New Research Series

Why do we do research?

Robert J. Weber PharmD, MS BCPS
Senior Director of Pharmacy

Debbie Goff PharmD, FCCP
Clinical Associate Professor
Infectious Diseases Specialist

Why do Research?

• Strategic plan focus – enhances professional and personal reputation
• Builds problem-solving skills
Tips

• Simplicity and clarity – 1-2 aims
• Listen to your PPA!
• Keep up on deadlines
• Have Fun

Research Series

• Enhanced based on your feedback
• Longitudinal lectures; same-discipline working groups
• Goal is for most of projects to be submitted for peer review by June 2013

New Research Series

Debbie Goff PharmD, FCCP
Clinical Associate Professor
Infectious Diseases Specialist

Background
Practiced at Grant Medical Center 7 years
Internal Medicine/Family Practice, Oncology
Practice at OSUWMC for 23 years
Infectious Diseases/ Antimicrobial Stewardship Research Program
Why do Research/Publish?
• Residents
  It’s part of the residency requirement

• Faculty
  It’s in my P3

Why do Research?
• Improve patient care at OSU
• Seek answers to clinical questions
• Impact patient care around the world

Impact the World? Really?
Dr Bartlett’s Game Changers 2011
ICAAC International ID Conference
Resident Research Project
• OSUWMC
• 1,235 beds high volume patient census
• provides a unique patient population ICU, BMT, SOT, Cardiac, ID, ED
• knowledgeable clinicians to guide you

Teams of Experts
• Infectious Diseases
  Debbie, Karri, Erica, Jeremy
• Ross Heart Hospital
  Kari, Danielle, Erik, Pam, Mike, Kevin
• Solid Organ Transplant
  Holli, April, Amanda
• ICU
  Tony, Claire, Sara, Karri, Lindsey, Bruce, Debbie, Joy, Kristen

Project Selection
The Process
• Research ideas presented to clinical staff and administration
• Peer review feedback provided
• Best project ideas that can be done in a year were approved
Project Selection

The Process

• **PGY2**
  Meet with your Program Director
  Select project by July 20th

• **PGY1/Masters Residents**
  1. July 25th 3-4pm Prior 400 projects presented to PGY1 residents
  2. rank your top 3
  3. project assignments announced Aug 3rd

Why Publish?

• Pay it forward
• Give back to your profession
• Impact patient care around the world not just patient care within the walls of OSUWMC

Publication Rate of Resident Projects

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean time to appear in journal print</td>
<td>24 months</td>
</tr>
<tr>
<td>Pharmacy journal</td>
<td>70%</td>
</tr>
<tr>
<td>Medical Journal</td>
<td>30%</td>
</tr>
<tr>
<td>Resident 1st author</td>
<td>50%</td>
</tr>
<tr>
<td>2nd author elsewhere</td>
<td>50%</td>
</tr>
</tbody>
</table>

Ref: Olson K. AJHP 2012;69:59-62
Why Publish?
Resident Testimonies

- “Help other clinicians learn from our experience
- Make a meaningful contribution to the medical literature
- Gain the skill, knowledge, and experience to do not just the research project but also learn the publication process
- Develop the confidence to do it again and again and again!”

Jason Schafer PharmD, BCPS, AAHIVE
Assistant Professor Jefferson School of Pharmacy Philadelphia currently completing a Masters in Public Health


Reprint Request from Greece, Brasil, Portugal, Israel

Resident Testimony

- “Without having a research background the thought of completing a project and publishing it in 1 year was very intimidating
- The preceptors allowed a novice researcher to take a spark of an idea from a small group discussion to a published paper.”
Chris Jankowski PharmD
A Stewardship Approach to Combating Multidrug-Resistant Acinetobacter baumannii Infections With Minocycline
Christopher J. Jankowski, PharmD,* Juan Miguel Balada-Llanet, PharmD, PhD, D(ABMM),† Mitchell Realiniuk, MCT, Poets Pacheck, PhD, D(ABMM), and John A. Geff, PharmD, FCCP*  
Despite an N=5 his paper was quoted At the International ID Congress Bangkok, Thailand June 2012

Jordan Wong PharmD
most recent ID resident
• Expect to have at least 20 drafts before you actually submit the manuscript
• When you think you’re done, you’re not!
• Know your main objectives and primary/secondary outcomes Stay FOCUSED
• Data collection: this is where the fun/frustration begins!
• Reference list: Use Endnote!!!!

Publication Process
• Submit the manuscript
• Editor reviews the manuscript rejection notice in 24 hours - 1 week  
  Ask for reviewers 4-6 weeks  
  Reviewers usually get 4-6 weeks to finish the review
• You receive reviewers comments  
  Accept, accept with revisions, reject
• You get 4-6 weeks to respond
• Editor decides to accept, it now goes into production (8-12 weeks)
• Galley proof (48 hours to return)
• Final paper published (1-2 year)
Faculty Testimony

Karri Bauer PharmD, BCPS

• First study to show rapid diagnostic test for staph bacteremia with ID PharmD intervention decreased time to effective therapy and costs
• 1/10 papers selected by CID for a special edition translated in Italian
• Dr Bartlett keynote speaker at ICAAC international conference selected her paper as a “Game Changer” in 2011
• “I selected the Ohio State report because it is probably more relevant and represents the rational use of this technology in daily practice”.

Karri Bauer PharmD BCPS

• “My research can affect practice around the world
• I had an enormous sense of accomplishment”
Holli Winters PharmD, BCPS

- Her 1st research project selected as a platform presentation at the International Transplant Congress
- 1st manuscript submission rejected
- 2nd submission: Incorporated Rupal’s literature review submitted to different journal

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Holli Winters & Rupal Parbhoo
Ann Pharmacother March 2011 45:309-316

Research Report
TRANSPLANTATION: Extended-Spectrum β-Lactamase-Producing Bacterial Infections in Adult Solid Organ Transplant Recipients
Holli A Winters, Rupal K Parbhoo, Jason J Schafer, and Debra A Goff

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Publication Failure

- Failure is like fire
  - It can burn you up and it’s all over
  - It can warm you up so you can keep on going
Research and Publication is a Journey

<table>
<thead>
<tr>
<th>Journey</th>
<th>Research</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select the destination</td>
<td>Do a literature review</td>
</tr>
<tr>
<td>Trip advisor app</td>
<td>PubMed</td>
</tr>
<tr>
<td>Travel Magazines</td>
<td>Google</td>
</tr>
<tr>
<td>National Geographic</td>
<td>Recent studies</td>
</tr>
<tr>
<td>Explorer</td>
<td>reference lists</td>
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**Journey**

- You’re on the vacation
- Have fun!

**Research**

- You’re doing the data collection
- Do you have plan B just in case?
- Your N is too small
- the IRB approval took way longer than expected
- Your results are not as expected

**Journey**

- Begin packing
- select your clothes

**Research**

- Begin paper work
- IRB submission

**Journey**

- Do you have plan B just in case?
- It rains all day
- You miss your flight
- Your passport is stolen

**Research**

- Your N is too small
- the IRB approval took way longer than expected
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Research and Publication is a Journey

<table>
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<tbody>
<tr>
<td>Create a lasting memory</td>
<td>Publish in a peer reviewed journal</td>
</tr>
<tr>
<td>photo album</td>
<td>Instagram app</td>
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<tr>
<td></td>
<td>iBook</td>
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New Research Series

- Learn from OSU experts who have published in the medical literature
- July 18th 3-4pm Prior 400
  Karri Bauer and Danielle Blais
- August 2nd
  Claire Murphy and Dr. Cook
- August
  Tony Gerlach and Jessica West

Special Guests "Larry King Live" Format

- Mike Rybak PharmD, MPH., FCCP August 9th
  Section Editor of Pharmacotherapy
  over 500 publications, author of the vancomycin national guidelines, founder of SIDP, MAD-ID, Director of the Anti-Infective research Lab Wayne State
- Tom Lodise PharmD, BCPS August 30th
  Named 2008 'Young Investigator of the Year' by the Society of Infectious Diseases Pharmacists (SIDP).
- Dave Nicolau PharmD, FCCP Fall
  over 500 publications, Director of the Hartford Antiinfective Research Lab, author of the "Nicolau nomogram" for aminoglycosides
- Milap Nahata PharmD, FCCP
  Editor Annals of Pharmacotherapy
Faculty Lectures

- Residents encouraged to attend
- Topics to discuss
- How to find the right journal match
  - Impact factor, PubMed, page charges, publishing fees
- How to write the letter to the editor
- Ten tips to make sure your paper is rejected
- What is the editor looking for?
- How to respond to reviewer comments

Conclusion

- Are you ready for the journey?