13 Forums and Eleven Years …

1. AMCP Dossiers: Useful for Decision Making or Not? A Debate
2. Biologics: Drawing (or Crossing) the line of Cost vs. Benefit: A Case in Oncology
3. Quality Adjusted Life Years (QALY’s) for Decision Making: Views from Canada & the US
4. Using Large Databases to Inform Decision Making: Experience in Three Health Care Systems
5. Real World Data for Decision Making: Moving Beyond Clinical Trials
6. Pharmacoeconomics of Pharmacogenomics
7. Pharmacoeconomics & Pricing: Now & After Health Care Reform
8. What is the Business Case for Quality Improvement Initiatives?
10. Biosimilars: Challenges and Opportunities for All.
11. Patient Reported Outcomes: Useful for Whom?

13. The New World of Biosimilars in the U.S. - Current Challenges to Inform Future Directions
Forum Objectives

- Discuss commonly encountered obstacles to conducting or utilizing results of PE studies for decision making
- Explore solutions from various perspectives
  - Managed Care
  - Government
  - Pharmaceutical/Biotech Firms
  - Medical Centers
  - Academia
- Create an environment & foundation to foster larger PE/Outcomes Research Interest Group
<table>
<thead>
<tr>
<th>Steering Committee</th>
<th>Welcome “Trainees”</th>
</tr>
</thead>
</table>
| **Michael S. Broder MD, MSHS**  
Partnership for Health Analytic Research | **Charles Daniels, RPh, PhD**  
UCSD Health Department of Pharmacy |
| **Jan D. Hirsch, RPh, PhD**  
UCSD, Skaggs School of Pharmacy & Pharmaceutical Sciences | **Mirta Millares, PharmD, FCSHP, FASHP**  
Kaiser Permanente – CA Region |
| **Anthony P. Morreale, Pharm.D., MBA, BCPS**  
PBM Services, Department of Veterans Affairs | **Michael Pollock**  
PPD |
| **Robert Schoenhaus, PharmD**  
Sharp HealthCare |
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The New World of Biosimilars in the U.S.
Current Challenges to Inform Future Directions
Quiz Time!

Smart Phones Down

Laptops & Tablets Closed
Top 5 Sci-Fi Drugs:
- Dune
- The Spice
- Melange

Top 10 Most Important Drugs:
- Cyclosporine

7 Most Famous TV Doctors of All Time:

Pharma Trivia:
- Cyclosporine discovery: travel policy of “digging on location”
Biosimilars of the Animal Kingdom

http://listverse.com/2013/01/26/10-pairs-of-commonly-confused-animals/
### Which is Which?

<table>
<thead>
<tr>
<th></th>
<th><strong>Asian Elephant</strong></th>
<th><strong>African Elephant</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>2 head domes</td>
<td></td>
<td>1 head dome</td>
</tr>
<tr>
<td>Small ear</td>
<td></td>
<td>Large ear</td>
</tr>
<tr>
<td>1 finger end of trunk</td>
<td>1 finger end of trunk</td>
<td>2 fingers end of trunk</td>
</tr>
</tbody>
</table>

### Which is Which?

<table>
<thead>
<tr>
<th>Alligator</th>
<th>Crocodile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshwater</td>
<td>Saltwater</td>
</tr>
<tr>
<td>Golf course visitor</td>
<td>“Happy” to see you</td>
</tr>
<tr>
<td>V-shaped snout</td>
<td>Captain Hook pursuer</td>
</tr>
</tbody>
</table>

http://listverse.com/2013/01/26/10-pairs-of-commonly-confused-animals/
## Which is Which?

<table>
<thead>
<tr>
<th>Cheetah</th>
<th>Leopard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tan fur</td>
<td>Yellow fur</td>
</tr>
<tr>
<td>Beware in Day</td>
<td>Beware at Night… Drags prey to tree top</td>
</tr>
<tr>
<td>Spots: <em>SOLID BLACK</em></td>
<td>Spots: <em>BROKEN RING PATTERN</em></td>
</tr>
</tbody>
</table>

[Image of Cheetah and Leopard]
## Which is Which?

<table>
<thead>
<tr>
<th>Toad</th>
<th>Frog</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 species</td>
<td>400 species</td>
</tr>
<tr>
<td>Short walking legs</td>
<td>Long leaping legs</td>
</tr>
<tr>
<td>Dry skin</td>
<td>Slimy skin</td>
</tr>
<tr>
<td>Bonus feature: neurotoxin secreting glands</td>
<td>Bonus feature: certain body parts delicacies of French and Chinese cuisine</td>
</tr>
</tbody>
</table>

Toad

![Toad Image](image1)

Frog

![Frog Image](image2)
Which is Which?

More after the Break!
Biosimilars: Are we there yet?
Charles Daniels, PhD
Pharmacist-in-Chief, UCSD Health

Stakeholder Perspectives

Pharmaceutical Manufacturer – Innovator and Biosimilar Products
Scott Foraker, JD
Vice President and General Manager, Biosimilars, Amgen

Health Care System
Ambrose Carrejo, PharmD,
Director, National Pharmaceutical Contracting, Kaiser Permanente

Health Plan
Mark Cziraky, PharmD
VP Research HealthCore Inc, an Anthem Company

Panel Q & A/Discussion  All
### Which is Which?

<table>
<thead>
<tr>
<th>Llama</th>
<th>Alpaca</th>
</tr>
</thead>
<tbody>
<tr>
<td>200-350 pounds</td>
<td>100-175 pounds</td>
</tr>
<tr>
<td>Long banana-shaped ears</td>
<td>Short spear-shaped ears</td>
</tr>
<tr>
<td>Guard herds of “B”</td>
<td>Sweater worthy</td>
</tr>
</tbody>
</table>

![Llama](image1.png) ![Alpaca](image2.png)

http://listverse.com/2013/01/26/10-pairs-of-commonly-confused-animals/
Which is Which?

<table>
<thead>
<tr>
<th>Sea Lion</th>
<th>Seal</th>
</tr>
</thead>
<tbody>
<tr>
<td>“walk” and “run” on land</td>
<td>“Shimmy” like a caterpillar on land</td>
</tr>
<tr>
<td>Congregate in groups called rafts</td>
<td>Solitary</td>
</tr>
<tr>
<td>Noisy barkers</td>
<td>Special Ops Force</td>
</tr>
</tbody>
</table>

http://listverse.com/2013/01/26/10-pairs-of-commonly-confused-animals/
<table>
<thead>
<tr>
<th></th>
<th>Donkey</th>
<th>Mule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female called</td>
<td>Female called a Jenny</td>
<td>Female called a Molly</td>
</tr>
<tr>
<td>Tail of a cow</td>
<td>Tail of a horse</td>
<td></td>
</tr>
<tr>
<td>62 chromosomes</td>
<td>63 chromosomes</td>
<td></td>
</tr>
</tbody>
</table>

http://listverse.com/2013/01/26/10-pairs-of-commonly-confused-animals/
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