The power of machine learning is here.

Introduction to VisualDx

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Disclosures

- I am a member of the VisualDx advisory board
- This presentation does not reflect an endorsement by Dartmouth-Hitchcock
- This product is not intended to replace dermatology consult service
Using VisualDx
- +DermExpert (take a picture feature)
- Dermatology DDx builder
- General medicine DDx builder

Tricks/Tips
- Search by medication
- Search by travel history
- Sympticons

Mobile device
- How to set up account
What is VisualDx?
What is VisualDx?

- Powerful clinical decision support software.
- Allows clinicians to:
  - Search by diagnosis for concise information including best tests, therapy options
  - Build patient-specific differential diagnosis based on symptoms, clinical signs
  - Provide educational handouts to patients
  - Review thousands of high quality physician-vetted images
What is DermExpert?

- Fully HIPAA compliant tool
- Harnesses the power of Apple’s machine learning technology, applied to skin disease
- Aids in recognition of lesion morphology
- Uses a clinical photo to initiate a differential diagnosis for dermatologic conditions
Quick Start for New Users

SMART SEARCH
Search by chief complaint, medication, or travel location to start building a custom differential. Or simply search a specific diagnosis to go straight to clinical information, images, and Sympticons.

BUILD A DIFFERENTIAL
“Quick Start Differential Builder” to be guided through building a custom differential for your patient.

VIEWING DIFFERENTIAL RESULTS
6 tabs are used to display results: Consider 1st, Consider 2nd, Emergencies, Infectious, Drug Induced and View All.
**Differential Builder Features in VisualDx**

**CHIEF COMPLAINT**

The chief complaint, entered in the search bar on the VisualDx homepage, is the main symptom that brings your patient to see you.

**ENTER FINDINGS**

The differential builder questions are tailored for each chief complaint. For example, “rash” will bring up questions about lesions, while “vomiting” will bring up questions about vitals and a patient’s physical exam. Select the appropriate symptoms experienced by your patient.

**DDX STRENGTH INDICATOR**

As you enter patient findings, use the DDx Strength Indicator to gauge the strength of your differential results.

**PATIENT INFO**

Specify patient age and gender to ensure that diagnoses are tailored to your patient.

**EDIT FINDINGS**

As you enter a patient’s symptoms (or findings), they appear here. To make a finding required in your differential results, click the circle on the left to make it turn green. To remove a finding, click the “x” on the right.

**TYPE IN FINDINGS**

Additional findings not found in the differential builder may be entered at any time by typing them into the text bar. Or use the text bar to enter findings quickly without using the menus.

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Demonstration
Access the DermExpert Case Study Video:
https://youtu.be/_sjudzy2dlg
55-yo F w/DM, Found down; admitted with suspected sepsis
55-yo F w/DM, Found down; admitted with suspected sepsis
68-yo M with pruritic blisters on arms, trunk, and legs; worsening for 2 months
VisualDx for General Medicine

- Search by symptoms, physical exam findings (including vital signs), CXR findings, travel history, medications, etc.
Tips & Tricks

- Search by medication
- Search by travel history
- Sympticons
- Quiz feature
  - Mobile app
Create Your Personal Account

Bring VisualDx with you anywhere and everywhere.

1. From an IP-authenticated clinical computer, go to visualdx.com/visualdx.

2. Click Get the Mobile App and fill out the information to create a personal login account.

3. Search VisualDx in either the App Store or Google Play. Download and enter the username and password you created in Step #2. Congratulations, you’re ready to go!

TIP

You MUST complete Step 2 before downloading the app.

Available for iPhone, iPad, and Android devices.
Create Your Personal Account
Bring VisualDx with you anywhere and everywhere.

1. From a VA computer, go to https://www.va.gov/LIBRARY/VALNET/.

2. Select “Find a Database”

3. Scroll to the bottom and select VisualDx. This will bring you to the VisualDx home page where you can register for a personal account and Get the Mobile App.

VisualDx is an visual-based differential diagnosis tool designed to quickly build a differential diagnosis based on chief complaints. Includes more than 40,000 images and 2,700 diseases per subscription. Includes DermExpert, which allows a clinician to immediately analyze the patient’s skin lesion type at the point of care.

External Link Disclaimer: The tools marked with an * are External links. B Department of Veterans Affairs website. VA does not endorse and is not a website.
Access the Introducing VisualDx Plus DermExpert video here: https://youtu.be/Q9j64qJ4F9o
Thank you

Feel free to contact me with any questions at Brian.S.Hoyt@hitchcock.org