The UA Department of Medicine hosted its final DOM Research Seminar of 2017 with Fariba Donovan, MD, PhD, on “Delays in Diagnosis of Coccidioidomycosis in Tucson,” and Jason X.-J. Yuan, MD, PhD, on “Translational Research on Pulmonary Hypertension.” View the video here. Learn more about the lecture series here.
Presentation Categories:
1. Primary pulmonary infection or related illnesses (e.g., pneumonia, sepsis)
2. Cystic fibrosis-related disease (CF)
3. Chronic pulmonary infection
4. Asymptomatic pulmonary nodules

Results:
- 360 charts
- 288 (80%) excluded (no evidence of infection)
- 72 (20%) included
- Agreements between two reviewers: 98%
- 91% change in 90 days

Status at Diagnosis

Delays in diagnosis in each category

<table>
<thead>
<tr>
<th>Presentation</th>
<th>Total</th>
<th>N (95%)</th>
<th>Ambulatory</th>
<th>N (95%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute</td>
<td>87</td>
<td>15 (5.7%)</td>
<td>72 (31-39)</td>
<td></td>
</tr>
<tr>
<td>Disseminated</td>
<td>13</td>
<td>11 (8.5%)</td>
<td>2 (0.8%)</td>
<td>27 (11-199)</td>
</tr>
<tr>
<td>Chronic</td>
<td>21</td>
<td>14 (66%)</td>
<td>7 (33%)</td>
<td>38 (15-140)</td>
</tr>
<tr>
<td>Nodule</td>
<td>21</td>
<td>14 (66%)</td>
<td>7 (33%)</td>
<td>38 (15-140)</td>
</tr>
</tbody>
</table>
Endothelial-to-Mesenchymal Transition (EndMT)

- The growth and proliferative rate of normal pulmonary arterial and intravascular endothelial cells is slow, whereas fibroblasts and myofibroblasts grow/proliferate very fast.

- Endothelial cells can undergo EndMT to convert to non-endothelial (myofibroblastic. The EC-derived myofibroblasts may contribute to non-endothelial pulmonary vascular lesions in patients with IPAH.

EndMT is increased in lung EC from IPAH patients
Photos courtesy of David Mogollón, Communications Coordinator, UA Department of Medicine, (520) 626-1137 or dmogollon@deptofmed.arizona.edu