Taking the LEAD

IPPE/APPE Rotation Pearls

Lainie Linafelter & Gina Luchen
PharmD Candidates 2017
University of Kansas School of Pharmacy
Objectives

• Discuss tips for preparing for your rotation
• Introduce tools and tips that may be useful during rotation
• Review proper techniques for responding to drug information questions, completing journal clubs, and preparing presentations
Before the Rotation

Prepare as much as possible

✓ Ask what you can review:
  ✓ Guidelines
  ✓ Institution/Location-Specific Policies

✓ Ask what you need to bring:
  ✓ Laptops
  ✓ Notes
  ✓ References

✓ Ask where and when to meet on the 1st day:
  ✓ BE EARLY…especially if on a unit with rounding services

✓ Ask about the dress code:
  ✓ Scrubs vs business casual vs business professional

✓ Prepare personal goals for each rotation

✓ Read description of rotation site on RxPreceptor.
Topics to Review Prior to Rotation

- **Anticoagulants**
  - Warfarin
  - Enoxaparin (Lovenox)
  - Rivaroxaban, Apixaban, Dabigatran

- **Common disease states**
  - Heart Failure
  - Hypertension
  - Hyperlipidemia
  - CAP / HAP / VAP
  - COPD/Asthma
  - Infectious disease notes → susceptibility charts for antibiotics
  - Relevant guidelines based on your specific unit / rotation

- During the beginning/middle of your rotation, ensure you are following and completing relevant field encounters… don’t leave all of them for the spring!
Useful Items for Your White Coat Pocket

- Antibiotic coverage charts or pocket guides (Sanford Guide)
- Useful usernames and passwords for KU-SOP DI resources
- Calculator (don’t rely on your phone)
- Pharmacy / preceptor phone numbers
- Mini pocket notebook
- BLACK pens
Relevant Equations to Keep in Mind

✓ Creatinine Clearance (CrCl)
✓ Ideal Body Weight (IBW)
✓ Adjusted Body Weight (AdjBW)
✓ Volume of Distribution (Vd)
✓ Metric conversions
  ✓ Inches → centimeters
  ✓ Pounds → kilograms
✓ Corrected Calcium

\[
eC_{cr} = \frac{(140 \times \text{Age}) \times \text{Mass (in kilograms)} \times [0.85 \text{ if Female}]}{72 \times \text{Serum Creatinine (in mg/dL)}}
\]

<table>
<thead>
<tr>
<th>Length</th>
<th>Weight</th>
<th>Volume</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 inches = 1 ft</td>
<td>16 ounces = 1 lb</td>
<td>2 cups = 1 pt</td>
<td>60 seconds = 1 min</td>
</tr>
<tr>
<td>3 feet = 1 yd</td>
<td>2000 lbs = 1 ton</td>
<td>2 pt = 1 qt</td>
<td>60 min = 1 hr</td>
</tr>
<tr>
<td>5,280 ft = 1 mi</td>
<td></td>
<td>4 qt = 1 gal</td>
<td>24 hrs = 1 day</td>
</tr>
<tr>
<td>1,760 yd = 1 mi</td>
<td></td>
<td></td>
<td>7 days = 1 wk</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>52 wk = 1 yr</td>
</tr>
</tbody>
</table>
What to Ask as You Begin Your Rotation

- What is within the pharmacists’ responsibilities?
  - Dosing adjustments?
  - Home med to formulary conversions?
  - IV to PO switches?
  - Medication discontinuation?
  - Medication histories / discharge counseling?

- What can students do?
  - Medication/discharge counseling?
  - Medication reconciliation?
  - Access to specific aspects of the patient chart?
  - Progress notes / acuities or task lists / education documentation?
  - Special projects?

- Hospital protocols on antibiotic / anticoagulant dosing or monitoring?
Useful Tools

- GlobalRPh
- LexiComp
  - LexiCalculator
- Clinical Pharmacology
- Micromedex
- GoodRx → practical for medication price estimates
- UptoDate → good start for disease state information
- CredibleMeds → QTc prolongation guide
- RxPreceptor Mobile App
- FRAX Score Calculator
- ASCVD Risk Calculator
- ePSS Preventative Screenings App
How to Process Charts

☑ Refer to your preceptor for individual styles and pointers on your unit

☑ If no specific instructions provided make sure to look at:
  ☑ Notes → H & P / Admission note
  ☑ Labs → BMP and CBC w/ differential
  ☑ Vitals → BP, HR, RR, Temp, Height, Weight
  ☑ Inputs and Outputs (I’s & O’s)
  ☑ Microbiology results / pending cultures
  ☑ Medication List
Drug Information Questions

- Confirmation from two sources
- Don’t rely solely on class notes
- Include up-to-date guideline proof
- Don’t forget print-form books available in the hospital/pharmacy
- Utilize the primary resources cited within tertiary resources
- Take advantage of the institution/hospital library
  - Medical librarians often can provide very useful primary resources
Guidelines

No results were found for Stroke.

Please check the spelling of your query or try a different query. For more information on searching, see Search Tips.
IDSA Practice Guidelines

Clinical Practice Guidelines by Category

Antimicrobial Agent Use
Infections by Organ System
Infections by Organism
Other Guidelines
Retired Guidelines
Translations of IDSA Practice Guidelines
Mobile Practice Guidelines
Pocketcards

Guideline Methodology and Other Resources

For Patients & Public

IDSA is broadening its international reach by expanding knowledge and improving patient care by making several of its clinical practice guidelines available in languages other than English. Volunteer members of the IDSA Translation Bureau review all translations to ensure the accuracy and quality of the translation.

Mobile Practice Guidelines
The IDSA Practice Guidelines are available in pocketcard format for iOS and Android devices.

Pocketcards
Purchase a convenient, pocket-sized summary of an IDSA Practice Guideline.
Other Resources

- Use references at the end of your class notes to guide your search
- Ensure the information you are using is the most recent/up to date
- Consult your preceptor on appropriate guidelines use
- Hospital specific policies/protocols
  - Learn how to access them
  - Learn how they differ from clinical guidelines
- Rx Preceptor templates
  - Journal Club
  - New Drug Evaluation
Journal Clubs

✓ Article title
✓ Study purpose
✓ Literature Justification
✓ Endpoints: Primary and Secondary
✓ Study Design
  ✓ Type of study
  ✓ Subjects and randomization
  ✓ Questionnaire or study structure
✓ Monitoring
✓ Inclusions/Exclusions
✓ Sample of population

✓ Ethics
✓ Analysis and data
✓ Outcomes
✓ Tolerability / Safety
✓ Conclusion
✓ Limitations
✓ Clinical Importance
  ✓ Current guidelines
  ✓ Place in therapy
  ✓ Financial and safety considerations
Journal Club App

✓ $6.99 app
✓ Provides great, up-to-date landmark medical trials
✓ Breaks down key points
✓ Suggests specific points that should be included in journal club summaries
✓ Quick, easy access to trials/studies
Presentations

✓ Patient Case
  ✓ Subjective
  ✓ Objective
    ✓ Relevant labs NOT all labs
  ✓ Assessment
  ✓ Plan
  ✓ Present the facts as they happened
  ✓ Evaluate the plan based on guidelines NOT opinions

✓ Literature Review
  ✓ Similar to a journal club

✓ Topic Presentations
  ✓ Use visuals when explain pathophysiology
  ✓ Focus on medications
  ✓ Know alternative therapies and relevant literature

✓ Topic Discussions
  ✓ Formal or informal
  ✓ Discussions with or without handouts
Presentations Continued…

- Clarify length, time, structure and expectations with preceptor
  - The content, tone, audience and detail may vary by the site
- Specify if a rough draft needs to be submitted ahead of the presentation
- ALWAYS save your work with your name on each page as a PDF
- Print ahead of time (a day prior if possible)
  - Specify printing preferences with preceptor
References to Use

✔ Unless otherwise specified use AMA format:

✔ NEVER cite:
 ✔ Tertiary resources (LexiComp, UptoDate, Micromedex)
 ✔ Non-scientific resources
 ✔ Newspaper articles or opinion based literature