Adverse Drug Reactions: The Evidence and the Controversies

Education about Risk Mitigation: Are we doing enough?

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My Charge:
“What do we need to properly educate students and practitioners about a culture of therapeutic safety?”

Before answering what we need...

What are we doing to improve medical knowledge of adverse drug reactions, and safe prescribing and monitoring?

• Medical Students?
• Residents?
• Dermatologists?

Disclosure

• I have no relevant conflicts of interest with pharma or device manufacturers regarding this topic

Do you interact with / teach medical students in your dermatology clinics?

1. Yes
2. No
3. I am a medical student
4. Not applicable
Medical Student Learning

Learning module: Drug reactions

Goals and objectives
The purpose of this module is to help medical students develop a clinical approach to the evaluation and initial management of patients who present with cutaneous drug eruptions.

After completing the module, the learner should be able to:
- Describe the morphology of common drug eruptions.
- List key features of drug-induced hypersensitivity syndrome (DHS), Stevens-Johnson syndrome (SJS) and toxic epidermal necrolysis (TEN).
- Describe initial steps in the management of drug eruptions.
- Determine when to refer a patient with a drug eruption to a dermatologist.

Download the module
- Drug reactions — PowerPoint version (To open, click Read Only when prompted for a password)
- PDF version

Assess yourself
- Learn More

Do you interact with / teach dermatology residents in your dermatology clinics?
1. Yes
2. No
3. I am a resident
4. Not applicable

How would you rate the quality of your residency education in adverse drug cutaneous reactions?
1. Excellent
2. Good
3. Fair
4. Not-so-Good
5. Absent or near-absent

How would you rate the quality of your residency education in adverse reactions caused by derm medicines?
1. Excellent
2. Good
3. Fair
4. Not-so-Good
5. Absent or near-absent

Program Requirements

Residents must demonstrate competence in:
- the use of and indications/contraindications for topical/systemic pharmacologic therapies in all age groups
- risks and benefits of commonly used dermatologic therapies
- ...patients having ... dermatologic manifestations of systemic disease or therapy
- management of complex medical dermatologic conditions in both adults and children
- counsel patients regarding their disease and treatment options
- incorporate considerations of cost awareness and risk-benefit analysis
I finished training during the era of ACGME Residency Milestones

1. Yes
2. No
3. I don’t know what you are talking about

Milestone Language

- 28 Residency Subcompetencies in 6 Competency Domains
- One of the Milestone Subcompetencies (PC4) = Medical Treatment
- Over 20% involve medication safety, counseling, prescribing, monitoring or prevention of adverse events

Examples:

- Counsels...patients related to risks/benefits of treatment, treatment alternatives, and therapeutic plans (2)
- Identifies, in journal club or other educational venues, when new evidence, guidelines, or information should change...[therapy selection] (3)
- Usually able to select alternative medications for patients with...significant side effects from therapy (5)

Clinical Learning Environment Review (CLER)

- Patient Safety
  - PS Pathway 1: Reporting of adverse events, near misses/close calls, and unsafe conditions
  - PS Pathway 2: Education on patient safety
  - PS Pathway 3: Culture of safety
  - PS Pathway 4: Resident/fellow experience in patient safety investigations and follow-up
  - PS Pathway 7: Resident/fellow education and experience in disclosure of events

- Care Transitions
  - CT Pathway 5: Resident/fellow and faculty member engagement in communication between primary and consulting teams

During residency, did you attend specific educational sessions outside of your program didactics about adverse drug reactions?

1. Yes
2. No
3. I did not complete dermatology residency (derm allied provider, non-dermatology physician, etc)

Opportunities outside the Program for Residents

- AAD Annual Meeting
- AAD Essentials of Medical Dermatology Course
  - Residents only
  - *Relies on external funding to occur
- Introduction to Cutaneous Biology Course
  - residents only

How do you primarily obtain your education about adverse drug reactions currently?

1. CME Sessions at national meetings, like this
2. Drug Reaction Text review, as needed
3. Regularly read journal articles
4. Look up articles when I encounter these in practice
5. Other
Are you enrolled to receive the AAD’s Question of the Week for CME / MOC credits?

1. Yes
2. No, but I’m aware of this
3. No, I don’t know what you’re talking about

AAD Question of the Week

Have you participated in an American Board of Dermatology focused Practice Improvement Module for MOC?

1. Yes
2. I’m familiar, I need to, but No
3. I’m familiar, I don’t need to, so No
4. I have no idea what you’re referring to

Signing up for AAD QOW
https://www.aad.org/education/question-of-the-week

ABD focused Practice Improvement Modules
Table task 6: Complete at least 1 ABD-approved Practice Improvement activity every 5 years

1. Understand your practice
2. Assess your practice
3. Create your plan
4. Implement your practice

ABD’s Focused PI Modules

- Choosing a Step in the Skin Biopsy Pathway to Assess in Your Office
- Confirming correct safety glasses before commencing laser procedures
- Contraceptive education prior to starting birth control
- Early assessment and intervention for infantile hemangiomas
- Identification of body dysmorphic disorder in dermatology patients undergoing cosmetic treatments
- Importance of completing a delayed patch test reading

Completing a focused PI module

1. Read the activity description to determine if meaningful to your practice
2. Read recommended references
3. Perform initial Practice Assessment (chart review)
4. If your practice already in compliance, no further review is necessary.
5. If your practice not in compliance, make necessary changes to practice and repeat Practice Assessment (repeat chart review for new encounters after the intervention)
Evaluating the value of the module occurs at the conclusion (anonymous)

Relevance to Physician Performance and Individual Patient Outcomes
- 17/48 modules (35.4%) are related to drug safety and monitoring strategies
  - 98.3% report fPI Activity was RELEVANT to practice
  - 19.3% report improvement in care delivered
  - 21.1% report at least one patient experienced a better outcome as a result
  - 97.2% WOULD RECOMMEND these fPI modules to another dermatologist enrolled in MOC

In the past 3 years, have you completed a formal incident report in your practice due to a medication-related error or near miss?
1. Yes
2. I’m familiar how, but No
3. I’m not familiar how, so No
4. My practice doesn’t have a formal incident report system
5. I have no idea what you’re referring to

I have completed and returned a MedWatch report to the FDA in the past 10 years
1. Yes
2. No, I don’t know what this is
3. No, I know what this is, but couldn’t be sure the reaction was definitely from the drug I was suspecting
In Conclusion

- Education Resources exist to improve knowledge, competency, performance, and perhaps even patient outcomes
- Some freely available education on these subjects may be underutilized by you
- Sign up for AAD QOW
- Try a medication safety-related focused Practice Improvement module from ABD

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