State of the Department
November 3, 2016

Frederick W. Fraunfelder, MD, MBA
Professor and Chair
CLINICAL FACULTY

Frederick Fraunfelder, MD, MBA
Chair & Roy E. Mason and Elizabeth Patee Mason Distinguished Professor Ophthalmology

Jella An, MD
Assistant Professor of Clinical Ophthalmology

Raneat Cohen, OD
Assistant Professional Practice Professor of Ophthalmology

Taia Cordel, OD
Assistant Professional Practice Professor of Ophthalmology

John Cowden, MD
Retired Chair Cornea, Cataract & Refractive Surgery

Geetha Davis, MD
Assistant Professor of Clinical Ophthalmology, Residency Program Director

Ahmed Elkeeb, MD
Assistant Professor of Clinical Ophthalmology (Vitreoretinal)

Anthony Grillo, MD
Assistant Professor of Clinical Ophthalmology
VA ADJUNCT CLINICAL FACULTY

Nathan Hesemann, MD
Adjunct Assistant Professor
Harry S. Truman Veteran’s Hospital
Chief of Eye Services

Billi Wallace, MD
Adjunct Clinical Professor
Courtesy Appointment
Starting November, 2016

Kathy Lentz, MD
Clinical Assistant Professor
General Ophthalmology

Anitra Turner, MD
Staff Ophthalmologist
Starting January 8, 2017
Martin Katz, PhD
Professor of Ophthalmology
Director Campus Electron Microscopy Core Facility

Rajiv Mohan, MS, PhD, FARVO
Professor of Ophthalmology & Molecular Science, Residency Research Coordinator
Ruth M Kraeuchi Missouri Endowed Chair Professor of Ophthalmology, Director Ophthalmology One-health One-medicine Research Program

Murugesan Raju, PhD
Assistant Professor of Research

Santhoshkumar Puttur, PhD
Assistant Professor of Research

Lixing Reneker, PhD
Associate Professor
Ophthalmology and Biochemistry

Krishna Sharma, MSc, PhD
Professor of Ophthalmology
Director of Research

Rebecca Whiting, PhD
Assistant Professor of Research
Katherine Bibi, DVM
Veterinary Postdoctoral Fellow
Neurodegenerative Diseases Laboratory
Department of Veterinary Medicine & Surgery
Dr. Katz’s lab

LanLan Wang, PhD
Department of Ophthalmology
Dr. Reneker’s lab
# CURRENT GRANTS

**Rick Fraunfelder, MD**
- **Coulter Award**
  - $106,000—Amount in current year, 1-year grant

**Dean Hainsworth, MD**
- **Coulter Award**
  - $100,000—Amount in current year, 1-year grant
- **NIH Epidemiology of Diabetes study**
  - $145,555—Amount in current year
  - $875,000—Total amount, 6-year grant

**Martin Katz, PhD**
- **National Eye Institute grant**
  - $376,795—Amount in current year
  - $1.9 million—Total amount, 5-year grant
- **BioMarin Pharmaceutical**
  - $310,561—Amount in current year
  - $2.0 million—Total amount, 7-year grant

**Lixing Reneker, PhD**
- **National Eye Institute grant**
  - $383,750—Amount in current year
  - $1.9 million—Total amount, 5-year grant

**Krishna Sharma, PhD**
- **National Eye Institute grant**
  - $391,718—Amount in current year
  - $1.95 million—Total amount, 5-year grant

**Rebecca Whiting, PhD**
- **Knights Templar Career Starter grant**
  - $64,774—Amount in current year
  - $124,774—Total amount, 2-year grant
- **Barnes-Jewish Hospital Foundation/Washington University ICTS. 1 year**
  - $50,000—Amount in current year, 1-year grant
- **Batten's Disease Support and Research Association**
  - $55,000—Amount in current year, 1-year grant
Rebecca Whiting, Ph.D.

received a $60,000 Pediatric Ophthalmology Career-Starter Research Grant Award, from Knights Templar. The Knights Templar Eye Foundation is committed to support research that can help launch the careers of clinical or basic researchers committed to the prevention and cure of potentially blinding diseases in infants and children. The award was presented at the Residents and Alumni Scientific Session on Friday, May 29, 2015, by Sir Knight Russell S. Hanson, PGC and Sir Knight Harold F. Coots, PJGC.
MU is one of only 16 academic institutions in the country and the only university in Missouri offering a Coulter Translational Partnership Program. The 2016 Coulter program awards of approximately $100,000 each were given to five teams with a total of 11 researchers to fund the following projects:

**Corneal Cryopreservation and Storage System:** Xu Han, PhD, assistant research professor in the Department of Mechanical and Aerospace Engineering, and Frederick Fraunfelder, MD, Roy E. Mason and Elizabeth Patee Mason Distinguished Professor and chair of the Department of Ophthalmology, have developed an inexpensive and disposable storage device that protects corneal tissue from damage caused by extracellular ice formation during the freezing process. This storage method has the potential to increase the amount of corneal transplants performed each year, especially in countries that must rely on imported corneas and are unable to use them due to the current 14-day storage limit, which are difficult to obtain in sufficient quantities due to the current 14-day storage limit.

Published in MU Health News online October 12, 2016.
RESIDENCY PROGRAM HIGHLIGHTS

ACGME accredited program
43 interviews
337 applications.
100% board pass rate

Very positive ranks from our residents on the annual ACGME resident survey.

RRC 5 year accreditation
VA, research, surgical numbers, leadership, subspecialties, fellowships, jobs

Geetha Davis, MD
Residency Program Director

Sheri Samp
Residency Program Coordinator
RESIDENTS- THIRD YEAR

Erica Ballard, MD
College: University of Missouri Columbia
Medical School: University of Missouri Columbia-School of Medicine

Jason T. Rodier, MD
College: University of Missouri Columbia
Medical School: University of Missouri Columbia-School of Medicine

Lauren N. Wiggins-Johnson, MD
College: Harvard University
Medical School: UTHSC San Antonio

Philip Wilson, DO
College: University of Missouri Columbia
Medical School: A.T. Still University-KCOM
RESIDENTS- SECOND YEAR

Benjamin Buckner, MD
College: Brigham Young University
Medical School: UT Southwestern

Mack Savage, MD
College: Creighton University
Medical School: University of Iowa

Austin Strohbehn, MD
College: Iowa State University
Medical School: University of Iowa Carver College of Medicine
RESIDENTS- FIRST YEAR

Lindsey McDaniel, MD
College: University of Missouri-Columbia
Medical School: University of Missouri-Columbia

Trevor Rosenlof, MD
College: Brigham Young University
Medical School: Tulane University School of Medicine

Samuel Thomsen, MD
College: Nebraska Wesleyan University
Medical School: University of Nebraska School of Medicine
RESIDENTS- 2017 ADDITIONS

Ethan Crider, MD
University of Missouri- Columbia

Salman Sarwar, MD
University of Nebraska
(Research Fellowship)

Ryan Mercer, MD
University of South Carolina
The ocular manifestations of an accelerated murine model for Sjogren's Syndrome.

Mentor: Dr. Petris
PLEASE JOIN US IN RECOGNIZING

Krishna Sharma, PhD

AND HIS APPOINTMENT AS

Beryl J. Ortwerth
Distinguished Professorship of Ophthalmology

Wednesday, November 16, 2016

PROGRAM AND REMARKS TO BEGIN AT 12:15 P.M.
Acuff Gallery
Doris Eagle received the 2016 Chancellor’s Outstanding Staff Award Clerical/Office Category.

Kelley Faup was a top 4 finalist in the 2016 Chancellor’s Outstanding Staff Award in the Administrative/Professional division.

Kelley was also nominated for the Lee Henson Access Mizzou Award for 2016. The award was established in 2014 by the MU Chancellor’s Committee for Persons with Disabilities to honor Lee Henson by recognizing those who have made significant contributions to accessibility and the inclusion of people with disabilities at Mizzou and beyond.
Annual Alumni Event at AAO Meeting

Saturday, October 15, 2016
Cantina Laredo Restaurant
41 attendees

Next year – New Orleans, LA!
VISITING LECTURE SERIES

John Aure Buesseler, MD Visiting Professorship
*The Treatment of Age Related Macular Degeneration: Past, Present, and Future*
February 11 – 12, 2016
Nelson R. Sabates, MD
President and CEO of Sabates Eye Centers.
Professor of ophthalmology and chairman of the Department of Ophthalmology at UMKC’s School of Medicine

John W. Cowden, MD, Visiting Professorship
*What I have learned about life that will help you*
September 29-30, 2016
Frederick T. Fraunfelder, MD
Professor Emeritus, Department of Ophthalmology
Casey Eye Institute, Oregon Health & Science University
Portland, Oregon

Robert P. Burns, MD and Lynette Feeney-Burns, PhD
Visiting Professorship
*Diabetic Macular Edema*
November 10-11, 2016
Craig M. Creven, MD
Professor and Chairman
Department of Ophthalmology
Director, Wake Forest University Eye Center
OUR UNIQUE SERVICES

Mizzou Optical
University of Missouri Health Care
NEW CLINICAL SERVICES

LASER CATARACT SURGERY
NEW CLINICAL SERVICES

LASER CATARACT SURGERY
Surgical Growth

• 44.3% growth in ophthalmology surgeries since FY13

• Make up 48.6% of surgical cases and 31.8% of surgery minutes at MCOS

• Projected 13% growth in FY17
Clinic Visit Growth

- 28.3% growth in clinic visits since FY13
- Projected 18.6% growth in FY17
Opportunities for Improvement
<table>
<thead>
<tr>
<th>Measure</th>
<th>Q1 2016</th>
<th>Q2 2016</th>
<th>Q3 2016</th>
<th>Q4 2016</th>
<th>August 2016 Goal</th>
<th>Jun-16</th>
<th>Jul-16</th>
<th>Aug-16</th>
<th>FYTD</th>
<th>FYTD Goal</th>
<th>Prior FYTD</th>
</tr>
</thead>
<tbody>
<tr>
<td>% New Patients Seen in Less Than 14 Days</td>
<td>45.8%</td>
<td>45.6%</td>
<td>50.2%</td>
<td>43.0%</td>
<td>48.7%</td>
<td>43.8%</td>
<td>42.2%</td>
<td>43.2%</td>
<td>45.1%</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>DEPT</th>
<th>PROV CAT (DIV)</th>
<th>Total NV’s</th>
<th>&lt; 10 Days</th>
<th>% &lt; 10 Days</th>
<th>Total NV’s</th>
<th>&lt; 10 Days</th>
<th>% &lt; 10 Days</th>
<th>Total NV’s</th>
<th>&lt; 10 Days</th>
<th>% &lt; 10 Days</th>
<th>Total NV’s</th>
<th>&lt; 10 Days</th>
<th>% &lt; 10 Days</th>
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<tbody>
<tr>
<td>OPH</td>
<td>CORNEA</td>
<td>65</td>
<td>55</td>
<td>84.6%</td>
<td>31</td>
<td>18</td>
<td>58.1%</td>
<td>23</td>
<td>16</td>
<td>69.6%</td>
<td>54</td>
<td>34</td>
<td>63.0%</td>
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<tr>
<td>OPH</td>
<td>GENERAL OPHTHALMOLOGY</td>
<td>185</td>
<td>92</td>
<td>49.7%</td>
<td>120</td>
<td>74</td>
<td>61.7%</td>
<td>100</td>
<td>48</td>
<td>48.0%</td>
<td>220</td>
<td>122</td>
<td>55.5%</td>
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<tr>
<td>OPH</td>
<td>NEURO OPHTHALMOLOGY</td>
<td>38</td>
<td>13</td>
<td>34.2%</td>
<td>46</td>
<td>10</td>
<td>21.7%</td>
<td>15</td>
<td>6</td>
<td>40.0%</td>
<td>61</td>
<td>16</td>
<td>26.2%</td>
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<tr>
<td>OPH</td>
<td>OCULOPLASTICS</td>
<td>45</td>
<td>27</td>
<td>60.0%</td>
<td>23</td>
<td>11</td>
<td>47.8%</td>
<td>36</td>
<td>17</td>
<td>47.2%</td>
<td>59</td>
<td>17</td>
<td>47.5%</td>
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<tr>
<td>OPH</td>
<td>OPTOMETRIST</td>
<td>106</td>
<td>25</td>
<td>23.6%</td>
<td>110</td>
<td>29</td>
<td>26.4%</td>
<td>67</td>
<td>13</td>
<td>19.4%</td>
<td>177</td>
<td>42</td>
<td>23.7%</td>
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</tr>
<tr>
<td>OPH</td>
<td>RETINA</td>
<td>46</td>
<td>31</td>
<td>67.4%</td>
<td>17</td>
<td>17</td>
<td>100.0%</td>
<td>24</td>
<td>22</td>
<td>91.7%</td>
<td>41</td>
<td>39</td>
<td>95.1%</td>
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</tbody>
</table>

**GOAL:** 70% of new patients w/in 14 calendar days

Largest area of opportunity continues to be in Optometry

Have approval to hire an additional optometrist.
# Patient Satisfaction

## Clinic Compare

<table>
<thead>
<tr>
<th>Clinic</th>
<th>n-size</th>
<th>Provider Communication Composite</th>
<th>Provider explained things understandably</th>
<th>Provider listened carefully</th>
<th>Easy to understand information about concerns</th>
<th>Provider knew medical history</th>
<th>Provider showed respect for what patient said</th>
<th>Provider spent enough time with patient</th>
<th>Rating of provider</th>
<th>Would recommend provider's office</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organizational Target</td>
<td></td>
<td>96.2</td>
<td>95.9</td>
<td>96.6</td>
<td>95.6</td>
<td>90.2</td>
<td>97.2</td>
<td>94.7</td>
<td>88.9</td>
<td>95.0</td>
</tr>
<tr>
<td>Eye Institute East</td>
<td>1778</td>
<td>92.0</td>
<td>90.5</td>
<td>92.5</td>
<td>92.3</td>
<td>81.2</td>
<td>94.4</td>
<td>90.8</td>
<td>81.5</td>
<td>91.0</td>
</tr>
<tr>
<td>Clinics Total</td>
<td>3616</td>
<td>90.7</td>
<td>89.6</td>
<td>91.3</td>
<td>91.2</td>
<td>79.9</td>
<td>92.8</td>
<td>89.1</td>
<td>79.6</td>
<td>89.3</td>
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<tr>
<td>University of Missouri Healthcare</td>
<td>79256</td>
<td>91.0</td>
<td>90.6</td>
<td>91.0</td>
<td>90.9</td>
<td>81.6</td>
<td>92.5</td>
<td>89.7</td>
<td>79.2</td>
<td>69.4</td>
</tr>
<tr>
<td>Mason Eye Institute</td>
<td>1838</td>
<td>89.4</td>
<td>88.7</td>
<td>90.1</td>
<td>90.1</td>
<td>78.6</td>
<td>91.2</td>
<td>87.4</td>
<td>77.7</td>
<td>87.7</td>
</tr>
</tbody>
</table>

*Provider Communication Composite combines the results of four (4) measures: Provider explained things understandably, Provider listened carefully, Provider showed respect for what patient said, and Provider spent enough time with patient. This is in alignment with the CG CAHPS v3 provider composite.

FY 16 Goal was 65th Percentile Ranking (86.2% on rate provider and 93.2% on would recommend)
PATIENT SATISFACTION

Ophthalmology Plan:

• Identify Providers with high “n” and not meeting goals for most impact
• Work with Chief Experience Officer to develop curriculum and incorporate Beeson Modules
• Quality Improvement Project in clinic to optimize patient flow and reduce wait times

Challenges:

• Charge lag at Mason- working with University Physicians to get on CodeRyte and have hired additional coder
• Turnover in providers within data- considering a ½ day faculty retreat to refocus our efforts
PLANNED RECRUITMENT

- Pediatric Ophthalmology
- Glaucoma/ General Ophthalmology
- Optometry
- NIH funded PhD for Mission Enhancement
- Scribe, Ophthalmic Technician, Surgery Scheduler
Mason Eye Institute Renovation

BEFORE

AFTER
FUTURE VISION

MISSOURI EYE & EAR INSTITUTE
SmithGroup: Chicago, IL

CannonDesign, St. Louis

HOK Architects, St. Louis