



Medical Library

Annual Report 2019-2020

School of MEDICINE

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Introduction

If the past two years have taught us anything, it is that there is no such thing as normal, and as a team the Medical Library group is resolved to banish the phrase, “When we get back to normal . . .”

We started the 2019/2020 academic year still somewhat in recovery mode from *The Great Kresge Flood of 2019* and ended it coping with the effects of a world-wide pandemic which moved all instruction online and all work and library services to remote. I am pleased to report that we rose to the challenge, supporting students and faculty with enhanced online services, new resource guides, and additional ebooks and databases. We also developed new ways to work together, making use of Slack, email, phone calls, and Google Meet to stay connected with each other and the students and faculty who rely on us. This new way of working has affected the use of our services – research consultations are up, shelving stats are down – in ways that can be seen in the coming pages. And in 2020/2021, we will strive to banish the phrase, “Due to COVID-19 . . .”

Instruction

In the 2019/2020 academic year, the Medical Library hosted a total of 41 instruction sessions including orientations for new medical students, faculty, and staff; Information Mastery sessions for students within and outside the curriculum; and workshops for OUWB faculty and Beaumont residents.

Students

New Student Orientation

On August 6, 2019, all incoming M1 students participated in the Medical Library orientation session. New this year, our orientation session was repeated twice on the same day with smaller groups, which worked extremely well. For both sessions, all students started in the Kresge Library Nyberg Room for a 30-minute presentation including introduction by Nancy Bulgarelli, Information Mastery overview by Dr. Misa Mi, and a website tour by Keith Engwall. The presentation was followed four small-group guided tours of Kresge Library led by Keith Engwall, Margie Suchyta, David Stewart, and Stephanie Swanberg. We regard this as the first session of the library's Information Mastery curriculum, which is threaded throughout the first two years.

M1 Embark Course

Information Mastery sessions in the Embark 1 and 2 courses were modified this year in several ways. Two previously separate sessions on expert searching and managing the literature were combined into a single, shortened 90-minute session. This reduced the total in-person sessions from six to five and the total contact time by 1.5 hours between the Fall and Winter semesters. The M1 Embark sessions are outlined in Table 1.

Table 1: Information Mastery Sessions in the M1 Embark Curriculum, 2019-2020

DATE	TITLE	INSTRUCTOR
August 14, 2019	Researching Potential Mentors (30 min) <i>Repeated twice in the same day to accommodate course calendar</i>	Stephanie Swanberg
December 9, 2019	Literature Cited Lab (90 min)	Stephanie Swanberg
January 15, 2020	Resources for Writing Your Project Proposal Background (90 min)	Keith Engwall
March 9, 2020	Introduction to Systematic Reviews (120 min)	Dr. Misa Mi
May 11, 2020	Identifying External Sources for Funding Research Projects (30 min - recording from previous year used due to COVID-19)	Keith Engwall

Course and session objectives, teaching methodologies, learning activities, and assessments for each session were revisited and updated. Each session combined didactic lecture, demonstration, and active learning activities aimed at developing skills in the selection, searching, and evaluation of medical information resources. In addition, the scheduled weekly student project proposal writing times were cancelled due to COVID-19. Students were encouraged to use the dedicated time as self-directed learning to work on their projects and contact faculty and staff with any questions via email.

M2 Embark Course

The M2 Embark Course focuses on scholarly dissemination practices for presentations and publication. Medical Library faculty increased their in-class contact time this year with the introduction of rotating workshops on various topics into the course schedule. Overall, four additional contact hours were added with four sessions, as outlined in Table 2:

Table 2: Information Mastery Sessions in the M2 Embark Curriculum, 2019-2020

DATE	TITLE	INSTRUCTOR
August 13, 2019	Conducting a Literature Review (50 min)	Keith Engwall
October 22, 2019	Best Practices for Writing an Abstract (90 min)	Stephanie Swanberg
November 12, 2019	Supporting your Findings with Literature – Focus on Presenting & Publishing (50 min)	Stephanie Swanberg
November 19, 2019	Supporting your Findings with Literature – Focus on Search Strategies (50 min)	Dr. Misa Mi
December 3, 2019	Supporting your Findings with Literature – Focus on Search Strategies (50 min)	Dr. Misa Mi
December 9, 2019	Supporting your Findings with Literature – Focus on Presenting & Publishing (50 min)	Stephanie Swanberg
January 16, 2020	Best Practices for Developing an Oral Presentation (90 min)	Keith Engwall
January 21, 2020	Strategies for Publishing Your Capstone Project (90 min)	Stephanie Swanberg

- *Guided Project Working Time* - Keith Engwall and Stephanie Swanberg continued to share responsibility for attending dedicated project writing sessions in the M2 Capstone course. These sessions are mandatory for students who still need an approved IRB or project proposal. The sessions give students dedicated quiet time to work and also act as office hours for them to ask questions of faculty. Library faculty assisted students with developing research questions, database selection, and formulating search strategies.
- *Oral Presentation Judging* - Nancy Bulgarelli, Stephanie Swanberg, and Dr. Misa Mi were all slated to judge M2 student oral presentations as part of the Embark 4 course. One oral presentation session successfully occurred face-to-face, but the remainder were cancelled in their original form and transitioned online with a small group of faculty judges.

Integrative Evidence-Based Medicine Course

The EBM course ran for the seventh time, April 1-10, 2020, but was transitioned completely online due to COVID-19 only two weeks before the start of the course. Due to the short notice, many Panopto recordings of 2019 sessions were used though new recordings were made for the syllabus review, *Introduction to EBM*, *Locating the Best Available Evidence*, and *Systematic Reviews and Meta-Analyses* sessions. Sessions led by library faculty are listed in Table 3:

Table 3: Information Mastery Sessions in Integrative Evidence-Based Medicine, 2019-2020

DATE	TITLE	INSTRUCTOR
April 1, 2020	Locating the Best Available Evidence Lecture (60 min recording) <i>Usual accompanying evidence lab portion of the session was moved to independent, self-directed learning</i>	Stephanie Swanberg
April 7, 2020	Systematic Reviews & Meta-Analyses (120 min recording)	Dr. Misa Mi

In addition, daily online office hours were coordinated and hosted by Stephanie Swanberg and Dr. Victoria Lucia to give students an avenue of interacting with faculty and asking questions. About 10 students over the course visited the office hours.

The usual team case assignment was changed to an individual assignment and grading of the PICO question and case presentation PPT assignments was divided equally among the six EBM instructors, including Nancy

Bulgarelli, Dr. Misa Mi, and Stephanie Swanberg who graded 20 assignments each. The *Locating the Best Available Evidence Lab* assignment was graded by the four medical librarians based on their personal librarian program groups. Given the short length of the course, grading was a challenge because of the number of assignments to be reviewed and the need to provide individualized, high quality feedback to each student. The EBM final exam was moved to June and taken remotely by students using an exam monitoring software.

Additional Curriculum Integration

Art & Practice of Medicine 1 Course

Flu Vaccine Clinic Day – On October 24, 2019, Stephanie Swanberg presented a 30-minute session as part of the annual flu vaccine clinic for the M1 students. It immediately followed the presentation on myths and facts of the flu and flu vaccine by an infectious disease physician. The session combined lecture, hands-on searching of MedlinePlus, and a role-playing activity.

Promotion & Maintenance of Health (PMH) 2 Course

Maximizing Your Literature Search: Quick & Effective Search Techniques – On January 9, 2020, Stephanie Swanberg taught a newly integrated 50-minute session in the PMH 2 course. This session was moved from PMH 3 in the Fall Semester, but was substantially revised to closely tie-in to the journal club assignments. To further thread EBM concepts throughout the curriculum, the PICO question framework was introduced into this session this year, and students were required to formulate PICO components and a question in their journal club assignments.

Journal Clubs – COVID-19 affected both PMH Journal Club sessions this year. The first one, originally scheduled on March 12, 2020, was cancelled last minute as the university suspended in-person classes just the day before. Both Nancy Bulgarelli and Stephanie Swanberg had been slated to serve as small group discussion facilitators for the March journal club. The second journal club, on April 30, was transitioned online using WebEx. Stephanie Swanberg hosted two 45-minute small discussion groups on an article about e-cigarettes with groups of 5-6 students.

Promotion & Maintenance of Health (PMH) 3 Course

Search Basics – On August 15, 2019, Stephanie Swanberg presented a 30-minute session reviewing search basics to support the students in locating a public health-related article for their narrative course assignment.

Student InfoBite Series

Now in its seventh year, the Medical Library hosted a student lunch series to supplement the content taught in the Information Mastery curriculum and introduce new concepts that are currently not taught elsewhere. Sessions continued to be held in O'Dowd Hall with lunch provided to attendees. Attendance at the three sessions this year totaled 118 students for a grand total of 1136 attendees since the series inception in 2012. Table 4 provides an outline of offered sessions.

Table 4: Student InfoBite Series Sessions, 2019-2020

DATE	TITLE	INSTRUCTOR
August 22, 2019	Exploring Online Anatomy Resources	Nancy Bulgarelli, Keith Engwall, Misa Mi, Stephanie Swanberg
October 2, 2019	Exam Prep Resources for BFCP & Organ System Courses	Misa Mi
March 4, 2020	What's New with the New PubMed	Misa Mi

The Mobile Apps Fair held in May to promote point-of-care clinical apps for rising M3s was moved online due to COVID-19 this year. A special feature in the newsletter included the recommended apps.

Faculty

New Faculty Orientations

The Medical Library introduced the School of Medicine's newest Foundational Medical Studies faculty to our resources and services this academic year and completed a total of two new faculty orientations. Faculty toured Medical Library spaces (pre-COVID-19) and website, were provided with an overview of the library's liaison program and resources available in their disciplines, and were apprised of the collaboration opportunities for courses and scholarly activities with library faculty.

Virtual Coffee Hour with a Librarian – Faculty Series

Dr. Misa Mi spearheaded the development of an online summer education series for faculty focused on online teaching and research topics. The library partnered with the Center for Excellence in Medical Education (CEME) to offer the series with the CEME handling registration, marketing, and WebEx hosting. The series began in June 2020 and was offered biweekly through the end of July. Sessions were designed to be informal to give participants the chance to ask questions and drive the discussion. Two sessions were hosted this academic year:

- **June 3, 2020: Library Resources for Online Teaching** – led by Dr. Misa Mi, Nancy Bulgarelli, and Stephanie Swanberg covering online textbooks, course/subject guides, creating proxy links for library subscribed content, and streaming videos.
- **June 17, 2020: Accessing Full Content Articles** – led by Stephanie Swanberg, Keith Engwall, and Dr. Misa Mi covering how to use the Get-It link, Interlibrary Loan, Browzine, and creating proxy links for articles.

Additional Faculty Workshops

The Medical Library hosted and/or participated in two additional workshops this year for faculty:

Practical Strategies for Searching & Organizing the Literature - On August 7, 2019, Stephanie Swanberg and Janet Zimmerman were invited for the third year by the Beaumont Geriatrics Division to give a 75-minute presentation on research searching skills for their residents and physicians. The session covered the basics of searching the literature when starting a research project with overviews of Cochrane Library, UpToDate, and detailed instruction on PubMed. A total of 6 residents and physicians attended.

Health Informatics SIG Workshop – On January 9, 2020, Stephanie Swanberg was invited by Dr. Ramin Homayouni to lead a 30-minute workshop on “Locating Existing Datasets” to the newly formed Health

Informatics Scholarly Interest Group in the Foundational Medical Studies Department. The session covered major library resources (ICPSR, PolicyMap) and online resources (data.gov, American FactFinder) for locating statistics, data, and datasets that could be used for research. A total of 7 faculty attended.

Medical Education and Assessment Interest Groups

Since April 2020, Misa Mi has been providing training, guidance, and mentoring for two OUWB faculty interest groups in designing and conducting two collaborative projects: one is a systematic review and another is a scoping review on the topic related to self-directed learning for health profession students. She not only provided comprehensive literature searches but also is responsible for data management and coaching faculty along the process of conducting the review and using the software program Covidence. She also provided peer review for a manuscript of a junior faculty member in the Assessment Interest Group.

Staff

New Staff Orientations

The Medical Library introduced the School of Medicine’s newest staff members to our resources and services this academic year with a total of four new orientations. Staff toured Medical Library spaces (pre-COVID-19) and website, were provided with an overview of the library’s resources available in their areas.

Residents

Residents as Educational Scholars (RAES) Program

The Center for Excellence in Medical Education (CEME) offered the renamed Residents as Educational Scholars program for the second year to teach Beaumont residents about developing and conducting medical education research. This year there were not enough faculty to also sponsor the Fellowship in Medical Education program with RAES. Library faculty were invited again this year to participate and taught two in-person integrated sessions with two sessions using recordings from the previous year as outlined in Table 5.

Table 5: Integration Information Mastery Sessions in the RAES Program, 2019-2020

DATE	TITLE	INSTRUCTOR
October 2, 2019	Practical Strategies for Searching & Organizing the Literature	Stephanie Swanberg Janet Zimmerman
December 4, 2019	Research Data Management	Stephanie Swanberg
January 17, 2019	Developing a Scholarly Poster & Abstract (recording)	Dr. Jeffrey Maisels Stephanie Swanberg
March 25, 2020	Disseminating Your Scholarly Work (recording from previous year due to COVID-19)	Dr. Misa Mi Stephanie Swanberg

Other Instruction

Health Literacy Workshop

Stephanie Swanberg was invited by Wayne State University's Institute of Gerontology to teach a 2-hour workshop for local nurses, social workers, and case managers on November 7, 2019, at Waltonwood Senior Living Facility in Rochester, Michigan. The session included a variety of instructional methods including lecture, videos, and interactive activities. A total of 46 local health care professionals attended.



Interprofessional Management of Prescription Opioid Abuse Workshop

Misa Mi served on the OU Interprofessional Education Task Force with members representing schools of medicine, nursing, allied health, and the social work program. She participated in planning for the 4th Annual Interprofessional Education Workshop on Management of Prescription Opioid Abuse held on Oakland Center, January 31, 2020. In addition, she was responsible for creating and managing online registration and post-workshop evaluation for the event.

Reference & Research Consultations

Patron Requests

With COVID-19 and the transition to all remote services in the months of March, April, May, and June 2020, the Medical Library saw dramatic increases in the number of patron requests, the time needed to fulfill these requests, and a greater diversity in the patrons contacting us. Overall, there was a:

- **46% increase in the total number of patron requests** with a record 949 encounters over the entire academic year
- **202% increase in the time spent by library faculty and staff** on reference, research consultations, literature searches, and our systematic review consultation service (823.50 hours this year compared to only 272.44 hours last year), excluding instruction and community engagement
- **28% increase in the total number of patrons helped** (n=2,643 this year compared to n=2,062 last year)

For more detailed information on the breakdown of these encounters see Table 6 below.

Table 6: 2019-2020 Count of Patron Requests, compared to 2018-2019			
	REQUESTS <i>(Compared to AY 18-19)</i>	PATRONS/PARTICIPANTS <i>(Compared to AY 18-19)</i>	HOURS <i>(Compared to AY 18-19)</i>
Reference	529 (359)	571 (416)	126.35 (54.31)
Research Consultations, Literature Searches, Systematic Review Service	322 (221)	491 (304)	670.15 (184.60)
Embark Project Mentoring	45 (57)	56 (63)	27 (33.53)
Instruction	41 (24)	1,269 (1130)	103.67 (83.91)
Community Engagement	12 (12)	256 (168)	35.5 (53.5)
Total	949 requests	2,643 patrons	962.67 hours

Again, with the transition to remote services, there was a significant shift in the ways that patrons contacted us with 64% via email (up from 53% last year), 19% in-person (down from 38% last year), and 9% through a virtual meeting platform (see Figure 1).

There was also a greater range of patrons contacting or participating in our activities this year with only 44% from medical students (down from 60%) this year, but double the number of requests by OUWB faculty in the Department of Foundational Medical Studies at 32.5% compared to 19% last year (see Figure 2).

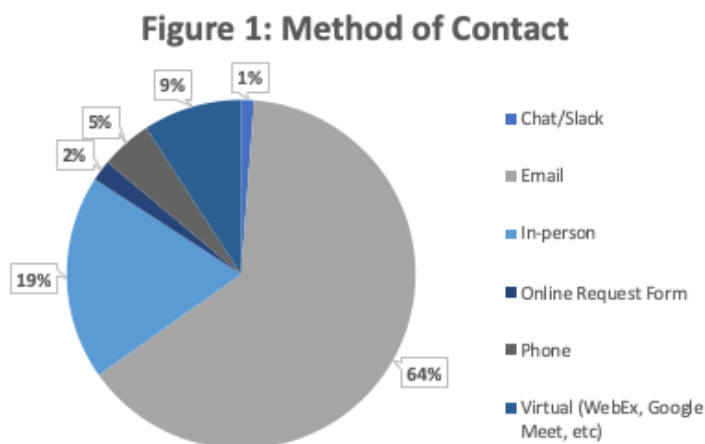
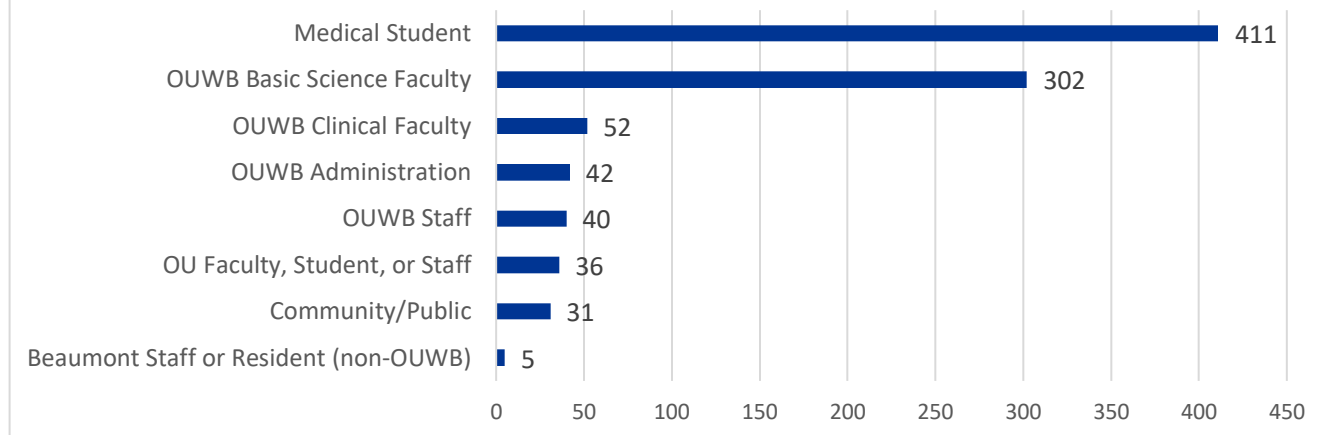


Figure 2: Status of Patron



Course & Subject Guides

With the immediate need to transition courses online, the Medical Library worked with all clerkship directors and several elective directors to develop online guides and locate online alternatives for classroom and clinical experiences (modules, videos, cases etc.,). Eight new guides were created in March and April 2020.

- [Addiction Medicine Elective](#)
- [COVID-19/Pandemics Elective](#)
- [Pediatrics Sub-Internship](#)
- [Online Teaching](#) – links to resources on how to teach online
- [Public Health Elective](#)
- [Resources for Online Teaching](#) – links to online modules, videos, tutorials, and cases that could be used as replacements for in-person instruction
- [Internal Medicine Sub-Internship](#)
- [Surgery Sub-Internship](#)

Systematic Review Consultation Service

Systematic reviews are an evidence-based research study design that systematically collects, reviews, and summarizes the literature on a topic and are extremely time intensive. Librarians play a crucial role in the systematic review process including serving as methodology experts; consulting on the research question development, inclusion/exclusion criteria, database selection, search development and searching, citation management; and even manuscript writing.

All Medical Library faculty members have been trained in the systematic review process and have been promoting systematic reviews as a type of research methodology for several years to OUWB faculty and students through Information Mastery sessions. Systematic reviews were formally integrated into the OUWB Embark research program for students as a project type in academic year 2014/2015. The Medical Library began subscribing to the Covidence systematic review software in 2018 to streamline some steps of the review process. Over the past several years, the library had been gradually receiving more requests to teach about, consult on, and participate in systematic review research teams at OUWB from both faculty and students.

As in-person research is currently suspended due to COVID-19, the number of requests for systematic reviews has dramatically increased this year, particularly in the last quarter of this academic year:

- **31 active reviews in Covidence** (see Table 7 for a breakdown of library faculty roles in these projects)
- **13% (n=116) of all reference requests this year** were related to systematic reviews, meta-analyses, or other reviews with library faculty working with 177 faculty members and students
- **53.5% (440.55 hours) of reference hours this year** have been dedicated to systematic review consultations and projects

Table 7. Systematic Review Service Requests and Ongoing Projects, 2019-2020

	No. of Projects
Faculty SR - Consultant (<i>provides guidance on process, search strategies, and citation management, but not involved as a faculty research participant</i>)	4
Faculty SR - Contributing Author (<i>provides guidance on process, conducts searches for team, manages citations, may be involved in screening/data extraction phases, aids in writing manuscript</i>)	19
Student SR - Embark Mentor (<i>serves as a formal Embark mentor or co-mentor, involved in all stages of process</i>)	14
Student SR - Embark Consultant (<i>provides guidance on initial process, search strategies, and citation management, but not a formal mentor</i>)	9
Student SR – Non-Embark Consultant (<i>provides guidance on process, search strategies, and citation management on non-Embark systematic review projects</i>)	5

Collections

Electronic Collection

Table 8 displays the number of downloads from our major resources for the year and the percentage change in usage from the previous year. A number of resources show significant declines in use from the previous year. This may be partly explained by changes in textbooks, but we will monitor this carefully over the upcoming year.

Table 8: Major Electronic Resource Downloads/Searches, 2019-2020

RESOURCE	July - September 2019	October - December 2019	January - March 2020	April - June 2020	Total	% Change from FY 18- 19
AccessMedicine	4,096	2,924	2,920	2,853	12,793	31.81%
ClinicalKey eBooks	2,623	2,093	1,667	1,895	8,278	-15.12%
ClinicalKey eJournals	3,744	7,481	4,801	2,261	18,287	-17.07%
JAMA & Archives Journal Collection <i>(Note: Includes Beaumont Hospital use)</i>	2,761	3,872	3,200	1,719	11,552	-43.58%
LWW Health Library Collection	5,126	10,799	6,464	3,675	26,064	2.48%
LWW Total Access Journal Collection & Archive	7,641	11,966	11,193	5,529	36,329	-17.40%
New England Journal of Medicine	835	1673	2497	758	5,763	-15.41%
Scopus (Searches)	2,348	1,125	1,559	1,590	6,622	.25%

*Subscription is no longer shared with Beaumont, so numbers now only reflect OU's use.

Overall, the Medical Library measured a total of 95,362 e-journal article downloads and 76,054 e-book chapter downloads. More detailed information on our usage stats can be found on Appendix 1, Appendix 2 and Appendix 3.

New Resources

The library added several new databases this year. Some were to support the move to online teaching, while others had been planned to support on-going initiatives:

- AccessOBGYN – *to support remote delivery of clinical education*
- Cabells Journal Whitelist & Journal Blacklist – *to assist users identify predatory publications*
- Clinical Cases: Teaching Cases – *to support a more interactive, case-based curriculum*
- Covidence – *upgraded license to unlimited reviews to support increased interest in systematic reviews*

We also trialed VisualDX which will be adding early in the next academic year to support a more inclusive curriculum.

Print Collection

Most of Medical Library's collection is electronic, but we do maintain multiple print copies of all the required and recommended course textbooks in the Quiet Study Room. We also have an extensive collection of print review books and study guides, and purchase print books when an electronic version is not available or when print is specifically requested by a faculty member or student. In 2019/2020, the library added 212 print books to its collection at a cost of \$14,551.03.

Based on re-shelving counts, our students appreciate and use these print materials. Over the course of the year, we recorded re-shelving a total of 1059 items. Table 9 shows a breakdown by month. The library spaces closed March 16, 2020, which is indicated in the lack of usage after March.

Table 9: Print Book Shelving Tallies, 2019-2020

Jul 19	Aug 19	Sep 19	Oct 19	Nov 19	Dec 19	Jan 19	Feb 19	Mar 20	Apr 20	May 20	Jun 20
9	64	158	224	187	167	68	129	53	0	0	0

Expenditures

\$898,839

- Total expenditures on collection

98.27%

- Percentage spent on electronic resources

\$3.21

- Average cost per article & book chapter download

Interdepartmental Loan & Document Delivery

The Interlibrary Loan Department at Kresge Library continued to provide wonderful service to OUWB faculty and students, filling the majority of requests electronically within 24 hours. Significantly, requests from OUWB faculty, staff, and students increased 52% this year. This may be partly driven by a shift in research focus and by the increased interest in systematic reviews as described earlier.

Table 10: Interlibrary Loan and Document Delivery Statistics by Patron Type

	Faculty & Staff	Students	Total
University Library ILL & Document Delivery	275	444	719
Articles Supplied by Medical Library	19	35	54

Website

Overall Usage

From July 1, 2019 to June 30, 2020, the Medical Library website had a total of 64,176 page views across 31,180 sessions for an average of 2.06 pages per session.

Sessions

31,180



Number of Sessions per User

3.15



Pageviews

64,176

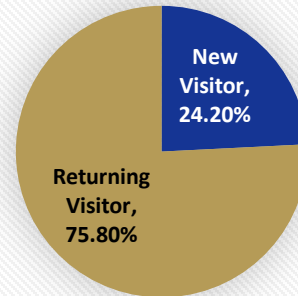


Pages / Session

2.06



Website Visitor Type



The traffic remained fairly constant throughout the year, taking a small dip during the winter break in December.




● Pageviews

10,000

5,000

... September 2019 November 2019 January 2020 March 2020 May 2020

The most heavily-used page was the Medical Library homepage, followed by Databases, M1 Textbooks, and Course Guides.

Page Title	Pageviews	% Pageviews
1. Medical Library - OU Libraries	28,501	 44.41%
2. Databases - Medical Library - OU Libraries	11,063	 17.24%
3. M1 Textbooks - Medical Library - OU Libraries	3,539	 5.51%
4. M1/M2 Guides - Medical Library - OU Libraries	3,170	 4.94%
5. MDM1 9110 - Anatomical Foundations of Clinical Practice - OU Libraries	1,506	 2.35%
6. Clerkship Textbooks - Medical Library - OU Libraries	1,388	 2.16%
7. M3/M4 Guides - Medical Library - OU Libraries	1,362	 2.12%
8. Review & USMLE Resources - OU Libraries	1,033	 1.61%
9. eBooks - Medical Library - OU Libraries	938	 1.46%
10. M2 Textbooks - Medical Library - OU Libraries	894	 1.39%

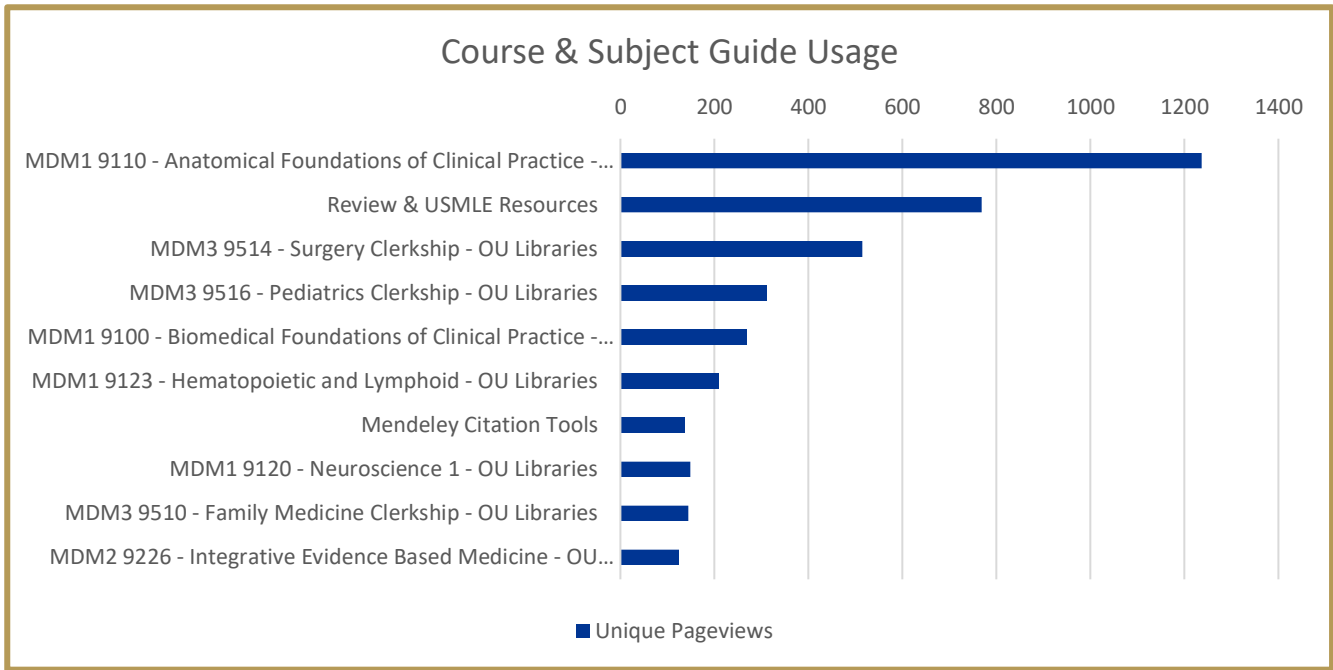
PubMed

PubMed access (through search or links) accounted for 7,327 of our total 31,180 sessions, roughly 23.50%. The PubMed homepage search box is by far the most actively used of our PubMed links.

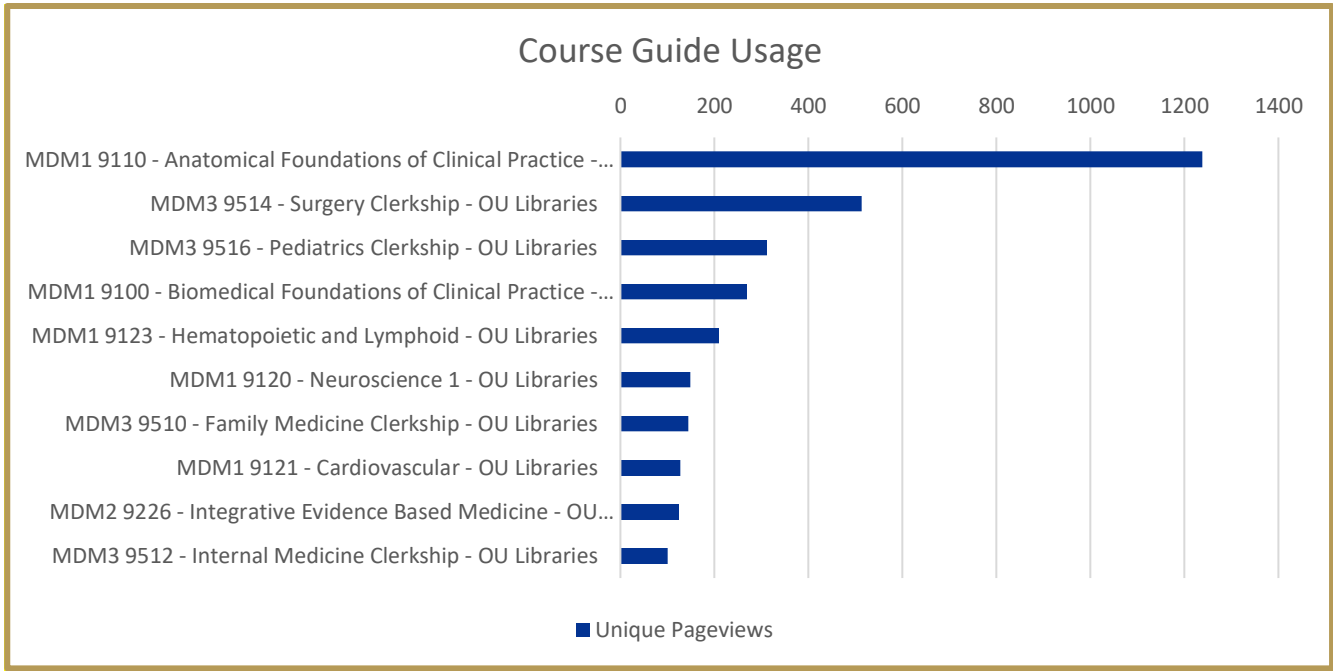
Event Label [?]	Total Events [?]	Unique Events [?]
	10,033 % of Total: 100.00% (10,033)	6,899 % of Total: 100.00% (6,899)
1. PubMed - homepage search	7,327 (73.03%)	4,870 (70.59%)
2. PubMed - subpage search	1,648 (16.43%)	1,195 (17.32%)
3. PubMed - homepage link	482 (4.80%)	408 (5.91%)
4. PubMed - articles search	390 (3.89%)	255 (3.70%)
5. PubMed - subpage link	125 (1.25%)	112 (1.62%)
6. PubMed - MeSH - homepage link	52 (0.52%)	51 (0.74%)
7. PubMed - MeSH - subpage link	9 (0.09%)	8 (0.12%)

Course & Subject Guides

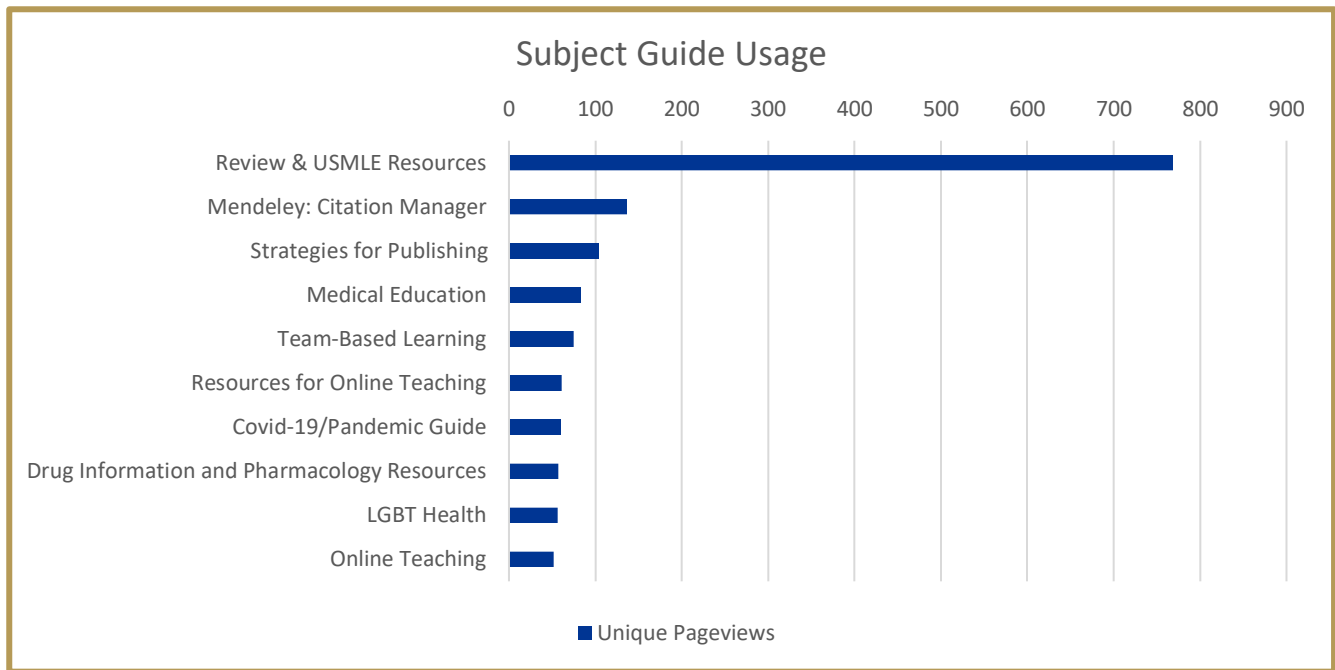
Of all our course and subject guides, “MDM1 9110 – Anatomical Foundations of Clinical Practice” was the most used guide with 1,237 unique pageviews, followed by “Review Resources” with 769 unique pageviews, and “MDM 9514 – Surgery Clerkship” with 515 unique pageviews. The Mendeley Citation Tools Subject Guide made the top-10 this year for the first time.



The break-down of our course guides shows that “MDM1 9110 – Anatomical Foundations of Clinical Practice” continues to be the most popular guide.



Of our Subject Guides, “Review & USMLE Resources” had significantly higher usage than any of our other guides.



Web Projects

The library undertook a number of projects to improve website functionality and accessibility, including:

- Incorporated OUWB branding
- Improved Responsive Design
- Created a Computers & Technology Page to showcase the Medical Library Technology offerings and added User Guides, Cyber Security tips and Medical News.
- Updated and improved the Mobile Resources page and included resources for student productivity
- Continued to audit accessibility issues and apply systemic changes in order to adhere to national standards.
- Added an FAQ page based on student questions during orientation

COVID-19 Response

The library responded quickly to the State of Michigan lock down and created many new resources and guides including:

- Remote services page
- Online Virtual Office Hours for Medical Librarians
- Guide for COVID-19/Pandemic
- Guides for Online Teaching and Resources for Online Teaching
- Virtual library tours and website tours for student orientation

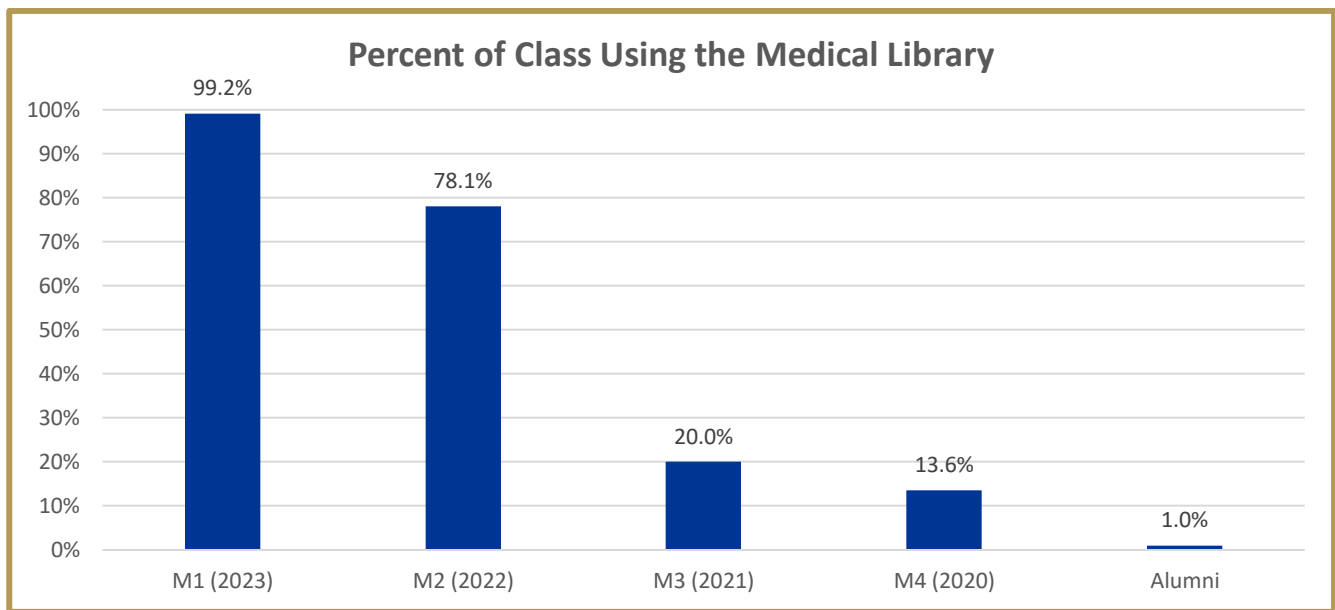
Study Spaces

The Medical Library provides spaces for individual quiet (i.e. silent) study, small group study, and larger collaborative study. Medical Library space on the OU campus is used mainly by M1 and M2 students but a small percentage of our usage is from M3 students, M4 students, and alumni. This year we added a new projection system and multifunction color printer for student use. We also completed some projects made necessary from the previous year’s flood – replacing panels on the study carrels and lounge chairs.

Physical Space

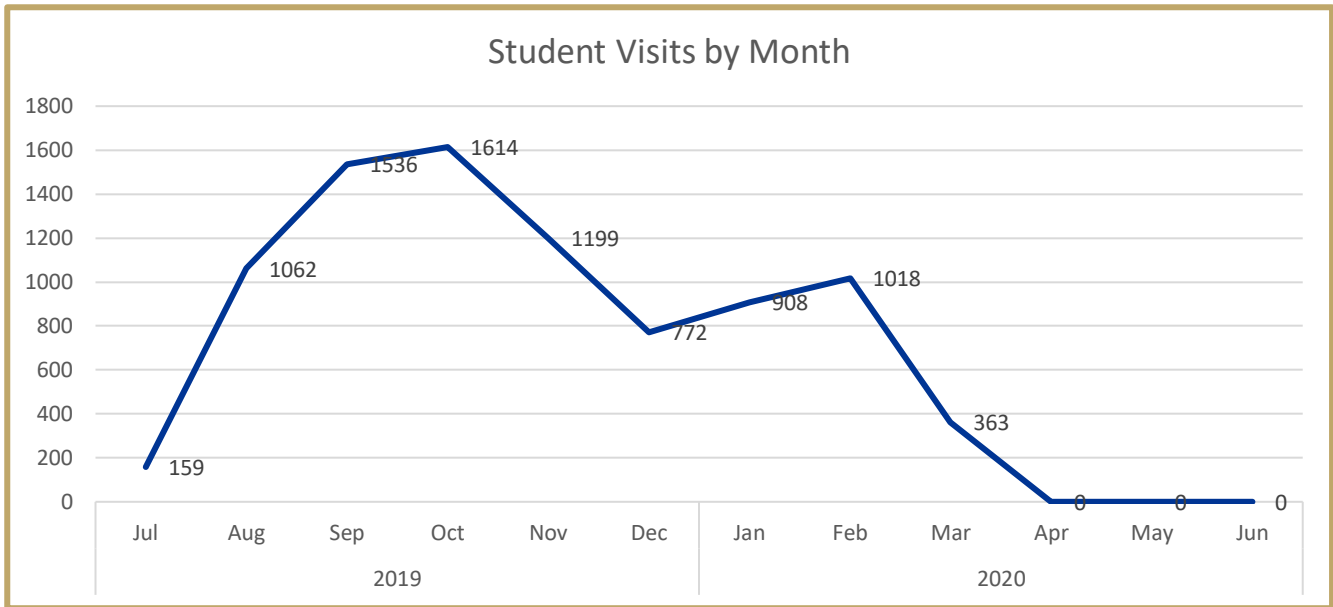
Percent Utilization by Class

These percentages are derived from the number of unique students using the Medical Library space divided by their total class size. Due to library closure, the data is skewed significantly from March through June.



Student Visits by Month

A ‘visit’ is defined as one or more card reader swipe(s) per student per day. Visits for April through June were skewed by the closure of Kresge Library due to the pandemic.

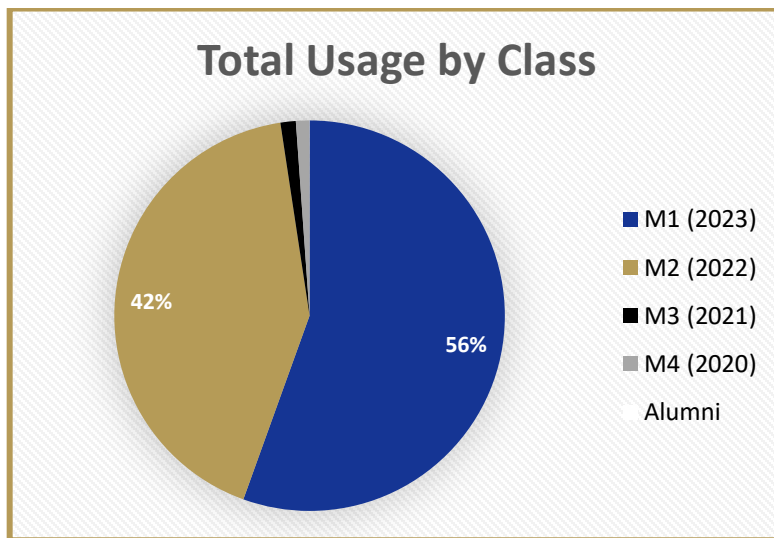


Total Visits by Class

A 'visit' is defined as one or more card reader swipe(s) per student per day.

Table 11: Total Usage by Class

Expected Graduation Year	Number of Visits
M1 (2023)	4241
M2 (2022)	3216
M3 (2021)	97
M4 (2020)	85
Alumni	1



Note that these numbers are based on badge swipes as students enter the rooms. They likely underrepresent actual use. It is quite common to see a single student use their badge to open the door for several other students when arriving in a group.

Printer Usage

In addition to using the physical space, students make heavy use of the printers in the Medical Library Study Room. Table 12 and the corresponding graph below provide an overview by month of the number of pages printed using the two printers in our space. Maintaining these printers and keeping them supplied with paper and toner takes up quite a bit of time and affects the library's supply budget. Due to the pandemic, printing stopped entirely in April and did not resume again until August.

Table 12: Pages Printed By Month

2019						2020					
Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
640	5,626	7,402	4,811	4,394	3,188	2,787	3,806	1,624	0	0	0

Community Engagement & Outreach

Events

Community Partnership with Auburn Hills Public Library (AHPL)

As part of the Medical Library's ongoing efforts to promote health information literacy in the local community, Stephanie Swanberg continued leading our health education outreach partnership with Erin Look, Youth Services Coordinator, and Gina Labban, Adult Services Librarian, at Auburn Hills Public Library (AHPL).

NNLM All of Us Public Library Partnership Grant

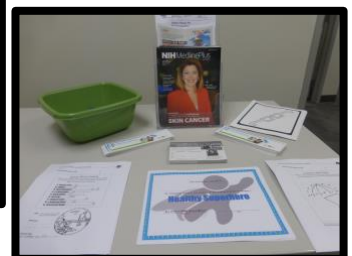
A major focus of this year's public library outreach was completing the tasks for the National Network of Libraries of Medicine (NNLM) All of Us Public Library Partnership Award from May 2019 to April 2020. The grant team was awarded \$18,071 for "Creating Ready-Made Health Education Toolkits – Expanding a Pilot Program into a Sustainable Outreach Partnership with a Public Library." Stephanie Swanberg served as PI on the grant with key personnel Nancy Bulgarelli, Erin Look (AHPL), Victoria Lucia, FMS faculty member, Rose Wedemeyer, OUWB Director of Education Training, and Emily Yuen, medical student.

The focus of the grant was to develop ready-made health education toolkits that could be used and reused by members of the OUWB community. A large portion of the grant paid for supplies for the kits as well as time spent by key personnel in developing the kits. The team developed 16 total health education toolkits and created an online education materials repository in Google Drive to share the toolkits and other health education materials. Each toolkit contains a lesson plan, supply list, and links to all digital files to carry out the session including PowerPoints, handouts, and program evaluations. As part of the grant, the team also created a short three-question survey based on emojis for a K-5 population and used a modified Teach-back Observation Tool to evaluate the communication abilities of our medical student volunteers.

Health Education Programs

In addition to carrying out the grant project, four in-person sessions were held at AHPL this year: three sessions for K-5th graders as part of the library's "It's Elementary!" STEAM series and one adult workshop on Fad Diets. Once again, we partnered with the Lifestyle Medicine Student Interest Group (LMIG) to plan and offer these events with two of the four lesson plans developed by Emily Yuen, our 2019 medical student intern as part of her OUWB Summer Internship. A total of 36 participants attended the four sessions over the year.

Safe Fun in the Sun – On September 30, 2019, this session taught 12 children about skin and skin protection from the sun in a variety of interactive activities including sunscreen facts, a sun obstacle course, and sun soccer. Many thanks to our LMIG medical student volunteers who helped develop and lead the activity



stations: Mithya Jayakumar, Tyler Shibutowski, Lucas Nelson, Ryan Rogers, and Scott Sabbagh. In addition, Nancy Bulgarelli, Victoria Lucia, and Stephanie Swanberg also piloted the program evaluation methods during this session.

Spooky Bones – On October 21, 2019, this session originally created by Emily Yuen, covered the skeletal system just in time for Halloween! AHPL Librarian Erin Look started the session with storytime followed by bone facts, measuring bones, and building your own spooky skeletons led by our medical student volunteers: Emily Yuen, Tyler Shibutowski, Anna Bruins, Lucas Nelson, Scott Sabbagh, and Elizabeth Seeley. A total of 12 children attended.



Healthy Hearts – On February

3, 2020, this session originally created by Emily Yuen, covered the cardiovascular system with 7 children participants during American Heart Month. Jessica, one of the AHPL youth services librarians, began the session with storytime of the book ‘Hear your Heart’ followed by interactive activities on the cardiovascular system led by the medical students including build your own stethoscope, identifying heart sounds, and how blood circulates through the heart. Stephanie Swanberg and Victoria Lucia served as session observers and administered the evaluation survey at the end of the session.



K-5 Program Evaluation - All children participants (n=31) over the three programs offered during this year completed the program survey. The majority of participants stated “I learned a lot” (n=25), all participants selected the super smiley face (n=31) when asked how much fun they had, and most selected they either really liked (super smiley face) or liked (smiley face) the guest teachers (n=27), which were the medical student volunteers. A print copy of the evaluation tool is included as part of each children’s program toolkit.

Adult Workshop on Fad Diets - On October 12, 2019, Virginia Uhley, PhD, nutrition faculty in the Department of Foundational Medical Studies at OUWB and registered dietician, and Stephanie Swanberg co-taught a workshop on Fad Diets and where to find reliable diet information online. A total of five adults and seniors attended the session with lots of questions.



Three planned education sessions were also cancelled due to COVID-19: an adult workshop on “Spring Cleaning Safety: Tips for Protecting You & Your Family” originally scheduled for March 21, 2020, and two children’s programs on “The Brain & the Weird Things Your Body Does” originally scheduled for March 30, 2020, and a sensory story time with the Pediatrics Interest Group originally scheduled for April 4, 2020. It is anticipated these sessions will be rescheduled and offered next year in some form.

Circulating Health Backpack Kits

In addition to in-person education activities at AHPL, five circulating health education kits were also developed this year to integrate into the library’s circulating backpack collection for families. Each backpack is themed and includes two books, an activity sheet with activity ideas and links to related library books and online resources, as



well as educational toys and games. Stephanie Swanberg, Erin Look, and Emily Yuen brainstormed several topics in Summer 2019 and five topics were selected based on the perceived interest of families who would check out the kits: 1) germs and handwashing; 2) nutrition; 3) exercise; 4) mindfulness; and 5) medical careers. The kits were assembled in December 2019 by Stephanie Swanberg and Erin Look, then cataloged and released for circulation in late February. All had been checked out at the time of the public library’s closing due to COVID-19 in March 2020 and circulation data will continue to be collected once the library starts circulating the kits again.

These outreach activities were partially funded by the NNLM All of Us Public Library Partnership Grant from the NNLM Greater Midwest Region. In addition, funding from the 2019 COMPASS Community Grant also funded supplies for the circulating backpacks.

Outreach Partnerships with OUWB Diversity & Inclusion

As part of our ongoing efforts to support the community-focused mission of OUWB, the Medical Library continued leading and participating in several impactful events in partnership with OUWB Diversity & Inclusion.

Summer Research Opportunity Program (SROP) (July 8 – August 2, 2019)

Stephanie Swanberg, Dr. Kyeorda Kemp, and Dr. Misa Mi co-lead the didactic portion of the SROP program this year. SROP is an immersive biomedical research program with senior or recently graduated high school students paired with a clinical mentor. With Dr. Kemp joining program this year, the sessions shifted from Social Determinants of Health to Research, which better aligns with the program’s mission overall. This year six students participated in SROP for five weeks with four Monday mornings reserved for the Introduction to Research course covering:

Table 13: Summer Research Opportunity Program Sessions, 2019

DATE	TITLE	INSTRUCTOR
July 8, 2019	Introduction to Research Video Research Process & Searching Basics Tour of Beaumont Medical Library	Dr. Kyeorda Kemp Dr. Misa Mi Stephanie Swanberg Akilah Wood
July 15, 2019	How to Read a Paper Advanced Literature Searching	Dr. Kyeorda Kemp Dr. Misa Mi
July 22, 2019	Organizing & Citing Sources with Mendeley How to Give a Presentation	Stephanie Swanberg
August 2, 2019	Student Presentation Day	---

Stephanie also created the syllabus and program schedule and Dr. Kemp, Dr. Mi and Stephanie provided narrative, formative feedback to each student on their individual reflections and final presentation.

8th Annual Organ & Bone Marrow Donor Registration Drive (October 15-17, 2019)

Stephanie Swanberg coordinated this event for the 8th year at OUWB as part of Michigan Libraries for Life, the statewide library initiative to increase the diversity and number of people on the organ donor registry. The library partnered again to host a

dual drive to include bone marrow donor registration in support of the National Be the Match program with two student groups – OUWB Student National



Medical Association (SNMA) and the OU Cancer Awareness Society – along with OUWB Diversity & Inclusion.

The drive was hosted over two days with 24 volunteers who spoke with 108 people, registered 13 new organ donors and 31 new bone marrow donors! This brings our eight-year grand total to registering 246 new bone marrow donors and 283 new organ donors and reaching the milestone of speaking to 2,090 people!

OUWB Hispanic Outreach Mentoring Program - Keith Engwall introduced the board game, Organ Attack! to the student leaders of this initiative. The game was then integrated as a "learnified gaming" activity on October 5, 2019, as part of a program session to teach middle schoolers about the human body.

MLK Day of Service Health Education Fair

On January 17, 2020, Stephanie Swanberg and Keith Engwall promoted easy-to-read, quality health information as part of an OUWB-sponsored community health fair at Chandler Park Academy in Harper Woods as part of the school's 2020 MLK Day of Service activities.



Future Physicians Summer Enrichment Program

Due to COVID-19, all in-person OUWB Diversity & Inclusion-sponsored summer outreach programs for 2020 were cancelled including the Future Physician Summer Enrichment Program scheduled to be held in June 2020. However, the Office of Diversity & Inclusion was interested in developing and offering an online alternative program for high school students. A planning group was formed and included Drs. James Grogan, Kyeorda

Kemp, Serena Kuang, Dr. Caryn Reed-Hendon and Tiffany Williams from Diversity & Inclusion, and Keith Engwall and Stephanie Swanberg from the Medical Library. The group held several meetings in May and June 2020 to plan a four-day Online Summer Enrichment Program. The program will take place in July 2020 and be a combination of synchronous and asynchronous sessions focusing on antibiotic resistance and biomedical research. Keith Engwall investigated online platforms for hosting the program and recommended Google Classroom. Stephanie Swanberg helped locate existing online content (videos, modules, etc) that could be linked as part of the program as well as developed the modules on biomedical research and conducting research for Day 4.

Additional Outreach Programs

Medical Library Open House (August 20, 2019)

The Medical Library hosted its 6th Annual Open House on August 20. Designed to bring people to the Medical Library spaces, it provided an opportunity for students, faculty and staff to meet and mingle in an informal setting and to introduce (or re-introduce) them to the resources available. Articles written by OUWB students were displayed, showcasing the school's scholarly activity. Approximately 100 students, faculty, and staff attended this year.

7th Annual Open Access Week (October 21-27, 2019)

In our ongoing partnership with OU Libraries, Stephanie Swanberg co-planned Open Access Week activities on OU's campus with Julia Rodriguez, Scholarly Communications Librarian at OU Libraries. Three educational events were sponsored with 25 total attendees:

- **October 21 – I Didn't Know that was Open! Locating and Using Cool Free Quality Content** - Co-taught by Julia Rodriguez, Stephanie Swanberg, and Joanna Thielen showcasing the variety of quality open content available from peer-reviewed research, data, monographs, textbooks, and images, and discussed some of the misconceptions about open access.
- **October 23 – Avoiding Unethical Publishers and Determining Journal Quality** taught by Stephanie Swanberg covering best practices for vetting open access journals before choosing where to publish and how to avoid falling prey to fake publishing and conference invitations.
- **October 25 – Increase your Research Visibility** presented by Julia Rodriguez on how to get scholarship openly available online and utilize social media and online profiles to increase research impact.

Exhibits

The Medical Library hosted two National Library of Medicine traveling exhibits this year, each of which were hosted in the Kresge Library Lobby:

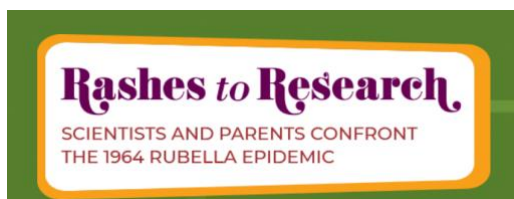
Rashes to Research: Scientists and Parents Confront the 1964 Rubella Epidemic

The Medical Library was honored to be invited by the National Library of Medicine (NLM) to participate as a pilot institution in their new *Exhibitions Connect* program, which focuses on raising awareness of free NLM online health information resources through the hosting of these traveling exhibits. As a pilot institution, we were an early host of the exhibit, [Rashes to Research: Scientists and Parents Confront the 1964 Rubella Epidemic](#), which was displayed from July 29 - September 6, 2019. The exhibit celebrated the 50th anniversary

of the first commercially viable rubella (German measles) vaccine released in June 1969. In addition to the exhibit, we featured a book cart of related books, articles, and NLM brochures celebrating the anniversary.

Politics of Yellow Fever in Alexander Hamilton's America

The Medical Library was also honored to be selected by the NLM as only one of 14 libraries to host the newest NLM exhibit in its inaugural run in 2020, "[Politics of Yellow Fever in Alexander Hamilton's America](#)" from January 3 to



February 14, 2020. This historical exhibit chronicled the 1793 yellow fever epidemic in Philadelphia with a particular focus on the power struggle between politicians, including Alexander Hamilton, and physicians like Dr. Benjamin Rush in addressing this public health crisis. At the time, the cause and treatment for yellow fever was unknown, impacting all regardless of race, ethnicity, class, or age. In just three months, it was responsible for over 5,000 deaths in the city. Who knew it would be so timely just two months later with the COVID-19 pandemic?



Marketing

Library Newsletter

The Medical Library published 10 issues of our monthly newsletter, *Medical Library News*, this past year with Stephanie Swanberg continuing as editor. The ongoing purpose of the newsletter is to reach out to OUWB faculty, students, and staff to share information about new library resources and activities; provide tips and techniques for using information tools; and to foster scholarly communication within the OUWB School of Medicine. This year's newsletter also featured a Service Tip of the Month article written by Nancy Bulgarelli, Medical Library Director. All issues are archived on the Medical Library website:

<http://medlib.oakland.edu/news/newsletter.php>

Table 14 provides an overview of the newsletter's readership from July 2019 - June 2020. Recipients of the newsletter include all OUWB students, faculty, and staff, OUWB clinical faculty, and OU Libraries faculty and staff. Our average readership level (ie: number of opens) has remained steady at 23%, the same as last year.

Table 14: Medical Library News Usage Statistics, July 2019-June 2020

Month of Newsletter	Newsletter Issue Opened (count & %)	Links Clicked within Newsletter (count & %)	Total Recipients (count)
July 2019	912 (24.2%)	145 (15.9%)	3,772
August 2019	948 (24.5%)	41 (4.3%)	3,868
September 2019	977 (24.9%)	47 (4.8%)	3,918
October 2019	911 (23.4%)	14 (1.5%)	3,897
November/December 2019	935 (24.0%)	12 (1.3%)	3,893
January 2020*	457 (70.5%)	38 (8.3%)	648
February 2020*	422 (65.5%)	14 (3.3%)	644
March 2020	<i>No newsletter this month due to high number of COVID update emails</i>		
April 2020	1144 (29.5%)	38 (3.3%)	3,878
May 2020	701 (18.1%)	53 (7.6%)	3,870
June 2020	625 (16.2%)	31 (5.0%)	3,861

**Due to temporary issues with Beaumont IT blocking OU electronic newsletters, these newsletters were not distributed to Beaumont recipients.*

Personal Librarian Program Continues

The Medical Library continued its Personal Librarian Program for the third year, adding in the incoming Class of 2023 and maintaining communications with the Classes of 2021 and 2022 with which the program was launched. The program is designed to provide individualized service and instruction to medical students. Each M1 student was partnered with a library faculty member—their “personal librarian”—who will remain their primary library contact throughout their medical school career. The main goals of the program are to:

- Support students’ self-directed and independent learning activities
- Support the Embark curriculum and Capstone projects, as well as other student research projects
- Assist with PubMed and other database searches
- Provide one-on-one instruction in the efficient and effective use of information resources

As part of the program, library faculty have established regular office hours that students can take advantage of by scheduling research consultations through the Google Calendar appointment feature. There is also a new webpage on the Medical Library Website where students can submit their email address and receive a reminder email containing contact information for their personal librarian.

Other Initiatives & Activities

OU Libraries' Research Forum Series

Stephanie Swanberg partnered with Joanna Thielen, Research Data Librarian at OU Libraries, and Emily Spunaugle, Humanities Librarian at OU Libraries, to continue the intramural research forum series for all library faculty and staff again this year. Held monthly from September 2019 – February 2020 on the 3rd Friday of each month, a total of seven 30-minute or 1-hour presentations from library faculty were given on current or completed research projects. The series allows for the discussion of ideas, challenges, successes, and lessons learned in a safe environment and provided a venue for colleagues support and encouragement. In addition, Kresge Library Journal Club was reintroduced this year for faculty and integrated with the Research Forum Series. Two journal clubs were offered in October and December 2019 on the 2nd Thursday of the month. All March and April sessions were cancelled due to COVID-19. An article about the program was recently published in *Journal of Libraries and Scholarly Communications*.

De-Stress Events

This year the Medical Library participated in the De-Stress events offered by Kresge Library and OUWB's Center for Student Services. Medical Students enjoyed coffee in the Collaborative Study Room in the evenings and worked puzzles and colored as a break from studying. More fun, Margie Suchyta worked with Matthew Switlik, from eLIS, who helped us host a Virtual Reality Retreat on December 10, 2019. Students registered to use Oculus Quest headsets provided by eLIS and play Beat Saber.

Open Access Grant Program

The Open Access Grant Program was well-used by the faculty in the Department of Foundational Medical Studies this year. The program, which is coordinated by Dr. Misa Mi, received 9 applications and awarded 5 grants this year. Grant criteria are: one grant per faculty member, the faculty member must be first or corresponding author, and the journal must be included in one of the major biomedical indexes – e.g. PubMed, Scopus, Web of Science. The three goals of this program are to provide additional venues for faculty publication, enhance the visibility of faculty research, and promote OA journals as an alternative publication model.

Table 15: Open Access Grant Program, 2019-2020

FACULTY	TITLE	PUBLICATION	PUBLICATION FEE
Thomas Ferrari	Willis R, Ferrari. The relationship between self-esteem and personality types in medical students.	IJME. International Journal of Medical Education	\$ 952.88
Inaya Hajj-Hussein	Dimagno AN, Hajj-Hussein I, Othmani AE, et al. Chronic kidney disease impact on total joint arthroplasty outcomes: a national inpatient sample-based study.	Journal of Orthopaedic Surgery	\$2,000.00
Sarah Lerchenfeldt	Lerchenfeldt S, Mi M, Eng M. The utilization of peer feedback during collaborative learning in undergraduate medical education: a systematic review.	BMC Medical Education	\$2,145.00

Gustavo Patino	Hydrocephalus as the presenting symptom of sarcoidosis: a case report and review of the literature.	Clinical Case Reports	\$1,100.00
Tracy Taylor	Brockman RM. Taylor JM, Segars LW, Selke V, Taylor TAH. Student perceptions of online and in-person microbiology laboratory experiences in undergraduate medical education.	Medical Education Online	\$1,950.00

OUSB Publications List

This ongoing project recognizes the School of Medicine’s scholarly activity by tracking the journal articles, meeting abstracts, book chapters, books and other works written by OUSB faculty, students, and staff. Reports are created by searching the institutional affiliation fields in PubMed, Scopus, Web of Science, EMBase, Google Scholar, and Google books. In addition, some highly prolific authors are searched by name. Members of the faculty are also asked to submit difficult-to-locate items such as books and book chapters for inclusion. Citations are downloaded to an EndNote database and enhanced with information about the authors’ OUSB departments and status. The citations of these works are used in five reports throughout the year.

Each quarter, the Medical Library circulates a report of citations that were located with the above-mentioned process. The quarterly reports for the 2019 academic year identified 719 unique citations. Of those, 158 were by student authors.

Once a year the library also produces an annual (based on the calendar year) compilation of all faculty publications. In an attempt to make this report as comprehensive as possible, we compare all the citations collected over the year with those identified in the Beaumont Research Institute’s yearly report, and include any that our automated process overlooked. There is a breakdown of the citations identified for 2019 located in Appendix 4. This breakdown includes publication totals by department as well as publication type.

All quarterly and annual publication reports are posted on the Medical Library’s web site at https://medlib.oakland.edu/about/publication_lists.php.

Authors at Oakland

The Medical Library also facilitated the submission of OUSB publications for Kresge Library’s annual event highlighting the university’s scholarly contributions. This year’s event, *Authors at Oakland: A Celebration of the Book*, was scheduled to be held on March 11th, 2020, but was cancelled due to the COVID-19 pandemic. OUSB Faculty contributed 46 books and book chapters to the event bibliography.

Scholarly Activities

Publications

Peer Reviewed Articles

Lerchenfeldt S, **Mi M**, Eng M. The utilization of peer feedback during collaborative learning in undergraduate medical education: a systematic review. *BMC Medical Education*; 2019; 19(1): <https://doi.org/10.1186/s12909-019-1755-z>

Swanberg SM, Thielen J, **Bulgarelli N**. Faculty knowledge and attitudes regarding predatory open access journals: a needs assessment study. *Journal of the Medical Library Association*. 2020;108(2):208-218.

Thielen J, Spunuagle E, **Swanberg S**. Creating and Sustaining an Intra-library Venue to Share Library Faculty Research. *Journal of Libraries and Scholarly Communication*. 2020;8(1):eP2332 doi.org/10.7710/2162-3309.2332

Editor Reviewed Publications

Engwall K, Roe M. Git and GitLab in Library Website Change Management Workflows. *Code4Lib Journal*. 20220; 48. <https://journal.code4lib.org/articles/15250>

Book & Resource Reviews

Swanberg SM. Q & A Health Guides – Obesity: Your Questions Answered. *Choice: Current Reviews for Academic Libraries*. 2019;56(12).

Swanberg SM. Salem Health: Women’s Health. *Choice: Current Reviews for Academic Libraries*. 2020;57(10).

Scholarships, Grants & Awards

OU Women & Philanthropy Grant (\$7500) – Stephanie Swanberg along with Dr. Kyeorda Kemp, Dr. James Grogan, and Dr. Caryn Reed-Hendon received this internal grant for “Inspiring Careers in Medicine: Elevating the OUWB Pipeline Program to Support Underrepresented Youth.” The funding was intended to be used to pay for daily transportation for attendees of the Future Physicians Summer Enrichment Program. However, due to COVID, the program was cancelled and funding period will be moved to 2021.

OU Student Affairs & Diversity Event Funding (\$500) – Stephanie Swanberg received this award to sponsor a film screening and discussion of the documentary “We Exist Beyond the Binary.” The event was scheduled to take place on April 7, 2020 as part of the greater OU Pride Month 2020 events and co-sponsored by OUWB Diversity & Inclusion and the OUWB Queers & Allies Student Interest Group. However, the screening was cancelled due to COVID-19 and it is anticipated it will be rescheduled for 2021.

Embark Mentee Award - Christos Sarantopoulos, M3 student and Embark mentee of Stephanie Swanberg, was awarded the 2020 Ravitz Foundation Embark Program Competitive Scholarship for his mini-manuscript entitled “The Role of Human Macrophage Histone Deacetylase Proteins in Inflammation and Disease: A Systematic Review” based on his Embark project.

Michigan Health Science Libraries Association Lifetime Achievement Award – Awarded to Nancy Bulgarelli at the MHSLA Annual Meeting in Traverse City on October 4, 2019.

Presentations

Invited Speaker

Swanberg S, Bowen J, Gardner D, Ladiski L, Look H, Platts B, Renirie R, Sender J. Establishing a Professional Partnership between State Library Organizations. Michigan Health Sciences Libraries Association Annual Meeting, Lansing, MI, October 2019 [State]

Conference Attendance, Faculty Development, & Continuing Education Activities

- Nancy Bulgarelli, Keith Engwall, and Stephanie Swanberg attended the Michigan Health Sciences Libraries Association Conference in Lansing, Michigan, October 3 – 4, 2019

Cancelled or Postponed Due to the Pandemic

Oral Presentations, Workshops & Panels

Lucia V, Wedemeyer R, Bulgarelli N, Yuen E, **Swanberg S**. Interprofessional Collaboration for Successful Community Engagement: Scaling Up to Serve the Local Community (90-minute focus session). International Association of Medical Science Educators Conference, Denver, CO, June 2020 (accepted; cancelled due to COVID-19) [National]

Menard L, Schmillen H, Houk K, Blevins A, **Swanberg S**. Journal to the Outer Limits of Evidence-Based Instruction. Medical Library Association Annual Meeting, Portland, OR (originally scheduled May 2020; rescheduled as virtual conference for August 2020; course was cancelled because it did not fit into the new conference schedule) [National]

Mi M, Wu L, Zhang Y, Wu W. Arts, Humanities, and Social Sciences in Undergraduate Medical Education: A Scoping Review. (peer-reviewed paper presentation). Medical Library Association Annual Meeting, Portland, OR (originally scheduled May 2020; rescheduled as virtual conference for August 2020) [National]

Mi M, Wu L, Zhang Y, Wu W. Technology-Assisted Systematic Reviewing: Collaboration and Experiences of Health Sciences Librarians from Multi-Institutions. Medical Library Association Annual Meeting, Portland, OR (originally scheduled May 2020; rescheduled as virtual conference for August 2020) [National]

Peer-Reviewed Posters

Roach VA, **Mi M**, Mussell J, Van Nuland S, Lufler RS, DeVeau K, Dunham SM, Husmann P, Herriot H, Edwards D, Doubleday AF, Wilson BM, Wilson AB. A Systematic Review of Spatial Ability and Anatomy Performance: It's Time for a Meta-Analysis. Experimental Biology 2020. San Diego, CA. April 4-7, 2020 (accepted, conference cancelled) [National]

Swanberg SM, Look E, Jayakumar M, Shubitowski T, Yuen EW, **Bulgarelli N**, Wedemeyer R, Lucia V. Partnership for Success: Developing a Health Education Outreach Program with a Local Public Library. Medical Library Association Annual Meeting, Portland, OR (originally scheduled May 2020; rescheduled as virtual conference for August 2020) [National]

Conference Attendance

- Nancy Bulgarelli, Misa Mi, and Stephanie Swanberg were slated to attend the Medical Library Association Meeting in May 2020. The conference was postponed and transitioned to an all virtual conference which will be held in August 2020.

- Nancy Bulgarelli and Stephanie Swanberg were slated to attend the International Association of Medical Science Educators Conference in Denver, Colorado. The meeting was transitioned to a shortened virtual conference in June that they elected to not attend.

Appendix 1

2019/2020 Top Accessed Journals

	Journal Title	Downloads
1	JAMA	6239
2	New England Journal of Medicine	5763
3	Medicine & Science in Sports & Exercise	3088
4	Science	2614
5	AJN, American Journal of Nursing	1534
6	Academic Medicine	1282
7	JAMA Internal Medicine	1178
8	Nursing	1166
9	Annals of Internal Medicine	1151
10	Journal of Nursing Administration	1031
11	American Journal of Surgical Pathology	991
12	Journal of Strength & Conditioning Research	941
13	Holistic Nursing Practice	934
14	JAMA Pediatrics	895
15	Journal of the American Academy of Child & Adolescent Psychiatry	865
16	Modern Pathology	806
17	Cell	754
18	JAMA Psychiatry	732
19	Journal of Nursing Care Quality	703
20	Medical Teacher	677
21	Nursing Management	672
22	BMJ : British Medical Journal - Academic Ed	645
24	Anatomical Sciences Education	608
25	MCN, American Journal of Maternal Child Nursing	569

Several of the top journals listed here are nursing journals. This is because we subscribe to publisher packages that include journals within a variety of health sciences fields. In this way our collections benefit not only the School of Medicine, but the Oakland University campus as a whole. OUWB, in turn, benefits from journal packages purchased by Kresge library. Some of the top medical Journals that Kresge subscribes to through its packages include such titles as *Journal of Nursing Administration*, *Journal of the American Academy of Child & Adolescent Psychiatry*, *MCN*, and the *Journal of Strength & Conditioning Research*. This reciprocal relationship allows us to provide the best selection of resources possible to our students.

Appendix 2

2019/2020 Top Accessed eBooks

Journal Title	Downloads
1 Marks' Basic Medical Biochemistry: A Clinical Approach 5e	5799
2 Clinically Oriented Anatomy 8e	3299
3 Case Files: Family Medicine 4th ed.	3091
4 Beckmann and Ling's Obstetrics and Gynecology 8e	3018
5 Behavioral Science 7e	2874
6 Case Files: Emergency Medicine, 4e	2134
7 Grant's Dissector 16e	2068
8 Current Medical Diagnosis and Treatment	1838
9 Case Files: Neurology 3e	1550
10 Case Files: Ob/Gyn 5th ed.	1515
11 Harrison's Principles of Internal Medicine	1373
12 Anesthesiologist's Manual of Surgical Procedures	1344
13 Pharmacology for the Physical Therapist	1341
14 Stoelting's Anesthesia and Co-Existing Disease (Seventh Edition)	997
15 American Psychiatric Publishing Textbook of Suicide Assessment and Management	984
16 Surgical Recall 8e	955
17 Zollinger's Atlas of Surgical Operations, 10e	929
18 Bates' Guide to Physical Examination and History Taking 12e	871
19 Pulmonary Physiology	809
20 Case Files: Internal Medicine 5e	806
21 Case Files: Pediatrics 5e	761
22 Langman's Medical Embryology 14e	666
23 Blueprints Neurology 4e	597
24 Morgan & Mikhail's Clinical Anesthesiology	589
25 Diagnosaurus®	578

Appendix 3

2019/2020 Resources Stats

Database	Measurement	Total Usage
Access Anesthesiology	Downloads	3,012
Access Medicine	Downloads	12,793
Access Medicine HemOnc Collection	Downloads	374
Access Neurology	Downloads	1,202
Access Pediatrics	Downloads	522
Access Physiotherapy	Downloads	2,265
Access Surgery	Downloads	2,285
Acland's	Downloads	18,332
Allen Press	Downloads	34
American Thoracic Society	Downloads	352
Annals of Internal Medicine	Downloads	1,151
Annual Review	Downloads	355
Bates Visual Guide	Downloads	2,298
Board Vitals	Searches	229,365
BrowZine	Sessions	10,691
Case File Collection	Downloads	10,802
Clinical Key (Books)	Downloads	8,278
Clinical Key (Journals)	Downloads	18,287
Cochrane	Downloads	527
Dynamed Plus	Searches	1581
Exam Master	Logins	527
Gender Watch	Downloads	2,203
Highwire Press	Downloads	1,902
Jama Network	Downloads	10,419
Jama Network Archives	Downloads	1,133
Jama Evidence	Downloads	835
Journal of Clinical Ethics	Downloads	20
LWW Health Library	Downloads	26,064
LWW Total Access Collection (Books)	Downloads	2,444
LWW Total Access Collection (Journals)	Downloads	34,724
LWW Total Access Collection Archive (Journals)	Downloads	1,605
McGraw-Hill eBook Library	Downloads	572
Nature	Downloads	1,588
New England Journal of Medicine	Downloads	5,673
OMMBID	Searches	8
OVID - Northern Lights	Searches	152
OVID - Health & Psychosocial Instruments	Searches	283

Oxford Press	Downloads	24
Psychiatry Online (Books)	Downloads	721
Psychiatry Online (Journals)	Downloads	1127
R2 Library	Downloads	1425
Sage	Downloads	103
Science	Downloads	2,924
Science Direct eJournals	Downloads	739
Science Direct eBooks	Downloads	706
Scopus	Searches	6,622
Springer Link	Downloads	282
Stat!Ref	Downloads	771
Taylor & Francis	Downloads	1,510
Thieme (Books)	Downloads	950
Thieme (Journals)	Downloads	21
USMLE Easy	Logins	1,954
Wiley	Downloads	780

Appendix 4

OUWB Publications Summary by Department 2019

Department	Total Citations	Articles in Peer-Reviewed Journals	Books & Book Chapters	MedEd Portal	Meeting Abstracts	Misc.*
Administration	3	3				
Department of Anesthesiology	8	6			1	1
Department of Diagnostic Radiology and Molecular Imaging	16	11			4	1
Department of Emergency Medicine	42	28		1	12	1
Department of Faculty Affairs	1	1				
Department of Family Medicine and Community Health	7	6			1	
Department of Foundational Medical Studies (BH)	4	2			1	1
Department of Foundational Medical Studies (OU)	49	25	15	1	4	4
Department of Internal Medicine	173	90	4		60	19
Department of Medical Education	8	8				
Department of Neurology	6	4			1	1
Department of Neurosurgery	7	4	1			2
Department of Obstetrics and Gynecology	28	17			10	1
Department of Ophthalmology	51	34	4		6	7
Department of Orthopedic Surgery	37	33	1		1	2
Department of Pathology	34	22			8	4
Department of Pediatrics	29	22			7	2
Department of Physical Medicine and Rehabilitation	9	5				4
Department of Psychiatry						
Department of Radiation Oncology	121	49			70	2
Department of Surgery	61	35			20	6
Department of Urology	40	21			14	5
Medical Library	1					1
OUWB Medical Student Author	158	97		1	45	15
(Taking into account multi-authored publications) Total	719	428	25	2	197	67

* Miscellaneous items include editorials, letters, non-peer reviewed articles, etc...

Please note this is still preliminary data. We are waiting for the Beaumont Research Institute to issue their annual report in order to add any citations that may have been missed through our automated search process. The BRI uses a self-reporting process to compile their report.