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VisualDx Fact Sheet

Health care costs have spiraled out of control, yet quality of care has not improved. High costs and poor results can be cut dramatically if clinicians begin effective treatment and care where it matters most – with accurate diagnoses. But currently, inaccurate diagnoses are estimated to be 15% of all diagnoses. Such mistakes can cost millions of healthcare dollars every year.

Visual cues are essential diagnostic clues. Yet how do clinicians distinguish among common diagnoses or diagnose a rare disease? Most medical atlases, online searches, and text-only databases are organized by diagnosis, forcing users to consult and index multiple pages or screens – taking time and focus away from the patient.

With the world's largest digital medical image collection, including more than 50,000 images, Logical Images provides the only point-of-care technology that integrates medical images with regularly updated and physician-reviewed clinical information. The result is a visual differential diagnosis based on actual patient findings – and fast, easy access to the knowledge of specialists. Early user trials suggest that Logical Images professional software, VisualDx, has the potential to improve diagnostic accuracy by over 120%. It takes about five minutes to learn, for almost instant return-on-investment. Improving diagnostic accuracy cuts costs and improves outcomes – for healthcare professionals and consumers. Logical Images serves both constituencies.

VisualDx *for health care professionals*

VisualDx is the only point-of-care technology to merge medical images with clinical information to build a visual differential diagnosis for more than 900 visually identifiable diseases, drug reactions and infections based on actual patient findings. VisualDx does not require the clinician to search by diagnosis name. Clinicians simply enter the patient's clinical features, such as lesion morphology, body location, symptoms, medical history, etc., to build a customized pictorial differential diagnosis in seconds. VisualDx presents diseases in variation by severity, skin type, age, and passage of time. The tool provides handbook-length text with diagnostic pearls, testing, therapy, and more.

The results are drawn from more than 16,000 dermatology, pulmonary, oral, ophthalmic, drug eruption, and radiology digital medical images, representing all ages and skin types and the variation in presentation of the disease. Providers are presented with the full range of possible diagnoses to support the physician's final determination.

VisualDx is a multi-use solution for resource-limited hospitals, public health agencies, rural clinics, and educational centers. An effective day-to-day tool for improving diagnostic accuracy and the health of the community, VisualDx gives clinicians access to the specialist knowledge they need to diagnose patients quickly and accurately and, where appropriate, avoid referral to specialists.

VisualDx also serves as a solution for early detection of infectious diseases, including conditions caused by malicious release of an infectious agent (CDC categories A, B, and C bioterrorism agents), chemical warfare and radiation injury. VisualDx places relevant health alerts from health departments directly in front of clinicians, bringing awareness during the patient encounter.

VisualDx is also a valuable educational tool. Many times students and residents fall into the cycle of accepting a prior diagnosis and/or developing a limited differential diagnosis from memory. VisualDx not only performs as an up-to-date training aid but also demonstrates the importance of following an evaluation process and developing a complete differential prior to diagnosing the patient.

VisualDx aids in the detection and treatment of medical conditions exhibiting visual characteristics, including the following:

- Fever and rash
- Infectious diseases
- Acute respiratory infections
- Sexually transmitted diseases
- Bioterrorism
- Oral lesions
- HIV/AIDS
- Dermatology
- Smallpox vaccinations
- MRSA
- Radiation contamination
- Drug eruptions

Public Health Initiatives:

- The Smallpox Vaccination and Adverse Events Training Module: Created for the Federal Department of Health & Human Services and the Centers for Disease Control, this module provides extensive medical information on the vaccinia (smallpox) vaccine and its adverse reactions including high-quality diagnostic images, clinical management descriptions, and references to the medical literature.
- Smallpox Vaccination: Vaccination Method and Reactions Pocket Guides: Provides concise information on the vaccine, method of vaccination and the nature of the expected responses to vaccination, as well as adverse reactions and interventions. Pocket guides have been customized for government, public health, and other vaccination stakeholders worldwide.

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