There are six Technology & Resources (T&R) sessions during the MMI course. Students will be divided into small groups for these sessions. Each group is led by a professional librarian. The goal of T&R is to help students begin to develop the skills necessary to find and manage information efficiently.

The teaching materials for T&R are found in the Med Students: Year 1 Guide on the Miner home page. The URL is http://libguides.urmc.rochester.edu/medstudents-year1.

**Session 1: Getting started**

At the end of this session, students will:

- Understand what is expected of them in T&R
- Be able to identify their Personal Librarian
- Be proficient in KeyNote
- Be able to locate and use MedlinePlus
- Discuss Wikipedia strengths and weaknesses
- Be comfortable using UpToDate
- Explore Public Health resources
- Locate and use the Library Catalog (Voyager)

Resources covered via hands on exercises:

- MedlinePlus for background and consumer health-level information
- Wikipedia: its role as encyclopedia (background information)
- UpToDate for background information
- Public Health LibGuide
- Voyager catalog

**Session 2: Tools you’ll use (answering background questions)**

At the end of this session, students will:

- Be able to distinguish between background & foreground questions
- Be able to access books via Access Medicine
- Be familiar with Clinical Key
- Understand what a clinical guideline is and where to find them
- Explore EPSS
- Locate additional eBooks
Resources covered via hands on exercises:

- Access Medicine – compilation of textbooks; home to *Harrison’s Principles of Internal Medicine, Current Medical Diagnosis & Treatment, Tintinalli’s Emergency Medicine* and more
- ClinicalKey – another compilation of textbooks; *Netter’s Atlas of Human Anatomy, Brody’s Human Pharmacology, Middleton’s Allergy: Principles and Practice*, and more
- Guidelines via ClinicalKey and UpToDate
- USPSTF – Recommendations for preventive care
- EPSS – the electronic preventive services selector tool, a handy way to see recommendations for preventive care
- Electronic textbooks

**Sessions 4 & 5: PubMed**

PubMed is the database that any health professional or biomedical researcher will use throughout their career. Learning how to use it effectively is important. These two sessions will focus on learning how to think about searching as well as some tips and tricks about using the database.

**Session 4: Intro to PubMed**

- Know the 3 keys for searching effectively
- Describe the contents of PubMed
- Access full text of articles from citations in PubMed
- Use PubMed filters
- Use the Clipboard in PubMed
- Construct a search using Boolean operators
- Learn to use Find Text@UR and interlibrary loan.

**Session 5: Advanced PubMed**

- Session 4 will consist of working through more complex search problems using Advanced Search options and MeSH
- Students will learn to use Web of Science for impact factors and Journal Citation Reports
- Watch a short video explaining the PICO(T) method for developing answerable clinical questions
**Session 3: Evidence Based Medicine**

At the end of this session, the students will:

- Be able to identify good evidence
- Be able to state the 5 steps of Evidence Based Medicine
- Formulate answerable clinical questions using the PICOT format
- Be able to identify 3 sources for finding evidence-based information
- Efficiently use PubMed Clinical Queries
- Know what a Systematic Review is

Resources covered with hands-on exercises:

- Cochrane Library
- PubMed Clinical Queries
- JAMA Evidence- provides guides to the assessment of health problems and the outcomes of health care
- Practice using PICO(T) – and formulating effective search strategies.

**Session 6: Clinical Tools**

At the end of this session, the students will:

- Be able to find drug information in Lexicomp and Natural Medicines
- Be comfortable using VisualDx
- Become familiar with the many tools in Essential Evidence Plus
- Demonstrate familiarity with the tools reviewed in all 6 sessions

Resources covered via hands-on exercises:

- Lexicomp – the comprehensive drug database used at URMC
- Natural Medicines - authoritative resource on dietary supplements, natural medicines, and integrative therapies.
- VisualDX – a clinical diagnostic support tool
- Essential Evidence Plus – a point-of-care clinical decision support system

**How to successfully complete T&R:**

Attend and Participate

And remember – even beyond T&R, you have a Personal Librarian.

Have a question? Can't find an article, document, or report? Contact your [Personal Librarian](mailto:personallibrarian@library.urmc.edu).