to further the life-long learning capabilities of practicing physicians.
Your thoughts?