NEW DOM DIVISION CHIEFS FY17

Katz Family Division of Nephrology and Hypertension and Drug Discovery Center
Alessia Fornoni, MD, PhD

Medical Oncology
Albert Craig Lockhart, MD

Interim Hospital Medicine
Erick Palma, MD
DOM DIVISION CHIEFS

Cardiovascular
Jeffrey Goldberger, MD, MBA

Clinical Pharmacology
Richard A Preston MD, MSPH, MBA

Endocrinology, Diabetes & Metabolism
Ernesto Bernal Mizrachi, MD

General Internal Medicine & Interim Geriatrics and Palliative Care
Olveen Carrasquillo, MD, MPH
DOM DIVISION CHIEFS, Continued

Hepatology & Interim Gastroenterology
Paul Martin, MD

Hematology
Joseph D. Rosenblatt, MD

Infectious Diseases
Mario Stevenson, PhD

Population Health & Computational Medicine
David Seo, MD

Pulmonary, Allergy, Critical Care & Sleep
Matthias Salathe, MD

Rheumatology
Eric Greidinger, MD
An unnatural silence hung in the kitchen, and Spunky sensed that his arrival was unexpected.
NUMBER OF FACULTY (excludes voluntary)

<table>
<thead>
<tr>
<th>Year</th>
<th>Faculty Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY10</td>
<td>324</td>
</tr>
<tr>
<td>FY11</td>
<td>325</td>
</tr>
<tr>
<td>FY12</td>
<td>324</td>
</tr>
<tr>
<td>FY13</td>
<td>336</td>
</tr>
<tr>
<td>FY14</td>
<td>328</td>
</tr>
<tr>
<td>FY15</td>
<td>326</td>
</tr>
<tr>
<td>FY16</td>
<td>319</td>
</tr>
<tr>
<td>FY17</td>
<td>326</td>
</tr>
</tbody>
</table>
FACULTY COMPOSITION by gender

<table>
<thead>
<tr>
<th>Year</th>
<th>Female</th>
<th>Male</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY13</td>
<td>32%</td>
<td>68%</td>
</tr>
<tr>
<td>FY14</td>
<td>34%</td>
<td>66%</td>
</tr>
<tr>
<td>FY15</td>
<td>35%</td>
<td>65%</td>
</tr>
<tr>
<td>FY16</td>
<td>33%</td>
<td>67%</td>
</tr>
<tr>
<td>FY17</td>
<td>33%</td>
<td>67%</td>
</tr>
</tbody>
</table>
FACULTY COMPOSITION by ethnicity

- Asian or Pacific Islander: 11% FY16, 12% FY17
- Black or African American: 5% FY16, 5% FY17
- Hispanic or Latino: 33% FY16, 37% FY17
- American Indian or Alaska Native: 0% FY16, 0% FY17
- Unknown: 0% FY16, 0% FY17
- White: 50% FY16, 46% FY17
- 2 or More Races (non-Hispanic): 1% FY16, 1% FY17
PROMOTION – ASSOCIATE PROFESSOR

Kalyan Bhamidimarri, MD, MPH
Hepatology

Gustavo Fernandez, MD
Oncology

Sonjia Kenya, EdD
Gen Int Med

David Kerman, MD
Gastroenterology

Ronan Swords, MD, PhD
Hematology
PROMOTION / TENURE

Erin Kobetz-Kerman, PhD, MPH
Population Health
TENURED PROFESSOR

Priyamvada Rai, PhD
Oncology
TENURED ASSOC PROFESSOR
HONORS

Alessia Fornoni, MD, PhD,
Member American Society for Clinical Investigation

Maria T. Abreu, MD
American College of Gastroenterology’s Minority Digestive Health Care Award
HONORS

Eduardo de Marchena, MD
UMMSM Alumni Association’s Hall of Fame Award

Hilit F. Mechaber, MD
Robert Sabalis Award for Exemplary Service

Steven Cohn, MD,
Society of Hospital Medicine’s Individual Award for Excellence in Teaching
Carlton falls for the old rubber-scalpel gag.
TOTAL OUTPATIENT VISITS

Arrived Patient Visits

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>NPV</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY13</td>
<td>150,000</td>
<td></td>
</tr>
<tr>
<td>FY14</td>
<td>160,000</td>
<td></td>
</tr>
<tr>
<td>FY15</td>
<td>170,000</td>
<td></td>
</tr>
<tr>
<td>FY16</td>
<td>180,000</td>
<td></td>
</tr>
<tr>
<td>FY17*</td>
<td>190,000</td>
<td></td>
</tr>
</tbody>
</table>

* - Annualized
# VISITS BY DIVISION

<table>
<thead>
<tr>
<th>Division</th>
<th>FY13</th>
<th>FY14</th>
<th>FY15</th>
<th>FY16</th>
<th>FY17</th>
<th>FY17 vs FY16 Variance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endocrinology</td>
<td>17441</td>
<td>15539</td>
<td>11129</td>
<td>13441</td>
<td>16202</td>
<td>21%</td>
</tr>
<tr>
<td>Hematology and Oncology</td>
<td>44212</td>
<td>51279</td>
<td>56404</td>
<td>60865</td>
<td>70685</td>
<td>16%</td>
</tr>
<tr>
<td>Hepatology</td>
<td>6752</td>
<td>701</td>
<td>6467</td>
<td>7654</td>
<td>9398</td>
<td>23%</td>
</tr>
<tr>
<td>----------------------------------------</td>
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<td>------------</td>
<td>------------</td>
<td>------------</td>
<td>------------</td>
<td>------------</td>
</tr>
<tr>
<td>Cardiology</td>
<td>22</td>
<td>153</td>
<td>237</td>
<td>273</td>
<td>234</td>
<td>214</td>
</tr>
<tr>
<td>Diabetes Services &amp; Endo</td>
<td>325</td>
<td>437</td>
<td>451</td>
<td>513</td>
<td>374</td>
<td>487</td>
</tr>
<tr>
<td>Gastroenterology &amp; Hepatology</td>
<td>97</td>
<td>171</td>
<td>197</td>
<td>219</td>
<td>177</td>
<td>233</td>
</tr>
<tr>
<td>Hematology and Oncology</td>
<td>245</td>
<td>436</td>
<td>513</td>
<td>626</td>
<td>496</td>
<td>648</td>
</tr>
<tr>
<td>Nephrology</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rheumatology</td>
<td>59</td>
<td>67</td>
<td>64</td>
<td>114</td>
<td>77</td>
<td>91</td>
</tr>
<tr>
<td>Sleep Medicine</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grand Total</td>
<td>748</td>
<td>1269</td>
<td>1503</td>
<td>1855</td>
<td>1440</td>
<td>1729</td>
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</table>

*Lennar as % of the total

<table>
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<tr>
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<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Grand Total</td>
<td>22%</td>
<td>20%</td>
<td>21%</td>
<td>21%</td>
<td>19%</td>
<td>20%</td>
</tr>
</tbody>
</table>
## ICU PROCEDURE VOLUMES

<table>
<thead>
<tr>
<th>ICU</th>
<th>FY2016</th>
<th>FY2017</th>
<th>% Variance</th>
</tr>
</thead>
<tbody>
<tr>
<td>JMH</td>
<td>13073</td>
<td>16832</td>
<td>29%</td>
</tr>
<tr>
<td>UMH</td>
<td>5499</td>
<td>8091</td>
<td>47%</td>
</tr>
<tr>
<td>UMHC</td>
<td>1188</td>
<td>1202</td>
<td>1%</td>
</tr>
<tr>
<td>Total</td>
<td>19760</td>
<td>26125</td>
<td>32%</td>
</tr>
</tbody>
</table>
PATIENT SATISFACTION – FY17

- DOM Faculty
  - 96th percentile for all facilities
  - 99th percentile for Teaching/Medical Facilities
EFFORTS TO IMPROVE QUALITY OF CARE

• INPATIENT
  • Pulmonary-UMH closed MICU
  • Established separate geographic Hem and Onc UMH teams

• AMBULATORY CARE
  • GIM initiated Medical Care Teams at UMHC and achieved a HEDIS* score of 3.76/5.00 for 2016 the Medicare Advantage Patients
  • Nephrology has fellows working with Attendings on multiple issues that affect UM Risk and Quality reporting
  • Endocrine-established new protocols for glucose monitoring and adjustment

*Healthcare Effectiveness Data & Information Set
FY18 CLINICAL GOALS

- Expand Hospitalist coverage at UMH
- Build interventional GI Program
- Build Cardiovascular Institute
- Geriatrics Resurrection-Miami Jewish Home
- Aventura Ambulatory Care Center
- Support EPIC implementation at UMH
- Kyruus enhanced access scheduling
“Well, yes, that is the downside, Fluffy. ... Once we kill her, the pampering will end.”
## TOP 10 NIH FUNDED ORGANIZATIONS & UMMSM

From the BLUE RIDGE INSTITUTE for MEDICAL RESEARCH [BRIMR.ORG](https://brimr.org)

<table>
<thead>
<tr>
<th>Rank</th>
<th>Name</th>
<th>Internal Medicine</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>UNIVERSITY OF CALIFORNIA, SAN FRANCISCO</td>
<td>$200,256,253</td>
</tr>
<tr>
<td>2</td>
<td>JOHNS HOPKINS UNIVERSITY</td>
<td>$164,331,712</td>
</tr>
<tr>
<td>3</td>
<td>VANDERBILT UNIVERSITY</td>
<td>$162,853,078</td>
</tr>
<tr>
<td>4</td>
<td>DUKE UNIVERSITY</td>
<td>$132,315,024</td>
</tr>
<tr>
<td>5</td>
<td>UNIVERSITY OF CALIFORNIA LOS ANGELES</td>
<td>$111,844,668</td>
</tr>
<tr>
<td>6</td>
<td>COLUMBIA UNIVERSITY HEALTH SCIENCES</td>
<td>$105,301,345</td>
</tr>
<tr>
<td>7</td>
<td>YALE UNIVERSITY</td>
<td>$99,846,257</td>
</tr>
<tr>
<td>8</td>
<td>UNIVERSITY OF WASHINGTON</td>
<td>$98,364,910</td>
</tr>
<tr>
<td>9</td>
<td>UNIVERSITY OF PENNSYLVANIA</td>
<td>$98,343,621</td>
</tr>
<tr>
<td>10</td>
<td>UNIVERSITY OF CALIFORNIA SAN DIEGO</td>
<td>$97,375,518</td>
</tr>
<tr>
<td>53</td>
<td>UNIVERSITY OF MIAMI SCHOOL OF MEDICINE</td>
<td>$13,944,672</td>
</tr>
</tbody>
</table>

Data source Blue Ridge Institute for Medical Research – Clinical Science Department Internal Medicine 2016
YTD TOTAL RESEARCH EXPENDITURES - $27.9M

- RESEARCH TRAINING: 3%
- SUPPORT SERVICE: 10%
- CLINICAL TRIAL INDUSTRY: 29%
- CLINICAL TRIAL NON-INDUSTRY: 11%
- FELLOWSHIP/SCHOLARSHIP: 1%
- OTHER: 0%
- INSTRUCTION: 0%

Data source UM Research Reporting System/Sponsored Research/Sponsored Expenditures as of May 15, 2017
RESEARCH TOTAL EXPENDITURES BY DIVISION

Hematology-Cancer Center
Medical Oncology-Cancer Center
Rheumatology
Pulmonary Medicine
Population Health & Computational Med
Nephrology
Katz Center
Infectious Diseases

2017YTD
Hospital Medicine
Hepatology
Hematology
Gerontology
General Medicine
Gastroenterology
Endo-Diabetes
Clinical Pharmacology
Chairman - Medicine
Cardiovascular

2016

Graph showing research total expenditures by division for various categories.
<table>
<thead>
<tr>
<th>Division</th>
<th>Active Awards</th>
<th>Cumulative Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardiovascular</td>
<td>1R</td>
<td>$383,750</td>
</tr>
<tr>
<td>Endo-Diabetes</td>
<td>2K; 5R; 1F</td>
<td>$5,436,183</td>
</tr>
<tr>
<td>GI/Hepatology</td>
<td>1F; 3R</td>
<td>$3,165,263</td>
</tr>
<tr>
<td>General Medicine</td>
<td>1U; 1R</td>
<td>$4,371,263</td>
</tr>
<tr>
<td>Gerontology</td>
<td>2R</td>
<td>$3,047,872</td>
</tr>
<tr>
<td>Hematology/Oncology</td>
<td>4R</td>
<td>$3,948,851</td>
</tr>
<tr>
<td>Infectious Diseases</td>
<td>2U; 1R; 1P</td>
<td>$7,646,359</td>
</tr>
<tr>
<td>Nephrology</td>
<td>1F; 1R</td>
<td>$2,106,994</td>
</tr>
<tr>
<td>Population Health</td>
<td>1R</td>
<td>$1,524,434</td>
</tr>
<tr>
<td>Rheumatology</td>
<td>1R</td>
<td>$1,718,536</td>
</tr>
</tbody>
</table>
ZIKA AWARDS - $2.3M (FL Dept of Health)

Claudia Martinez, MD
“Cardiovascular Complication Related to Zika Virus Infection.”
$963,109

Mark Sharkey, PhD
“Development of a rapid diagnostic assay for Zika Virus Infection.”
$199,273

Mario Stevenson, PhD
“Identification of the duration of ZIKV persistence to guide reproductive health decisions.”
$1,142,582
PHILANTHROPY - $27.8M

• Alessia Fornoni, MD, PhD
  – The Katz Family Foundation - $10M

• Marilyn Glassberg Csete, MD
  – The Marcus Foundation, Inc. - $15.3M

• Jeffrey Goldberger, MD
  – Miami Heart Research Institute, Inc. - $2.5M
INTRA-INSTITUTIONAL ENGAGEMENT

- Miami Clinical and Translational Science Institute (CTSI) ~$13.5M
  - Dushyantha Jayaweera, MD - Alignment Community
  - Matthias Salathe, MD - Alianza Miami Center for Research Participation & Partnership
  - David Seo, MD - BioMedical Informatics
  - Olveen Carrasquillo, MD, MPH & Erin Kobetz, PhD, MPH - Community Engagement & Cultural Diversity
  - Alessia Fornoni MD, PhD - Novel Clinical & Translational Methods, Technologies, & Resources

- Miami Center for AIDS Research (CFAR) ~$6.5M - Miami CFAR is the first NIH-funded AIDS research center in Florida
  - Margaret Fischl, MD, FACP & Mario Stevenson, PhD – Center Directors & Clinical Sciences Core
  - Allan E. Rodriguez, MD, Sonjia Kenya, PhD, & Michael A. Kolber, MD, PhD – Behavioral/Social Science & Community Outreach
  - Maria Alcaide, Hector Bolivar, Susanne Doblecki-Lewis
INTER-INSTITUTIONAL ENGAGEMENT

• U54 -Center of Excellence in Precision Medicine and Population Health - $11.5M
  • Roy E. Weiss, MD, PhD – PI
    • Combined with Vanderbilt and Meharry
• U01 – South Florida Center for Reducing Health Disparities - $2.5M
  • Olveen Carrasquillo, MD, MPH – PI
  • Erin Kobetz, PhD – PI
• U01 – Miami Women’s Interagency HIV Study - $7.4M
  • Margaret Fischl, MD
    • Combined with Columbia University
EUGENE SAYFIE DOM RESEARCH DAY 2017

- Abstract submissions increased from 160 in FY16 to 170
- Guest Speaker - Mark Gladwin, MD from the University of Pittsburgh
FY18 RESEARCH GOALS

• Support renewal of CTSI
• Increase the number of clinical trials in all Divisions
• Establish translational research related to quality measures in ICU settings across UHealth and JMH
• Precision Medicine grant opportunities
• DREAM: Every patient’s DNA biobanked in DOM
“Quit school? Quit school? You wanna end up like your father—a career lab rat?”
Chief Medical Residents

2016-17

Andrew Calzadilla, Elizabeth Vilches, Rhaderson Nascimento, Ana Berbel, Rafael “Quique” Hernandez, Aymara Fernandez, Andrew Elden, Ann Vu

2017-18

Erik Kimble, Melissa Vitolo, Daniel Watford, Samantha Gonzalez, Jonatan Nunez, Nathalie Pena, Carlos Diaz

Not Pictured Praful Tewari
RESIDENCY MATCH 2016

- 38 categorical interns
  - 7 UM Students
  - 1 AOA
  - 2 Gold Humanism Honor Society
  - 63% URM
  - 4 from top 25 medical schools

Antonoia Eyssallenne
JMH Medicine-Pediatrics

- 5 categorical interns
  - 1 UM Students
  - 2 Gold Humanism Honor Society
  - 60% URM
  - 1 from top 25 medical schools

- 9 preliminary interns
  - 2 UM students
  - 1 AOA
  - 1 Gold Humanism Honor Society
  - 55% URM
  - 1 from top 25 medical schools

- 9 preliminary interns
  - 2 UM students
  - 1 AOA
  - 1 Gold Humanism Honor Society
  - 55% URM
  - 1 from top 25 medical schools

Stuart Bagatell
JFK

Budd Williams
Holy Cross
TEACHING HONORS

George Paff Teaching Awards

Class of 2019
Warren Kupin, MD - Mathias Salathe, MD - Dan Sussman, MD

Class of 2018
Minh Hoang, MD

Class of 2017
Amar Deshpande, MD

Education Award

Nephrology – Warren Kupin, MD
Best Preclerkship Module
FY18 EDUCATION GOALS

• Further improve board pass rate (GME) (3 yr avg = 77%)
• Implement faculty development for peer to peer observation of teaching (GME and UME)
• Review all UME module evaluations
• Design and implement Hospital Administrative Pathway
“A word of advice, Durk: It’s the Mesolithic. We’ve domesticated the dog, we’re using stone tools, and no one’s *naked* anymore.”
FINANCIAL OVERVIEW

- Revenue: Grant Revenue increased by 15% ($2.8M Direct & $1M Indirect)
- Hospital Support: increased by 16%, $3.5M
- Taxes: Change in School’s tax structure reduced Departmental taxes by 28%, $3.7M
ALEJANDRO CAICEDO, PhD
ALEJANDRO CAICEDO, PhD

![Image of tissue samples and bar graph showing BrdU^+Ins^+ cell ratio with young and old donors, marked with stars for statistical significance.](image-url)
Margaret Fischl, MD, FACP

PROJECTS
Active
• Miami Womens Interagency HIV Study WIHS (PLOS One Bacterial Vaginosis and loss of GD T cells)
• Miami HIV/AIDS Clinical Therapeutic and Vaccine Trial Unit

Finished
• AIDS ASSOCIATED MALIGNANCIES CLINICAL TRIALS
• THERAPY WITH A TAT ANTAGONIST FOR KAPOSI'S SARCOMA
• HETEROSEXUAL TRANSMISSION OF HIV
• ESTABLISHMENT OF AIDS TREATMENT EVALUATION UNITS
• HETEROSEXUAL AND HOUSEHOLD TRANSMISSION OF HTLV-III
DNA vaccine to prevent ZIKA infection

- NIH VRC developed a plasmid ZIKAV DNA vaccine
- Zika vaccine includes a plasmid engineered to contain genes that code for pre-membrane, envelop proteins of the Zika virus
- As a DNA vaccine does not contain infectious material, does not result in Zika infection (no viral shedding)
- Injected into arm muscle, cells read the genes to make Zika virus proteins, which self-assemble into virus-like particles
- Recipients develop neutralizing antibodies and T cells to these particles for protective immunity
Accredited CF center (total now 125 adult patients)
Interdisciplinary team with social worker, ARNP, nutritionist, respiratory therapist
Close collaborations with GI and endocrine

Outreach and involvement
Parents and patient day October each year with pediatrics
Matthias Salathe is member of the CFF Center Committee
Steering committee of TDN
Adherence Committee
Local CFF Board
MATTHIAS SALATHE, MD – CYSTIC FIBROSIS CENTER

CFTR Classes of Mutations

<table>
<thead>
<tr>
<th>Class</th>
<th>No synthesis</th>
<th>Block in processing</th>
<th>Block in regulation</th>
<th>Altered conductance</th>
<th>Reduced synthesis</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>G542X</td>
<td>F508del</td>
<td>G551D</td>
<td>R117H</td>
<td>3849+10kbC→T</td>
</tr>
<tr>
<td>II</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>III</td>
<td></td>
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<td>IV</td>
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<td>A455E</td>
</tr>
</tbody>
</table>

FUNDING

• Funding via CFF and NIH (direct costs)
  – CFF basics science grant: $100,000 yearly
  – CFFT clinical award: $350,000 yearly
  – NIH translational science grant: $460,000 yearly
  – TDN award: $142,000 yearly
  – Protected PI for TDN award: $23,000 yearly

  – Total: $1,075,000 yearly

• Income from Clinical Trials
  – Estimated: $300,000 yearly
ANATEVKA vs MIAMI

Milking Cow is Old and won’t produce milk:
Hospital Infrastructure is falling apart

Communism is running wild:
Political nightmare with reimbursement

Tradition is disappearing:
Formal Academic Depts are an anachronism

Children grow up and leave home:
The best faculty may decide to go elsewhere
FUTURE DIRECTIONS

- Value Based Care vs Volume Care
- Single License
- Community Expansion (Aventura, beyond)
- Compensate & Incentivize Faculty
- Optimize clinical and translational research support and resources.
SCHALLY RESEARCH AWARD

2015
Joyce M. Slingerland, MD, PhD & Priyamvada Rai, PhD

2016
Erin Kobetz, PhD, MPH & Olveen Carrasquillo, MD, MPH
SCHALLY RESEARCH AWARD 2017

Ronan Swords, MD

Mario Stevenson, PhD
DISTINGUISHED CLINICIAN AWARD

2015
Ronald Goldberg, MD & Elio Donna, MD

2016
Maria T. Abreu, MD & Gustavo Fernandez, MD, MBA
DISTINGUISHED CLINICIAN AWARD 2017

Alexandre Abreu, MD

Jamie Barkin, MD
DIVERSITY AWARD

2015
Stephen Symes, MD

2016
Eduardo de Marchena, MD
DIVERSITY AWARD 2017

Lilian Abbo, MD
DISTINGUISHED EDUCATOR AWARD

2015
Larry Young, MD &
Mark Gelbard, MD

2016
Stephen Symes, MD &
James Hoffman, MD
DISTINGUISHED EDUCATOR AWARD 2017

Maureen Lowery, MD
BARKIN/ROGERS OUTSTANDING MENTOR AWARD

2015
Barry Materson, MD, MBA

2016
Marc E. Lippman, MD
BARKIN/ROGERS OUTSTANDING MENTOR AWARD 2017

Joseph Rosenblatt, MD
STATE OF THE DEPARTMENT ADDRESS
Department of Medicine - 2017

Dr. Roy E. Weiss, MD, PhD
Chairman

June 7, 2017 | Lois Pope Auditorium