

Wiki What?

Residency Information Management in the Age of Millennials

Amoreena Ranck Howell, MD, MSPH¹

Kristin Powell Reavis, MD¹

Jason Ramirez, MD¹

Eleni O'Donovan, MD, SM²

1. University of Maryland
Family Medicine Residency

2. National Family Medicine Residency
at Unity Health Care



DISCLOSURES

■ None



Upon completion of this session, participants should be able to...

1. List at least three advantages of a wiki compared with other forms of information management, i.e. note sharing programs.
2. Describe at least three different features of wiki platforms that are relevant for an individual program to consider when creating their own wiki site.
3. Create their own wiki site if desired.



AMERICAN ACADEMY OF FAMILY PHYSICIANS



As a resident (or student...or even faculty) in clinic, what types of information do you need?

Where do you go to find this information?

How long does it take to find good information?



AMERICAN ACADEMY OF FAMILY PHYSICIANS

TYPES OF INFORMATION

- Residency-specific administrative information
 - Policies & Procedures
 - Schedules, Leave
 - Rotations
- Relevant clinical references
 - Guidelines
 - Diagnosis and management algorithms
- Didactics
 - Lecture slides
 - Handouts
- Faculty Expertise



AMERICAN ACADEMY OF FAMILY PHYSICIANS

INFORMATION OVERLOAD...



DynaMed Plus

UpToDate®

ePOCRATES®



JAMA
THE JOURNAL OF THE
AMERICAN MEDICAL ASSOCIATION

Gmail

Microsoft Office
Outlook Web Access
Provided by Microsoft Exchange Server 2010



teamup

ASCP

AMERICAN ACADEMY OF FAMILY PHYSICIANS

INFORMATION PROBLEM

- How often do you feel you can find the clinic information you need quickly enough?
- <http://umdfammed.wikispaces.com/-/PDW2018/Team1/>

AMERICAN ACADEMY OF FAMILY PHYSICIANS

SOLUTION?

- Cork boards
- Email
- Google Docs
- Blackboard
- Evernote
- Website

Wiki!



AMERICAN ACADEMY OF FAMILY PHYSICIANS

WHAT IS A WIKI?

- A website that allows collaborative editing of its content and structure by its users



AMERICAN ACADEMY OF FAMILY PHYSICIANS

WIKI ADVANTAGES

- **Rapid access to information**, including during clinic
Any format of digital information/media
- **Delegates the responsibility** for maintaining such a broad level of information
- **Program-specific, “need to know” format** and can include hospital, clinic, and EMR-specific instructions
- **Changes to a page are unobtrusively tracked** automatically and easily reversed
- **QI and other collaborative projects can be easily managed**
- **Faculty development**
- **Accessible to non-tech-savvy people (everyone!)**

AMERICAN ACADEMY OF FAMILY PHYSICIANS

MARYLAND'S WIKI



The screenshot shows the homepage of the UMD Family Medicine Residency Wiki. The top navigation bar includes links for "UMDFamMed" and "SEARCH". Below the navigation are four icons: a smiley face, a document, a clipboard, and a speech bubble. The main content area features a "Welcome to the UMD Family Medicine Residency Wiki!" message. A sidebar on the left contains a "Family Medicine Phone Directory 2017-18" link. The right sidebar includes "What's New?" (link to most recently updated pages) and "FPI Readmission Data Survey" (link to add readmission patients to a shared list in Epic). A footer bar at the bottom is orange and reads "AMERICAN ACADEMY OF FAMILY PHYSICIANS".

CLINICAL REFERENCES

- Preventive Medicine
- Well Child Checks
- Asthma
- Diabetes
- Keeping Up (EBM Resources)
- Procedures



AMERICAN ACADEMY OF FAMILY PHYSICIANS

NON-CLINICAL REFERENCES

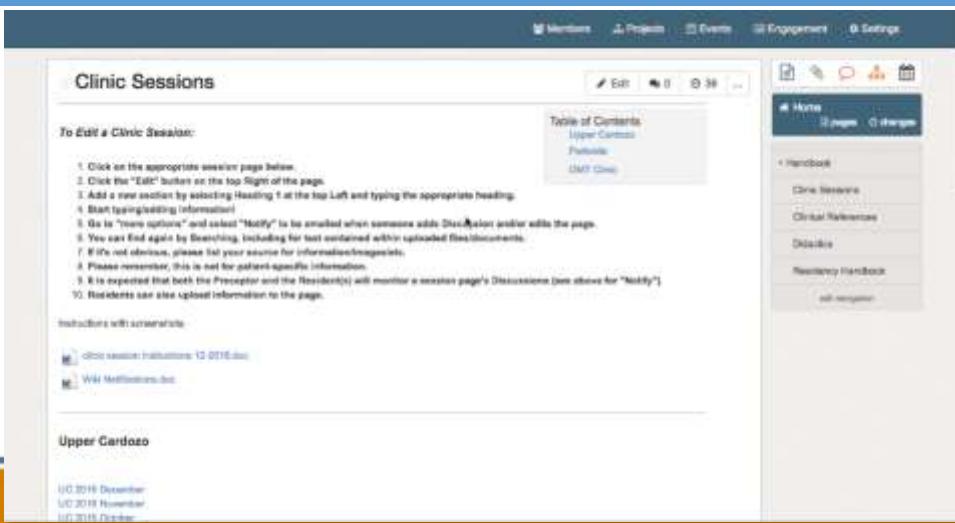
- Insurance Formularies
- Residency Handbook
 - Rotation Information
 - Clinic Policies
- Schedules
- Board Review & Didactics



- Billing & Coding
- EMR template information

AMERICAN ACADEMY OF FAMILY PHYSICIANS

FACULTY EXPERTISE: UNITY'S SOLUTION



The screenshot shows the Unity software interface. The top navigation bar includes links for Members, Projects, Events, Experiences, and Settings. The main content area is titled "Clinic Sessions" and contains the following text:

To Edit a Clinic Session:

1. Click on the appropriate session page below.
2. Click the "Edit" button on the top right of the page.
3. Add a new section by selecting Heading 1 at the top left and typing the appropriate heading.
4. Start typing/gathering information.
5. Go to "more options" and select "Notify" to be emailed when someone adds Discusision and/or edits the page.
6. You can find again by searching, including for text contained within uploaded files/documents.
7. If it's not obvious, please list your source for information/fragments.
8. Please remember, this is not patient-specific information.
9. It is expected that both the Preceptor and the Resident(s) will monitor a session page's Discusisions (see above for "Notify").
10. Residents can also upload information to the page.

Instructions with attachments:

- Clinic Session Instructions - 12-2016.doc
- Wiki Instructions.doc

Attachments:

- Upper Cardioto

Bottom left corner: UG 2018 December
UG 2018 November
UG 2018 October

Bottom right corner: PHYSICIANS

unitydcfmr Search

Members Projects Events Engagement Settings

Clinic Sessions

Buchholz

To Edit a Class

1. Click on the class name
2. Click the "Edit" button
3. Add a new slide
4. Start typing
5. Go to "File"
6. Yes or No
7. If it's not a slide
8. Please enter
9. It is expected
10. Requires

Rivas, Shirali

Date 3/15/2017

Latent TB infection in the United States

Rifampin is an oft-overlooked option for latent TB infection (LTBI), despite having lower risk of Grade 3/4 hepatotoxicity than INH (0.7% for rifampin vs. 3.8% with INH), and a lower discontinuation rate due to adverse events compared to INH in clinical trials (2.1% for rifampin vs. 3.7% for INH). Many patients at Upper Cardozo with latent TB infection prefer rifampin to INH when given the choice (even though it may make their urine and/or tears turn orange!).

I'm attaching a clinical practice review from NEJM in 2011 that has a great table comparing INH and rifampin courses for LTBI:

[NEJM 2011 latent TB infection treatment...](#)
Details Download 487 KB

Here is a link to Table 3 itself:

[Table 3 from NEJM 2011 article on LTBI tr...](#)
Details Download 247 KB

Gratuitous quote from Dr. Paul Farmer, as quoted by Tracy Kidder (emphasis mine):

"I think whenever a people has enormous resources, it is easy for them to call themselves democratic. I think of myself more than an American. **We belong to the nation of those who care for the sick.** Americans are lazy democrats, and it's

unitydcfmr Search

Members Projects Events Engagement Settings

Clinic Sessions

Buchholz

To Edit a Class

1. Click on the class name
2. Click the "Edit" button
3. Add a new slide
4. Start typing
5. Go to "File"
6. Yes or No
7. If it's not a slide
8. Please enter
9. It is expected
10. Requires

Instructions and Help

1. Click on the class name
2. Click the "Edit" button
3. Add a new slide
4. Start typing
5. Go to "File"
6. Yes or No
7. If it's not a slide
8. Please enter
9. It is expected
10. Requires

Upper Cardozo

1. Click on the class name
2. Click the "Edit" button
3. Add a new slide
4. Start typing
5. Go to "File"
6. Yes or No
7. If it's not a slide
8. Please enter
9. It is expected
10. Requires

clinical findings suggesting dacryocystocele (a bluish swelling of the skin overlying the lacrimal sac)

management:

- lacrimal sac massage and observation (moderate pressure downward over lacrimal sac for 1-2 minutes)
- if not resolved by 6-10 months of age, lacrimal duct probing is performed
- if purulent discharge and no other signs of infection, likely bacterial overgrowth in stagnant泪道, useful in controlling bacterial overgrowth



Image

nasolacrimal duct obstruction

AMERICAN FAMILY PHYSICIANS

unitydcfmr Search

Members Projects Events Engagement Settings

Clinic Sessions

To Edit a Clinic Session:

UC 12-7-15 AM

Residents: Sherrif, Jimenez
Preceptor: Huang

Patient and clinician handouts in Reproductive health (including Male optional):
<http://fmedi.org/patients.php#>
<http://www.reproductiveaccess.org/key-areas/contraception/>

Instructions:

Upper 1

Diabetes treatment: insulin and how to switch between different insulin

 [Insulina.pdf](#) [Details](#) [Download](#) 128 KB

 [how to switch insulin.pdf](#) [Details](#) [Download](#) 514 KB

Upper 1
Upper 1
Upper 1

[Add Discussion](#)

YSICIANS

unitydcfmr Search

Members Projects Events Engagement Settings

Clinic Sessions

To Edit a Clinic Session:

WJ 6-1-14 PM

Lawrence
Nivus, Halsey

The bug bites of summer. Let's be ready for the summer with all of the patients who will be coming in with acute signs of insect and arachnid bites, and secondary signs and infections that were caused by the scratching associated with the often harmless bites that occurred weeks prior. Can't remember what all the bugs and their bites look like? Check out below:

<http://www.webmd.com/childerguide/children/bad-bugs>

<http://www.upload.com/contents/large-local-hives-and-mosquito-bites-skunk-syndrome/>
source=machineLearning&search=bug+bits&selectedTitle=2%7E150§ionRank=1&anchor=H53162738-H5316273

So, your patient has positive nitrites on her in office urine dip. And a little pain. She needs ten days of double treatment antibiotics, right? Well, let's just see about that...

<http://www.upload.com/contents/acute-uncomplicated-cystitis-and-hydronephrosis-in-women/>
source=machineLearning&search=treatment+of+uncomplicated+uris&selectedTitle=1%7E150§ionRank=1&anchor=H59549-H58H59549177

Your postmenopausal patient has vaginal atrophy, among other complaints. Let's comedy treat this one:

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC20000615/pmc3000.html>

YSICIANS

UPDATES

Wiki Spotlight: new article shows correlation between weight fluctuation and mortality (cardiovascular and overall)
medRxiv Apr 17, 2017

NEJM article <https://www.ncbi.nlm.nih.gov/pubmed?term=28379800>
Population: about 10k patients in Treating to New Targets trial (a 14-country study of outcomes with different doses of atorvastatin)
Variable studied: researchers divided the participants into quintiles based on weight fluctuation
Outcome: For each standard deviation above the mean of weight fluctuation, there was an increased risk of cardiovascular events (1.04 95% CI 1.01 - 1.07) and death (1.09 95% CI 1.07 - 1.12). Comparing highest quintile to lowest quintile, higher risks of: coronary event (84%), cardiovascular event (85%), death (124%), MI (117%), stroke (137%).

Comment

STI Reporting

AMERICAN ACADEMY OF FAMILY PHYSICIANS

MAINTENANCE

- Wiki champions – 3 residents (1/year)
- Weekly review of clinic sessions and post to wiki (i.e. at faculty meetings)
- Faculty oversight
 - review edits of reference pages
 - lead faculty for rotations assigned to maintain their topic



AMERICAN ACADEMY OF FAMILY PHYSICIANS

UTILIZATION

- Do the residents actually use the wiki?



AMERICAN ACADEMY OF FAMILY PHYSICIANS

LET'S TRY IT!

- Please pair up with your neighbor and go to the wiki site on your own device (laptop or tablet preferred, smart phone ok)
- <http://umdfammed.wikispaces.com>

AMERICAN ACADEMY OF FAMILY PHYSICIANS

LET'S TRY IT!

■ <http://umdfammed.wikispaces.com/>



AMERICAN ACADEMY OF FAMILY PHYSICIANS

WHERE TO START?

<http://www.wikimatrix.org/>



AMERICAN ACADEMY OF FAMILY PHYSICIANS

WHERE TO START?

- **What are others using?**
- Online learning platform:
 - Canvas
 - pbworks
 - Google wiki
 - Sharepoint (Microsoft)

AMERICAN ACADEMY OF FAMILY PHYSICIANS

FEATURES TO THINK ABOUT

- Free vs. Paid subscription
- Software vs. web-based/hosted remotely
- WYSIWYG (What You See is What You Get)
- Page version history/tracking
- Calendar



AMERICAN ACADEMY OF FAMILY PHYSICIANS

RECOMMENDED PRACTICE CHANGES:

- Create an easily updatable and maintainable centralized resource for residency clinical and administrative information
- Develop a process for addition of new content to this residency resource
- Develop a process for continual review of this residency resource

AMERICAN ACADEMY OF FAMILY PHYSICIANS

ASK US!

- a.howell.md@gmail.com

AMERICAN ACADEMY OF FAMILY PHYSICIANS

QUESTIONS?

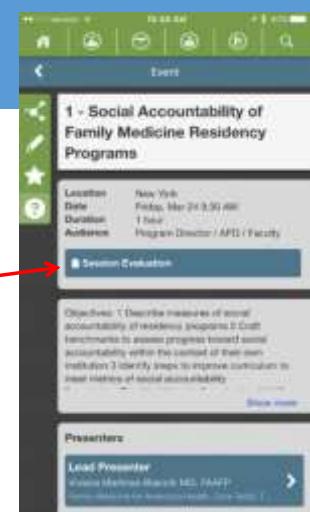
Thank You!



AMERICAN ACADEMY OF FAMILY PHYSICIANS

PLEASE

complete the
session evaluation.



Thank you.

AMERICAN ACADEMY OF FAMILY PHYSICIANS



AMERICAN ACADEMY OF
FAMILY PHYSICIANS

STRONG MEDICINE FOR AMERICA