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Becker Medical Library Annual Report 2017

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Fiscal Year 2017 Annual Report
Introduction

February 16, 2018

For Fiscal Year 2017 we are publishing an abbreviated version of Bernard Becker Medical Library's Annual Report due to the publication of our **Foundations for the Future** report.

A lot happened in Becker Library in FY2017 and this report provides a high-level accounting of the most significant activities and accomplishments. Notable among these are:

- Reconciliation of the records for the 6,500 boxes of bound journals in off-site storage
- Pilot and evaluation of Get It Now as a possible mechanism to reduce collection expenses and provide better access to un-owned articles
- Development and delivery of a national course, *Designing Search Strategies for Systematic Reviews: A Hands-On Course*, that was attended by 18 librarians from across the United States
- Development and delivery of a workshop series introducing the basics of research computing, attended by more than 200 faculty, staff and students
- Facilitation of the University's first Communicating Science Symposium, featuring instructors from the Alan Alda Center for Communicating Science
- Installation of a permanent display commemorating the work of Carl and Gerty Cori, and displaying their Nobel prize medals
- Acquisition of a new rare book collection in Otolaryngology donated by Richard Chole, MD
- Grand re-opening of the Glaser Gallery with an inaugural exhibit, *Books and Bodies: 500 Years of Printing Medical Texts*, and Historia Medica Lecture delivered by our rare book librarian

Paul Schoening, MS, MBA
Associate Dean and Director, Bernard Becker Medical Library

Fiscal Year 2017 Annual Report
Archives and Rare Books

Archives and Rare Books Usage Statistics

Aeon went live in September 2016, so these data represent approximately 9 months.

Total number of items requested by users: **1,038**

Total number of images and manuscripts requested by users: **843**

Unique users making requests: **151**

- 8 unclassified
- 10 WU faculty members
- 44 independent researchers
- 39 other
- 41 WU staff members
- 9 students

Unique items used: **869**

- 160 images
- 597 manuscripts
- 105 monographs
- 7 other

Glaser Gallery Exhibits

- Skill, tenderly applied, works wonders: A History of The Jewish Hospital of St. Louis (06/05/2017)
- Books and Bodies: 500 Years of Printing Medical Texts (02/16/2017)
- Legacy of Achievement: Washington University School of Dental Medicine (09/16/2016)

Historia Medica Lectures

See Appendix D.

Permanent Display or Exhibits Installed

- Antique Microscope installation in CfHOM (12/06/2016)
- Cori Nobel Prize exhibit (12/13/2016)

Significant Archival Accessions

- Oral history recording of James D. Miller, retired Head of Research for the Central Institute for the Deaf (CID) inteviewed by Rosalie Uchanski, Assistant Professor or Otolaryngology (10/07/2016)
- Wes Clark Papers donation (07/08/2016), and hiring of Wes Clark Papers Project Archivist (05/22/2017)

Events and Projects

- The Next Century Photovoice Project (07/06/2016)
- Aeon Implementation (September 2016)
- Annual Display of Rare Anatomical Texts (12/01/2016)
- Glaser Gallery Grand Re-Opening (02/16/2017)
- Travel Scholarship for BBML's Archives and Rare Books (02/01/2017)
- Acquisition of Richard Chole Collection in Otolaryngology

Classes with Center for History of Medicine

- Introduction to the History of Medicine (09/21/2016, 09/29/2016, 10/06/2016, 10/28/2016)
- Major Epidemics in the History of Medicine (01/04/2017, 01/11/2017, 01/18/2017, 02/16/2016)
- Medical Discovery and Progress from War (04/05/25017, 04/12/2017, 04/19/2017, 04/26/2017)

Fiscal Year 2017 Annual Report
Collection Management Services

Significant Accomplishments

1. Near the end of Fiscal Year 2016, Becker Library packed and stored nearly its entire collection of bound journals – 112,102 volumes packed into 6,321 boxes. During FY2017 the collection management services group reconciled the 3,859 packing sheets with warehouse box numbers and added the box locations to the library catalog so that patrons will know when a journal is off site. Forty-one (41) boxes remain unidentified.
2. In preparation for moving the bound journal collection to permanent off-site storage the collection management services group analyzed the holdings of Washington University's Olin Library and Saint Louis University's library to determine the amount of duplication among the collections.

   Overlap with Olin Library: 257 titles (>10,000 volumes) fully duplicated, 130 publications with nearly the same coverage.

   Overlap with Saint Louis University library: 142 titles (3%) are fully duplicated, 1,298 titles (27%) are partial duplicates, and 3,413 titles (70%) have no match.

   This information will be used to reduce the number of volumes that Becker Library ultimately moves to permanent storage.
3. As part of an effort to better manage journal subscription costs, Becker Library undertook a pilot project to evaluate Copyright Clearance Center's Get It Now service. This service effectively offers rapid article retrieval from journals outside of the library's holdings, offering a mechanism by which Becker Library could reduce its subscription expenditures for seldom used titles. While the Get It Now service is much like a traditional interlibrary loan service, it promised faster turnarounds on article requests, but at a significantly higher cost.

   The initial pilot of Get It Now began in May 2017 and was configured as an unmediated model – meaning that patrons would request articles directly from Get It Now, bypassing the library's interlibrary loan department, and the library would pay the associated fee. In the last two months of fiscal year 2017, 144 requests were filled through Get It Now at an average cost of $34 per article, for a total expenditure of $4,914. Fulfillment time ranged from a minimum of 1 minute to a maximum of 47 hours and 15 minutes, with a median time of 1 minute but an average time of 55 minutes. In comparison, the average article cost for articles obtained through traditional interlibrary loan is $9.30, with an average fill time of 5 days, and a median fill time of 2 days.

Fiscal Year 2017 Annual Report
Health Information Services

Significant Accomplishments

Through its partnership with Medical Student Education, Becker librarians continue to provide instruction to students on finding, critically reviewing, and managing the literature resources needed for evidence-based decision making. FY2017 saw updates to the Evidence Based Medicine Overview and self-directed learning session within the Practice of Medicine I course. They used both a participatory lecture with an actual patient clinical scenario and small group exercise. For a Practice of Medicine II EBM session, librarians provided personalized feedback to students on their search strategies in preparation for a small group EBM presentation.

For several years, Becker Library has provided a comprehensive systematic review service to the Washington University community where librarians have been included as co-authors for many published reviews. In April 2017, Becker Library launched a new course to help share their knowledge and experience with other librarians. The pilot, "Designing Search Strategies for Systematic Reviews: A Hands-On Course," was attended by eighteen librarians from around the country. Participants could earn 13.5 continuing education credits from the Medical Library Association for attending. During the 2-day course participants worked on building and executing a complex systematic review search strategy. The course emphasized hands-on activities, group work, and active learning. Pre/Post test data demonstrated that participants were more knowledgeable about systematic review best practices after completing the course, and most reported feeling more confident in their ability to create search strategies and manage systematic reviews. Overall feedback from participants was very positive with one noting "I am extremely thankful for this course and it included some of the most relevant info I've ever gotten out of a continuing education course." Due to the success of the pilot course Becker librarians will offer the course on a yearly basis.

Becker Library's participation in clinical rounds with physician teams increased 43% during the fiscal year. Librarians actively participated in 45 teaching rounds on inpatient units at Barnes-Jewish Hospital and Children's Hospital totaling 94 hours with 35 patient care inquires completed.

Becker Library acquired two new clinical resources for its community of users – *Read,* by QxMD, allows easy mobile access to favorite journals, and *5-Minute Clinical Consult*, is a point-of-care resource. It also conducted new product trials and user-surveys for the clinical-decision tools VisualDx and DynaMed. The DynaMed evaluation was done as part of a comparison with UpToDate in support of a BJC and Washington University School of Medicine joint effort to adopt a common core clinical decision support tool across both institutions. The comparison considered content comprehensiveness, ease of use, evidence grading, and other features. Based on physician survey comments, the stakeholder committee of physicians selected UpToDate resulting in a system-wide license agreement for access.

Becker Library's Associate Director of Health Information Services participated on a Washington University team traveling to Mekelle University, College of Health Sciences in Ethiopia to take part in a joint medical education program. The long-term goal is to establish a closer partnership with Mekelle University's medical library to provide resources and training for a new Mekelle & Washington University Global Health Institute Library.

Becker Library continued to actively support the school's mission to promote the value of inclusiveness and diversity. During fiscal year 2017 Becker Library was involved in the following:

- Saturday Scholars program which provides a forum for high school students from sixteen St. Louis public schools to learn about human anatomy both in lecture and lab environment while interacting with Washington University medical students
- Genome Institute 10th Annual National DNA Day Ambassador Program held at Pershing Elementary School, University City; the program's mission is to excite children about science, leading them to possible STEM careers
- Annual Health Professions Fair which introduces St. Louis high school students to health-related careers, including health sciences librarianship
- Division of Biology and Biomedical Sciences and the Office of Medical Student Research to develop the annual traveling poster series highlighting notable African Americans in science and technology

In fiscal year 2017, information services staff from Becker Library provided search expertise for 69 systematic reviews, performed 447 literature searches, answered 1893 reference questions and 1687 general questions, and offered 113 EndNote training sessions.

Fiscal Year 2017 Annual Report
Translational Research Support

Science Support

- **Introduction to Research Computing Workshops**
  In partnership with the Center for High-Performance Computing, Becker Library support scientists offered a hands-on series of workshops aimed at introducing the basics of research computing to faculty, staff, and students new to command line interfaces and the cluster computing resources available on campus. The three-part series was offered in the fall and spring of the past academic year and in the summer of 2017. The sessions were extremely popular with over 200 total attendees. Based on the popularity of the series and feedback from participants additional workshops on special topics including Python and R programming will be added for FY18.

- **Genomics in Medicine Lecture Series**
  For the fifth year, the library partnered with the Departments of Medicine, Genetics, Pediatrics, and Pathology & Immunology to host and coordinate a weekly series of lectures designed to give clinicians, fellows, and postdoctoral scholars a practical background in molecular biology, an introduction to genomic research and applications of genomic technologies as it relates to the clinical environment. There were approximately 880 attendees at the 26 lectures given by WUSM faculty experts during the fall and spring of FY17 and 8 graduate students enrolled in the series for academic credit.

- **Software Licensing Programs for Researchers**
  Subscriptions by labs and individual researchers to software licensed and administered by the library continued to grow. There were 789 active campus subscribers at the end of FY17 representing a 60% increase from the previous year. The large increase is almost exclusively the result of the growing popularity in GraphPad Prism

  - GraphPad Prism – approximately 1,000 licensed computers
  - Partek Genomics Suite – 18 labs
  - Lasergene Core Suite – 68 labs
  - SnapGene – approximately 50 licensed computers
  - PyMOL – 47 labs
  - GeneGo Metacore – 24 individual investigators
  - Ingenuity Pathway Analysis - 6 labs
  - Partek Flow – 4 labs
  - Spotfire with OMICSOffice - 1 lab

- **Software Demonstrations and Learning Workshops**
  The library continued to host free presentations and workshops in support of our site licensed research software tools. During the past year, trainers from Partek, IPA, and MATLAB provided onsite instruction to over 170 research faculty, staff, and students.

- **Collaboration with Campus Research Groups**
  - **Galaxy**
    The library continues to work with the Center for High Performance Computing to maintain and enhance a local installation on the CHPC cluster of Galaxy, a web-based bioinformatics

analysis tool that allows biologists without a programming background to perform data intensive analyses. At the end of FY17, 35 researchers have generated Galaxy accounts to use this resource.

- o **Partek Flow**
  The library also partners with CHPC to host and support an installation of Partek Flow, a web-based software application designed specifically for the analysis of next generation sequencing data including RNA, small RNA, and DNA sequencing data.

- o **Epigenome Day 2016**
  Becker Library support scientists partnered with faculty from the Department of Genetics to host a full day of seminars and workshops, highlighting epigenomic resources generated by large consortia including the ENCODE and Roadmap Epigenomics projects. Over 330 campus researchers, staff, and students attended the event.

- o **Kyoto Encyclopedia of Genes and Genomes (KEGG)**
  The library continued its partnership with the Center for Genome Sciences & Systems Biology and the McDonnell Genome Institute to host and manage a local mirror of this popular resource for understanding high-level functions and utilities of the biological system. During the past year, approximately 475 users on both campuses accessed the KEGG database.

Scholarly Communications and Author Support

- **Digital Commons@Becker**
  Since 2010, Becker Library has supported the dissemination and promotion of the medical school's research efforts and scholarly works through its digital repository, Digital Commons@Becker. Notable additions and milestones during FY17 include:
  - Over 950,000 items downloaded by the end of FY17 across 220 countries. This represents a 26% increase from last year.
  - Over 11,000 items are now available in Digital Commons@Becker. This represents a 15% increase from last year.
  - Collections with the most downloads include – Program in Audiology and Communication Science Capstone Projects (340,000), Washington University Open Access Publications (333,000), and the Faculty publications of the Institute of Clinical and Translational Sciences (228,000).
  - In collaboration with Becker Library's Archives and Rare Book division, the following new collections were added:
    - o The Fighting Twenty-First http://digitalcommons.wustl.edu/fighting_21st/
    - o Washington University Medical Alumni Quarterly http://digitalcommons.wustl.edu/med_alumni_quarterly/
    - o The Hatchet Yearbook http://digitalcommons.wustl.edu/hatchet/

- **NIH Public Access Policy**
  In coordination with the Office of the Vice Chancellor for Research, Becker librarians work to promote compliance with the NIH Public Access Policy. Answering questions and providing support for the NIH Public Access Policy continues to be an active area of support service. Presentations to approximately 60 researchers and staff were given through brown bags,

department meetings, and administrator forums. Librarians also continue to submit papers to NIHMS on behalf of NIH-funded investigators, which now totals over 230 submissions.

Changes in NIH requirements and the introduction of new and enhanced grant preparation tools also led to new presentations on topics such as the revised NIH Biosketch and NCBI tools such as My Bibliography and SciENcv. Approximately 65 faculty and staff attended these sessions during the past year.

- **Author Support Services**
  Support for our campus authors continued to grow during the past year as the range of questions expanded. Examples of services included guidance on DOIs, copyright, selecting a journal for publication, correction of names in databases, publishing options, to name a few. The library also provides guidance for authors ranging from publication copyright agreements, use of images, copyright for software, copyright for data, how to protect content from being re-used without permission, Fair Use, Creative Commons license information, how to obtain permission, use of materials created under work-for-hire, how to handle course materials with identifiable patient information to name a few. To supplement our author support services, online guidance aides were developed on the following frequently requested topics:
    - Telling Your Story
    - Selecting a Journal for Publication
    - Establishing Your Author Profile
    - Preparing for Publication

Evaluation & Assessment

The requests for evaluation and assessment of scholarly and research impact continued to grow during the past year. Becker librarians conducted over 6,000 author searches in FY17 to provide a wide range of reports and analytical summaries in areas that included:

- Departmental productivity and performance
- Individual productivity and performance for tenure purposes
- University performance in specific subject areas
- h index reports
- Publication reports

Administrators and faculty also engaged Becker librarians to consult on questions such as the importance of journal impact factor scores, how to compare clinicians with investigators, what metrics to use for comparison across disciplines, and individual metrics such as the h index and the v index. Each project reflected the many ways that publication and grant data are now being used to analyze research and scholarly performance.

An area of evaluation that continues to expand is support for investigators submitting grant proposals, reports and/or renewals. Information such as publication data metrics and graphs/tables are now being used to supplement and strengthen grant proposals and renewals through visualizations of an investigator's research impact. Becker librarians regularly provide as part of their evaluation reports visualizations such as choropleth maps, Wordle maps, and social network and co-author network maps.

During the past year, Becker librarians provided the services described above to over 20 departments, programs, centers, and central administrative units. Support services also extended to assisting investigators with their faculty profile pages, establishing their online profiles and provide recommendations for enhancing their impact.

To help meet the growth in demand and enhance the efficiency of the library's evaluation services, Becker technology staff developed a custom application to quickly analyze and calculate authorship ordering information that figures prominently in many reports requested by the campus community.

Health and Science Communications

- **Communicating Science 2016 Symposium**
  Becker Medical Library, in partnership with the Office of the Vice Chancellor for Research, Office of Medical Public Affairs, and the School of Engineering & Applied Science, hosted a four-day symposium that brought together a series of instructional workshops and presentations focused on communication challenges facing scientists. In addition to a series of presentations on special topics such as communicating with the media, using social media to communicate research, improving public speaking and presentation skills, the symposium also featured a two-day workshop by instructors from the Alan Alda Center for Communicating Science. The response from the approximately 200 attendees at the opening plenary session, 80 participants in the sessions on special topics, and the 32 faculty, staff, and students who attended the Alda Center Workshop was overwhelmingly positive and plans to build on the success of the symposium with ongoing presentations and workshops is currently underway.

- **ICTS/Becker Medical Library Communication Series**
  Building on the campus response to the Communicating Science Symposium, Becker Medical Library collaborated with the Institute of Clinical and Translational Sciences (ICTS) to launch a monthly series of presentations on a variety of science and health communication topics featuring campus and local communication and media experts. The series will be free and open to the entire campus community and will begin in fall 2017.

- **Growth in Health Communication Training**
  A highlight from the past year was the significant growth in the interest and the scope of education and training related to health communication. Approximately 350 faculty, staff, and students attended presentations on topics that included:
    - Basics of health literacy
    - Health literacy for global audiences
    - Communicating science across cultures
    - Using social media in academic research and medicine
    - Health literacy and the internet
    - General oral communication strategies for research participants
    - Empathy in the consent process

- **Health Communication Training for Students**
  In addition to continuing to provide a lecture on health literacy basics to 1st year medical students and medical students volunteering at the Saturday Clinic service, the library's Health Communication Specialist provided similar education for the first time to third year Physical Therapy students and students in the Master of Population Health Sciences Program.

- **Health Literacy and Plain Language Review Service**
  Now in its second year, this service continues to assist clinicians, investigators, and students in creating written materials for patients and research participants. In the past year, departments and programs requesting services included Occupational Therapy, Office of Medical Public Affairs, Knight Alzheimer Disease Research Center, and the Department of Pediatrics.

SLCH Family Resource Center

Becker Medical Library continued its longstanding partnership with the St. Louis Children's Hospital Family Resource Center during FY17. Working alongside SLCH nursing professionals, Becker Library's consumer health librarian provides health information services and education materials to patients and their families and represents Becker Library and the Family Resource Center in community outreach events. Highlights from the past year include:
- A presentation of autism education materials at an Autism Awareness Event at the Herbert Hoover Boys & Girls Club in St. Louis.
- Coordination of the SLCH component of the second annual BJC Book Brigade initiative to collect new books for incoming 3rd graders in school districts where there are BJC hospitals.
- An information booth on FRC services and resources at the Danforth Campus and School of Medicine Health Happenings.
- A presentation of LGBT information materials at the St. Louis Special School District Agency Collaboration Meeting.
- A collaboration with Emergency Room physicians to create web pages specifically for teens about adolescent health issues; at-risk teens who come to the ER are given the opportunity to access reliable health information through their smartphones.
- Development of a "Coffee Talk" program every Thursday in the FRC to promote new book displays and special handouts for patient families.
- Collaboration with the Nurse Navigator at the new SLCH Children's Specialty Care Center (CSCC) to provide a limited number of FRC resources for checkout at the CSCC.

Library Technology Support

To meet the increasing volume and diversity of the library's technology needs, a Technology Support Specialist position was created during FY17. This reorganization has made it possible for library staff to begin larger projects such as a complete redesign of the library website, the development of new online newsletters, and the development and launch of a specialized application for library special collections management.

Appendix A
2017 Library Statistics

Collection Statistics

Electronic Journal Titles	6,648
Total Number of Print Journal Titles	4,984
Electronic Book Titles	53,136
Circulating Print Volumes (journals & books)	106,940
Paid Electronic Database Subscriptions	23
Audiovisual Items (CD, DVD, etc.)	4,795
Rare Book Volumes	16,374
Archival Material (linear feet)	4,256

Research Services

Systematic Reviews completed	69
Literature Searches completed	447
Information Services Desk inquiries	1687
Librarian inquiries	1893
EndNote training sessions	113

Online Guides (BeckerGuides)

Becker librarians create and maintain a variety of guides and resources to assist users in multiple subject areas. During FY17 the total page views across all Becker Guides was 48,184. The following table lists the top 20 guides based on total views.

Guide Name	Total Views
Tools for Authors	6986
NIH Biosketch	6045
Systematic Reviews	3899
Classes, Online Tutorials and Videos	2156
Quantifying the Impact of My Publications	2150
Consumer Health	2119
PT: Evidence-Based Physical Therapy Practice	1837
NIH Public Access Policy	1665
Clinical Portal	1575

Designing Search Strategies for Systematic Reviews	1493
OT Department/OT5315/5380	1418
The Female Body in History - A Guide to the Becker's Holdings	1388
Anesthesiology Resources	1148
Qualitative Research	1096
Research Impact	1094
Global Health Resources	1013
Audiology and Deaf Education	929
Gun Violence Crisis: Resources	663
Patient Safety & Quality Improvement	650
Manuscript Preparation	612

Collection Use

	FY17		FY16		% Change	
	Unique Items	Uses	Unique Items	Uses	Items	Use
E-journals		2,718,057		2,600,244		4.5%
E-books	15,705	500,534	17,630	693,307	-11%	-28%
Print journals	51	96	996	2,401	-95%	-96%
Print books	3,178	4,642	4,295	5,931	-26%	-22%
Audiovisuals	28	73	65	406	-57%	-82%
Checkouts	1,662	2,848	2,354	4,161	-30%	-32%

Borrowers

	FY17		FY16	
	# Borrowing Materials	% of Registered Borrowers	# Borrowing Materials	% of Registered Borrowers
Students	1,118	37	1,449	48
Faculty/staff	806	27	1,021	33
Resident/Fellow	385	13	580	19

Top 20 Print Books Used in FY17

Book Title	Author	Usage
Principles of Biostatistics	Pagano, Marcello,	31
Robbins and Cotran Pathologic Basis of Disease	*	24
Sternberg's Diagnostic Surgical Pathology	*	24
First Aid for the Psychiatry Clerkship	Ganti, Latha,	24
Molecular Cell Biology	Lodish, Harvey F.	24
Step-Up to Medicine	*	23
Robbins Basic Pathology	*	23

Physiology	Costanzo, Linda S.	23
Essential Clinical Anatomy	Moore, Keith L.	22
Master the Boards	Fischer, Conrad,	20
Principles of Neural Science	*	20
USMLE Step 2 Secrets	O'Connell, Theodore X.	19
AAMC Data Book	*	19
Step-Up to Medicine	Agabegi, Steven S.	17
Case Files®	Toy, Eugene C.,	15
Gray's Basic Anatomy	Drake, Richard L.	15
Before We Are Born	Moore, Keith L.	14
Case Files	Toy, Eugene C.,	13
First Aid for the USMLE Step 2 CS	Le, Tao	13
Step-up to USMLE Step 2 CK	Jenkins, Brian,	13

* 3 or more authors listed for this book title.

Top 25 E-Books Used in FY17

Below is a list of the top 25 e-books used according to the data in the Counter 4 Standard's Book Report2 report.   For the Counter 4 Book Report 2, each vendor is allowed to choose what type of section use will be counted. This leads to different vendors counting different things.

Title	Platform	FY 17 Usage*
Nelson Textbook of Pediatrics (Twentieth Edition)	Clinical Key	4,765
Surgery	Springer Link	4,632
IM ESSENTIALS	R2Library	3,609
Pathophysiology of Heart Disease: A Collaborative Project of Medical Students and Faculty	LWW Health Library	3,347
Case Files: Pediatrics	Access Case Files	3,311
Diagnostic and Statistical Manual of Mental Disorders	American Psychiatric	2,828
Computer Vision — ECCV'98	Springer Link	2,793
Case Files: Ob/Gyn	Access Case Files	2,553
Principles of Critical Care	Access Medicine	2,484
Case Files: Neurology	Access Case Files	2,130
Neurology: Pre Test® Self-Assessment and Review	Access Medicine Neurology Col	2,092
Case Files: Internal Medicine	Access Case Files	2,004
Cummings Otolaryngology (Sixth Edition)	Clinical Key	1,865
Reference Module in Biomedical Sciences	Science Direct	1,820
Case Files: Surgery	Access Surgery	1,645
The ASCRS Textbook of Colon and Rectal Surgery	Springer Link	1,595
Case Files: Psychiatry	Access Case Files	1,579
Harrison's Principles of Internal Medicine	Access Medicine	1,553
Case Files: Ob/Gyn	Access Case Files	1,480

Felson's Principles of Chest Roentgenology, a Programmed Text (Fourth Edition)	Clinical Key	1,456
Miller's Anesthesia (Eighth Edition)	Clinical Key	1,449
Morgan & Mikhail's Clinical Anesthesiology	Access Medicine	1,434
Johns Hopkins ABX Guide	Unbound Medicine	1,357
Encyclopedia of Machine Learning and Data Mining	Springer Link	1,353
The Teaching Files: Musculoskeletal	Clinical Key	1,344
Total usage for the 25 most accessed electronic books:		**56,478**

* Usage refers to "chapter views and downloads" for each platform listed.

Top 20 E-Journals Used in FY17

Below is a list of the top 20 E-Journals used according to the data in the Counter 4 Standard's Journal Report1 report. This report counts the number of successful full-text article requests.

Journal Title	Publisher	FY 17 Usage
Nature	Nature Publishing Group	111,448
New England Journal of Medicine	Massachusetts Medical Society	93,371
PNAS	National Academy of Sciences	62,508
Cell	Elsevier	58,025
Science	Amer. Assoc. for the Advancement of Science	57,285
Journal of Biological Chemistry	Amer. Soc. for Biochemistry and Mol. Biology	40,863
JAMA	American Medical Association	34,532
Neuron	Elsevier	29,413
Blood	American Society of Hematology	27,329
Journal of Neuroscience	Society for Neuroscience	26,451
Journal of Immunology	American Association of Immunologists	22,877
Clinical Infectious Diseases	Oxford University Press	20,523
Lancet	Elsevier	20,070
Immunity	Elsevier	19,426
Nature Genetics	Nature Publishing Group	18,971
Nature Neuroscience	Nature Publishing Group	18,799
Cancer Research	American Association for Cancer Research	18,162
Nature Immunology	Nature Publishing Group	17,414
Nature Methods	Nature Publishing Group	16,842
Nature Medicine	Nature Publishing Group	16,642
	Total usage for the 20 most accessed journals:	**730,951**

FY17 = 97% of FY16 for the top 20 E-Journals:
Total usage FY 17 = 730,951; Total usage FY 16 = 755,682

Interlibrary Loan Services

Becker Library provides a document delivery service that allows WUSM faculty and staff to request articles to be copied and delivered for a small fee as well as interlibrary loan services for obtaining from other libraries books and articles not owned by Becker. In FY17 Becker patrons made 3,432 requests through Interlibrary Loan for content from 1,281 different titles; 2,978 items from 1,249 titles were received. Many articles and books are also loaned to other libraries.

ILL Requests Filled by Becker Library Collection

Total ILL	FY2013	FY2014	FY2015	FY2016	FY2017
Requests	18,940	18,301	14,520	13,099	13,206 *
Filled	14,076	14,120	11,381	10,302	9,261**

*Percent of change from 2016 to 2017 = 0.8%

**Percent of change from 2016 to 2017 = -10.3%

Becker Library Borrowed from Other Libraries

Borrowing	FY2016	FY2017	% Change
Requests	1708	1931	13.1%
Cancelled	457	446	-2.4%
Filled	1251	1485	18.7%

Journal Titles Most Requested from Other Libraries by WUSM Patrons in FY17

Journal Title	No. of Requests
Thermal Environmental Engineering	4
Dyes & Pigments	3
Journal of Cardiovascular Pharmacology	3
MCN The American Journal of Maternal, Child Nursing	3
Principles of Refrigeration	3
Psychiatric Annals	3
American Journal of Obstetrics and Gynecology	2
Architectural Forum	2
Archives of Pathology	2
Blood	2
Boston Medical Surgery	2
Drug Testing and Analysis	2
International Journal of Human-Computer Interaction	2
International Journal of Occupational and Environmental Health	2

Journal of Drugs Dermatology	2
Journal of Chronic Fatigue Syndrome	2
Journal of Managed Care Medicine	2
Journal of Religion, Disability & Health	2
Journal of Thoracic Surgery	2
Nature	2
The Handbook of Marketing Research	2
Wiley Interdisciplinary Reviews RNA	2

Appendix B
2017 Staff Professional Activities

Publications

Brander E. Poetry and Scandal: Cecile M. Franklin's The Surgeon's Reverie. Gateway: The Magazine of the Missouri History Museum. Spring 2017: 19-29.

Patel R, Ravichandran S, **Doering M**, **Hardi A.** A Multicomponent Library Resource Model to Enhance Academic Global Health Education Among Residency Programs. Medical References Services Quarterly, 36 (2), 120-28, 2017.

Drewry A, Ablordeppey E, Murray ET, Stoll C, Izadi S, Dalton C, **Hardi A**, et.al. Antipyretic therapy in critically ill patients: a systematic review and meta-analysis. Critical Care Medicine, 45 (1), 806-13, 2017.

Boots C, Meister M, Cooper A, **Hardi A**, Jungheim E. Ovarian stimulation in the luteal phase: systematic review and meta-analysis. Journal of Assisted Reproduction and Genetics, 33 (8), 971-980, 2016.

Wong AW, Chang TT, Christopher K, Lau SC, Beauptin LK, Love B, **Lipsey KL**, Feursein M. Patterns of unmet needs in adolescent and young adult (AYA) cancer survivors: in their own words. J Can Survivor, E-pub 3/31/2017.

Invited Presentations

Gutzman K, Bales ME, Belter CW, Chambers T, Chan L, Holmes KL, Lu YL, Palmer LA, Reznik-Zellen R, **Sarli CC, Suiter AM,** Wheeler TR. Implementing the Vision: Making Research Evaluation Services a Reality. Medical Library Association Annual Meeting and Exhibition, Seattle, WA. May 2017.

Gutzman K, Lu YL, Belter CW, Holmes KL, **Sarli CC**, Wheeler TR, Bales ME, **Suiter AM**, Chambers T, Bakker C, Chan L, Gore SA. From Dreaming to Doing: Implementing Research Assessment Services. Medical Library Association Annual Meeting and Exhibition, Seattle, WA. May 2017.

Thomas D. The role of the library at Washington University School of Medicine. The 5th Mekelle Medical Education Collaboration. Mekelle, Ethiopia. May 29-31, 2017.

Thomas D. Evidence-based medicine: an overview. The 5th Mekelle Medical Education Collaboration. Mekelle, Ethiopia. May 29-31, 2017.

Contributed Presentations

Fowler S, Suiter A, Hardi A. Librarians as systematic review co-authors: correlation with citation impact scores. Medical Library Association Annual Meeting and Exhibition, Seattle, WA. May 2017.

Logsdon S. Becker Archives Digital Content Organization Plan. Society of American Archivist Annual Meeting, Atlanta, GA. August 2016.

Contributed Posters

Hardi A, Doering M, Fowler S, Simon L and Yaeger L. The Effectiveness of a hands-on systematic review course: pilot project findings. Poster 204. Medical Library Association Annual Meeting and Exhibition, Seattle, WA. May 2017.

Referee Activities

Sarli CC. Academic Emergency Medicine (peer-reviewer).

Vana M. Evaluation panel member for NIH R25 grant awarded to Johns Hopkins University. Training & Tools for Informationists to Facilitate Sharing of Next Generation Sequencing Data. Award period, 2015-2017.

Other

Fowler S, Hardi A, Doering M, Simon L, Yaeger L.   Designing Search Strategies: A hands-on course.   Systematic Review Workshop, Washington University, St. Louis, MO. April 2017.

Laura Simon. Friends of Nursing Award. 22nd Annual Nursing Awards Ceremony, Barnes Jewish Hospital, St Louis, MO. May 10, 2017.

Kim Lipsey. Medical-Surgical Nursing Certification Board – Public Member Director, 2017-2019.

Kim Lipsey. St. Louis Medical Librarians Board – Chair, Recognition & Awards Committee, 2016-2017.

Appendix C
FY2017 Departmental Staff Listing

Library Director's Office

Paul Schoening	Associate Dean and Director
Rose Kettler	Administrative Coordinator

Finance Office

Joelene Swearingen	Finance Director
Sue Hennessey	Senior Departmental Accounting Assistant
Zoe Martin	Accounting Assistant II
Laura Swofford	Communications and Marketing Coordinator

Collection Management Services

Marysue Schaffer	Associate Director, Collection Management
Pat Gunn	Electronic Resources and Serials Librarian
Anise Gilliam	Serials Assistant
Denise Hannibal	Monograph Acquisitions Librarian
Brian McKinney	Binding and Preservation Assistant
Anna Vani	Catalog Librarian

Archives and Rare Books

Elisabeth Brander	Rare Book Librarian
Caitlin Crane	BJH Project Archivist
Stephen Logsdon	Archivist
Martha Riley	Rare Books Cataloger and Archivist
Philip Skroska	Visual and Graphic Archivist

Health Information Services

Deborah Thomas	Associate Director, Health Information Services
Michelle Doering	Librarian
Susan Fowler	Librarian

Emily Gallaher	Librarian
Angela Hardi	Librarian
Kim Lipsey	Librarian
Laura Simon	Librarian
Lauren Yaeger	Librarian

Circulation

Ellen Bender	Library Assistant
Stephanie Coen	Library Assistant
Lauren Hoerr	Library Assistant
Daniel Klosterman	Library Assistant
Nathaniel Potts	Library Assistant
Angie Rosengarten	Evening Circulation Supervisor
James Zerkel	Library Assistant

Interlibrary Loan and Document Delivery

Barb Mathieu	Verification and Assistance
John Huth	Library Assistant

Translational Research Support

Bob Engeszer	Associate Director, Translational Research Support
Robert Altman	Library Operations and Systems Specialist I
Judy Hansen	Consumer Health Librarian
Maze Ndonwi	Senior Support Scientist
Cathy Sarli	Scholarly Communications Specialist
Lucas Steinbeck	Technology Support Analyst II
Amy Suiter	Scholarly Publishing Librarian
Marcy Vana	Senior Support Scientist
Mychal Voorhees	Community Outreach and Public Health Services Coordinator

Appendix D
2017 Historia Medica Lectures

Mark J. Mannis, MD FACS
52nd Historia Medica/6th Annual Bohigian Lectureship
"Shakespeare's Eye: A Study of the Eye in Disease and Metaphor in the Works of William Shakespeare"
September 28, 2016

Paola Bertucci, DPhil and Stanley Finger, PhD
53rd Historia Medica Lecture
"Frankenstein, the Vital Force, and Electricity"
October 6, 2016

William G. Powderly, MD
54th Historia Medica Lecture
"How Infection Shaped America: Lessons from Irish Famine"
November 10, 2016

Stephen Lefrak, MD
55th Historia Medical Lecture
"The Living Heritage of John Locke and his Colleagues: From the Enlightenment through Tomorrow"
January 12, 2017

Elisabeth Brander, MA, MLS
56th Historia Medica Lecture
"Books and Bodies: 500 Years of Printing Medical Texts"
February 16, 2017

Richard Brasington, MD
57th Historia Medica Lecture
"A Brief History of Informed Consent in the United States"
March 16, 2017