



#### **Amy Marriott**

Director of Client
Success
amarriott@visualdx.com
585-272-2620

#### **Bob Sklar**

Director of Implementation rsklar@visualdx.com



# What is VisualDx?

VisualDx is powerful clinical decision support software that you can use at the point of care.



Search 3,400 diagnoses for concise information including best tests, management, and therapy options.



Build a patient-specific diagnosis based on a chief complaint, medication, or travel finding.



Engage patients with images that resemble their condition and handouts for nearly 400 common conditions.



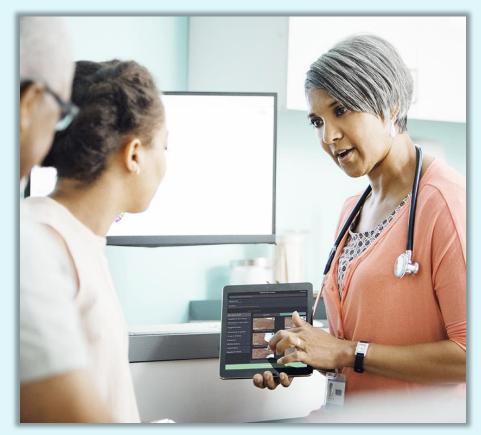
Review more than 47,000 high-quality medical images showing the variation of presentation.





# VisualDx Fills Knowledge Gaps

# Equity in Knowledge = Improvement in Diagnosis = Improved Health Care Outcomes



During the diagnostic process, doctors can use VisualDx to understand that variations in disease include skin color. VisualDx helps to fill in knowledge gaps related to skin of color.



Doctors engage patients with shared decision-making by using VisualDx to show images to the patient that look like them. Patients are more confident in the diagnosis and compliant with treatment.



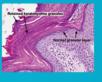
# VisualDx is More Than Skin Deep

PLUS AGE-SPECIFIC CONTENT INCLUDING INFANT • CHILD • TEEN • ADULT • GERIATRIC

#### IMAGE VARIETY IN VISUALDX



ECG 101



(histopath, gross) 1.395



Clinical **Images** 47,000+



**Sympticons** 4,196

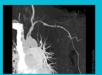
Illustrations

400



Skin of Color **Images** 29%

#### Radiology Total: 3,240



Angiography



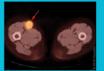
MRI 809



СТ 941



Ultrasound 203



PET/CT 10



X-ray 1,270

#### CLINICAL CONTENT BY SPECIALTY



Allergy / Immunology 326



**Pediatric** 1,272



Cardiology

1,240

859

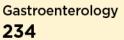
Dermatology

Drug-Induced

Endocrinology



Gastroenterology





Nephrology



Poisoning / CBRN\*



Genetic





Neurology 323



Psychiatry



Hematology



Oncology



Pulmonary 197



Infectious Disease 562

Injury / Trauma

Some diagnoses may be counted in more than one specialty. Clinical content is added and updated with each VisualDx data release.





Rheumatology 145



Orthopedic



Women's Health

\*Chemical/Biological/Radiation/Nuclear



#### **Dermatology for the Non-Dermatologist**

The days of dreading rash are over. With VisualDx you can grow more confident in diagnosing skin conditions and recognizing lesions in dark skin. VisualDx is designed to help you identify lesion types and make an accurate diagnosis.



# Why Use VisualDx?: Speed and Accuracy Through Visualization

#### **Text-based Analysis**

Many support and reference tools contain only detailed text, which makes it hard to use them at the point of care to quickly compare several possible diagnoses.





#### **Visual Pattern Recognition**

VisualDx uses medical images (including radiology, pathology, EKG), Sympticons™ and Illustrations to help you quickly compare a number of diagnoses.

▲ Deep vein thrombosis



Tender skin lesion Skin warm to touch

Leg pain
Unilateral leg edema
Erythema

Recent air travel Inpatient Unilateral distribution

Sedentary lifestyle



Illustration

Sympticon

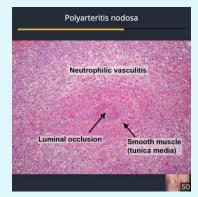
Radiology



Light Skin Image



Dark Skin Image



Pathology



# The Cost of Diagnostic Error



A 48-year-old patient presenting with bilateral leg redness and swelling. The patient had been admitted to the hospital 3 times over 6 months for the diagnosis of "cellulitis." In this case, the correct diagnosis was erythema nodosum.

Each year, at least **one in five** cellulitis patients in the U.S. is diagnosed incorrectly, hospitalized, given medications they don't need, and put at risk for dangerous complications.



**500,000** inpatient admissions for cellulitis in the U.S. each year.



Costs estimated at \$12,000 per admission and an error rate of 20%.



Misdiagnosis costs one billion dollars per year for cellulitis alone.

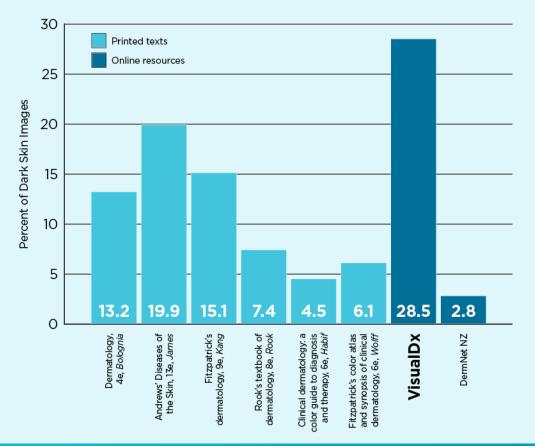


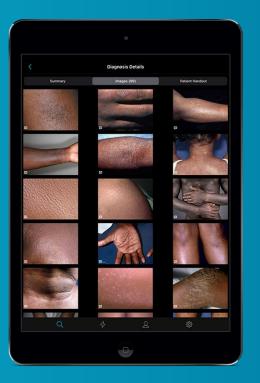
The highest cost is potential patient harm, as they can have a serious medication reaction to antibiotics or develop a serious infection during hospitalization.



# The World's Leading Skin of Color Atlas

Extent of illustration of dark skin in commonly used dermatologic learning resources for the 65 common dermatologic conditions included in this study.





- VisualDx is recognized for showing "pathology on dark skin in remarkably high proportion compared other resources."
- We believe representation is critical to bridging gaps of knowledge in medicine.

28.5% of images in VisualDx are skin type IV, V, VI.

Type IV

Type V

Type VI



# Disease Appearance: Differences in Skin Presentation

VisualDx is the only resource to have 1/3 of its images representing people of color.

#### CELLULITIS



Brown to red patch in a person of color with cellulitis.



Bright, erythematous patch and edema in cellulitis.

#### LYME DISEASE



Large erythematous patch of Lyme disease is subtle and can easily be missed in patients of color.



Classic targetoid, erythematous patch of Lyme disease is easily seen.

#### SYSTEMIC LUPUS ERYTHEMATOSUS



In deeply pigmented skin severe inflammation can cause depigmentation as in this patient.



Classic malar erythema in this patient with light skin.

#### **EXANTHEMATOUS DRUG ERUPTION**



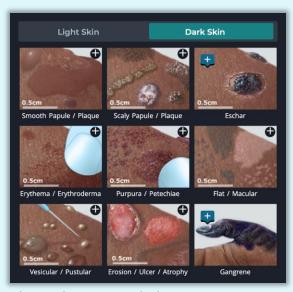
Coalescing erythematous papules are much less obvious in this child with exanthematous drug eruption.



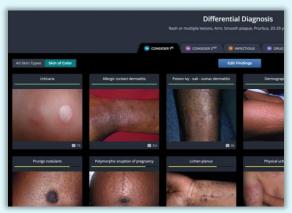
Multiple erythematous papules coalescing on trunk in light skin are obvious on light skin.



# Product Enhancements that Support Diversity and Inclusion



Choose lesion morphology for skin of color.



View the differential with skin of color images and filter images by skin type.

#### Información para el paciente sobre Candidiasis oral en Adulto

#### Resumen

Las aftas (candidiasis oral), también conocidas como moniliasis oral, son una infección por hongos en la boca o la garganta (la cavidad bucal). El hongo que más comúnmente causa la candidiasis oral es la *Candida albicans*.



Small, flat, white papules on the dorsal tongue.

#### Personas en riesgo

La candidiasis es muy común en los bebés. Los adultos que desarrollan candidiasis incluyen:

- Personas con diabetes u otros trastornos glandulares (endocrinos).
- · Personas que usan dentadura postiza.
- · Personas que toman antibióticos.

Share patient handouts in English or Spanish. Handouts are written specifically for a patient audience.



Read image captions to gain additional insight into presentations of disease.

#### Herpes zoster in Adult -

See also in: Cellulitis DDx, Anogenital, Hair and Scalp, Oral Mucosal Lesion

#### **Look For**

Grouped or confluent vesicles with scalloped borders on an erythematous base, best seen in lighter skin colors ("dew drops on a rose petal"), usually, but not always, confined to a distinct dermatome and not crossing the midline. The trigeminal nerve, especially the ophthalmic division, and the truncal dermatomes, from T3 to L2, are most often affected.

Early lesions may be grouped urticarial papules and plaques. Vesicles may be confluent, sparse, or discrete. After several days, the vesicles may become pustular, umbilicated, or hemorrhagic. Lesions typically crust over and resolve after 7-14 days. Scarring is common.

Impact of skin color on clinical presentation: Early manifestations of zoster including erythematous and urticarial papules and plaques may be more difficult to diagnose in darker skin colors as erythema may be a subtle finding. The presence of grouped papules and plaques that may be edematous, dermatomal, or have a sharp demarcation at the midline may serve as helpful clues.

Regional lymphadenopathy can occur. Pain, paresthesias, and/or pruritus may precede or accompany the appearance of rash.

#### Immunocompromised Patient Considerations:

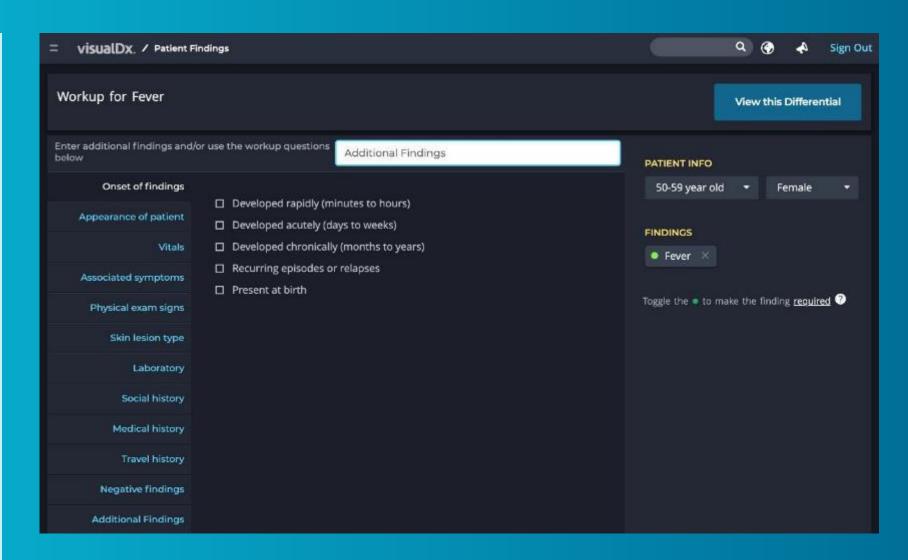
In multidermatomal zoster, 2 or more adjacent dermatomes are involved, leading to a broader band of lesions. Cutaneous involvement may cross the midline. Lesions may be slow to heal, with subsequent formation of chronic ulcers; hyperkeratotic papules/plaques and verrucous lesions may eventuate. In patients with HIV, persistent subacute to chronic ulcers may be a manifestation of herpes zoster. In patients with significant immunosuppression, an adequate full skin exam may reveal widely scattered crusted papules, vesicles and erosions of disseminated zoster.

Access information on special considerations such as patients of color or immunocompromised conditions. Our editorial team continues to add clinical considerations throughout VisualDx.



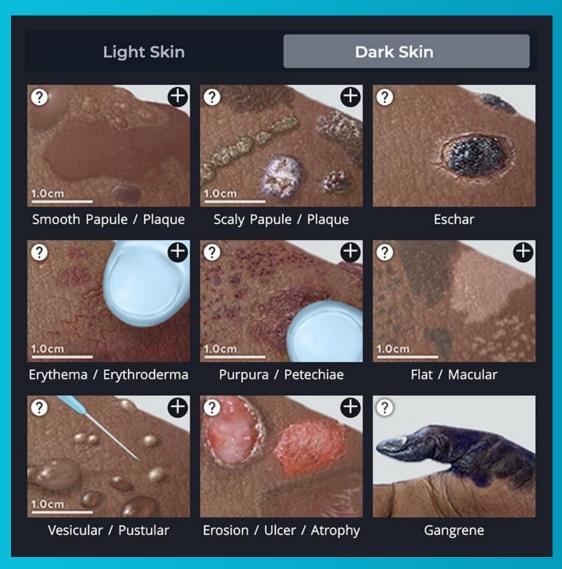
# Patient Assessment: Patient-Specific Workup

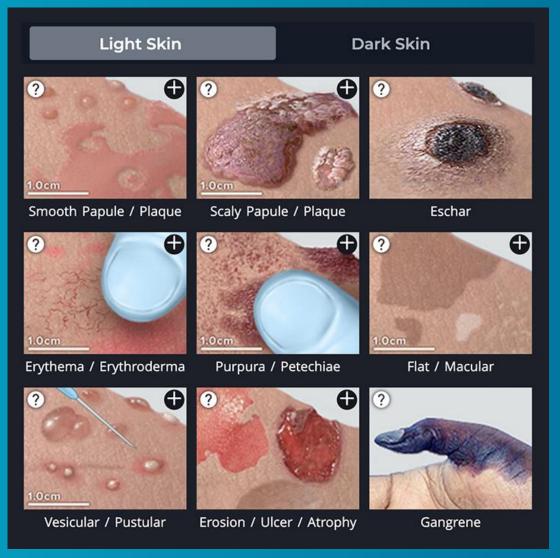
- Supports problembased learning
- Triage the patient symptoms
- More than 4,100 symptoms and findings in both basic and clinical terminology
- More than 222,000 finding/diagnosis relationships





# Clinical Medicine: Dermatology - Morphologies





Skin lesions on dark skin

Skin lesions on light skin



# Clinical Medicine: Ophthalmology, ENT, and Oral







# Clinical Medicine: Dermatology



We're here to help you build a solid foundation in dermatology through 5 interactive lessons. Take them at your own pace, use them as a study tool, see if your pattern recognition skills are improving. You can take the lessons in our suggested order or in any order you like.

Powered by visualDx.

Get Started →

#### **Dermatology Lessons**



1. The Skin Exam

Learn how to perform a skin exam on a patient.



2. Lesion Identification

Learn morphologic skin lesion terms and definitions. See examples in both light and dark skin.



3. Body Location & Distribution

Learn how distribution patterns and body locations can be used to develop a differential.



#### 4. Recognizing Configurations

Learn the definitions for skin lesion configurations and see examples.



5. Morphologic Variation

Learn how variants in presentation and appearance can impact the diagnosis of skin disorders.



6. Atopic Dermatitis

Learn about atopic dermatitis and gain a fundamental understanding of the disease.

## **LearnDerm**

Non-dermatologists learn terminology, pattern recognition skills, and dermatology fundamentals with 6 self-paced lessons and quizzes.



# What's New in VisualDx?

#### **Product Enhancements**

#### Introducing VisualDx's New Compare View Feature

Compare View empowers clinicians to refine their differentials by providing a side-by-die comparison of visually similar conditions.

#### **Clinical Education Center**

Empowering Future Medical Professionals: Technology's Role in Medical Education

PACT Act Resources – Now Available on your VisualDx Dashboard!

#### **Content Updates**

August 2024: Mpox & Long COVID updates, new TNF-alpha inhibitor findings and more

June 2024: Rare dermatological images, new patient handouts and more

April 2024: Infectious disease outbreaks and neglected tropical disease images

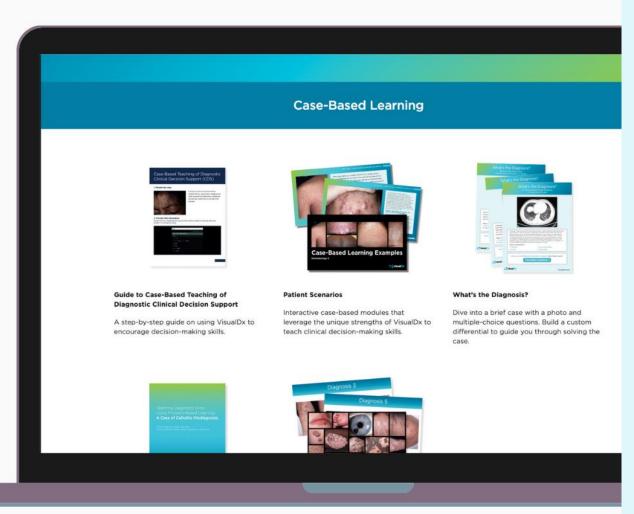
February 2024: Additional images and medical illustrations and updates to recent public health outbreaks





# C linical ducation C enter

Educational resources created to instill lifelong information-seeking habits.

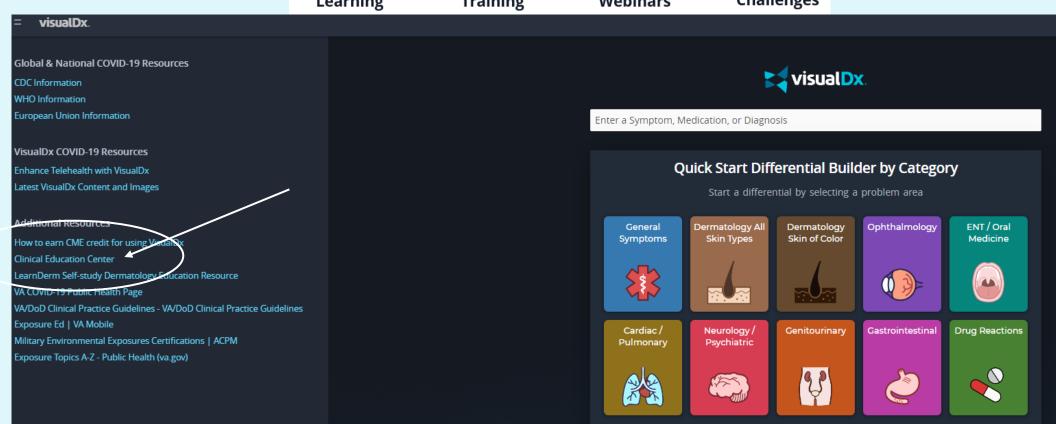




# Clinical Education Center

#### Readily-available resources for classroom and remote learning:.





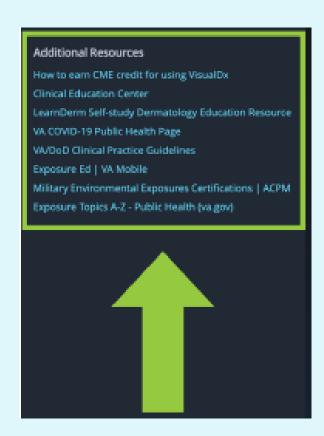


## PACT Act Resources

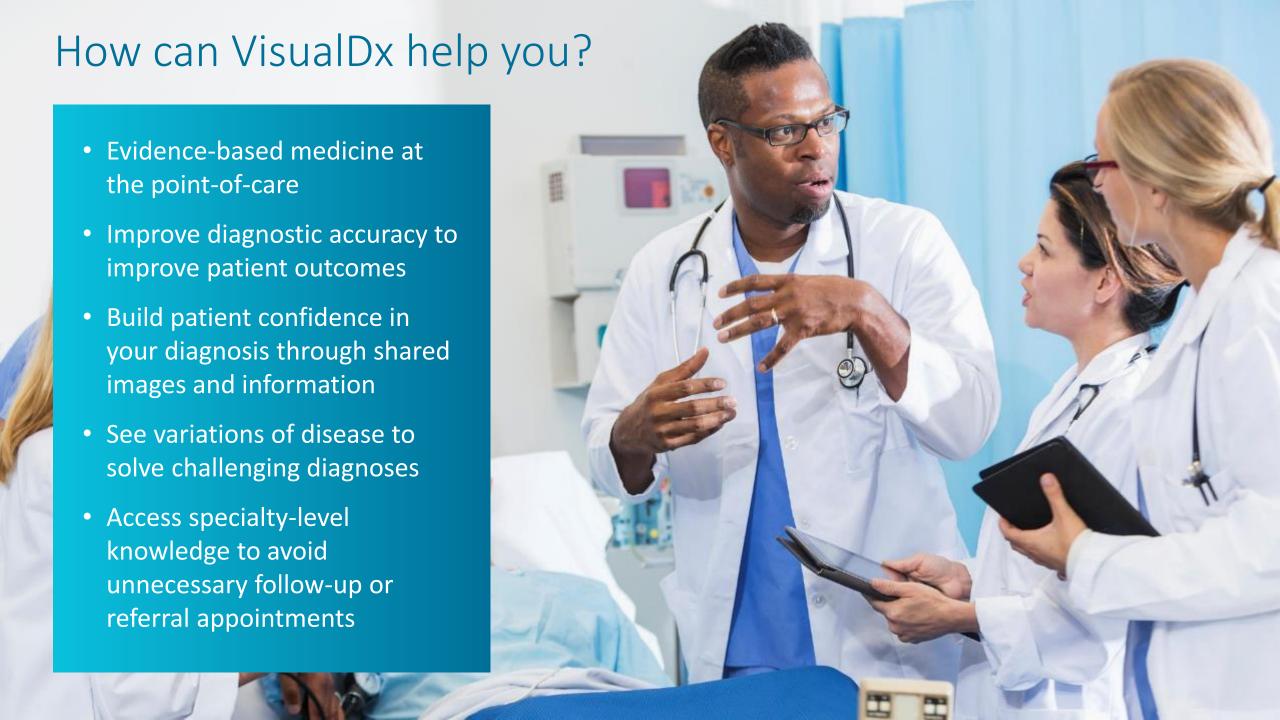
Quickly access the information you need with dynamic links right on the homepage of VisualDx on the web.

#### Resources include:

- VA/DoD Clinical Practice Guidelines
  - Exposure Ed | VA Mobile
- Exposure Topics A-Z Public Health (va.gov)
- Military Environmental Exposures Certifications | ACPM







# Create Your Personal Account

Bring VisualDx with you anywhere and everywhere.





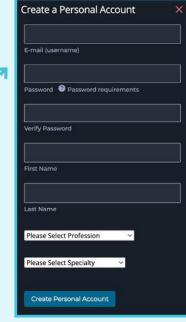




# How do I get access?

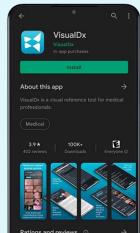
- 1 While on the VA network (onsite, VPN, or Citrix), go to www.visualdx.com/visualdx
- Click Create a Personal
  Account and fill out the
  information to create a
  personal login account.
- Search VisualDx in either the App Store or Google Play. Download and enter the username and password you created in Step #2. Congratulations, you're ready to go!
- You can also access
  VisualDx through the
  VHA National Desktop
  Library













# Internal and External Support Team

#### Internal

- <u>Support -</u> Contact Library Network
   Office
  - vhalno@va.gov

#### External



Amy Marriott
Director of Client Success
amarriott@visualdx.com



Bernie Mangano
Chief Growth Officer
bmangano@visualdx.com



Bob Sklar
Implementation Director
rsklar@visualdx.com

Support@visualdx.com



