

DYSMORPHOLOGY IN PRACTICE

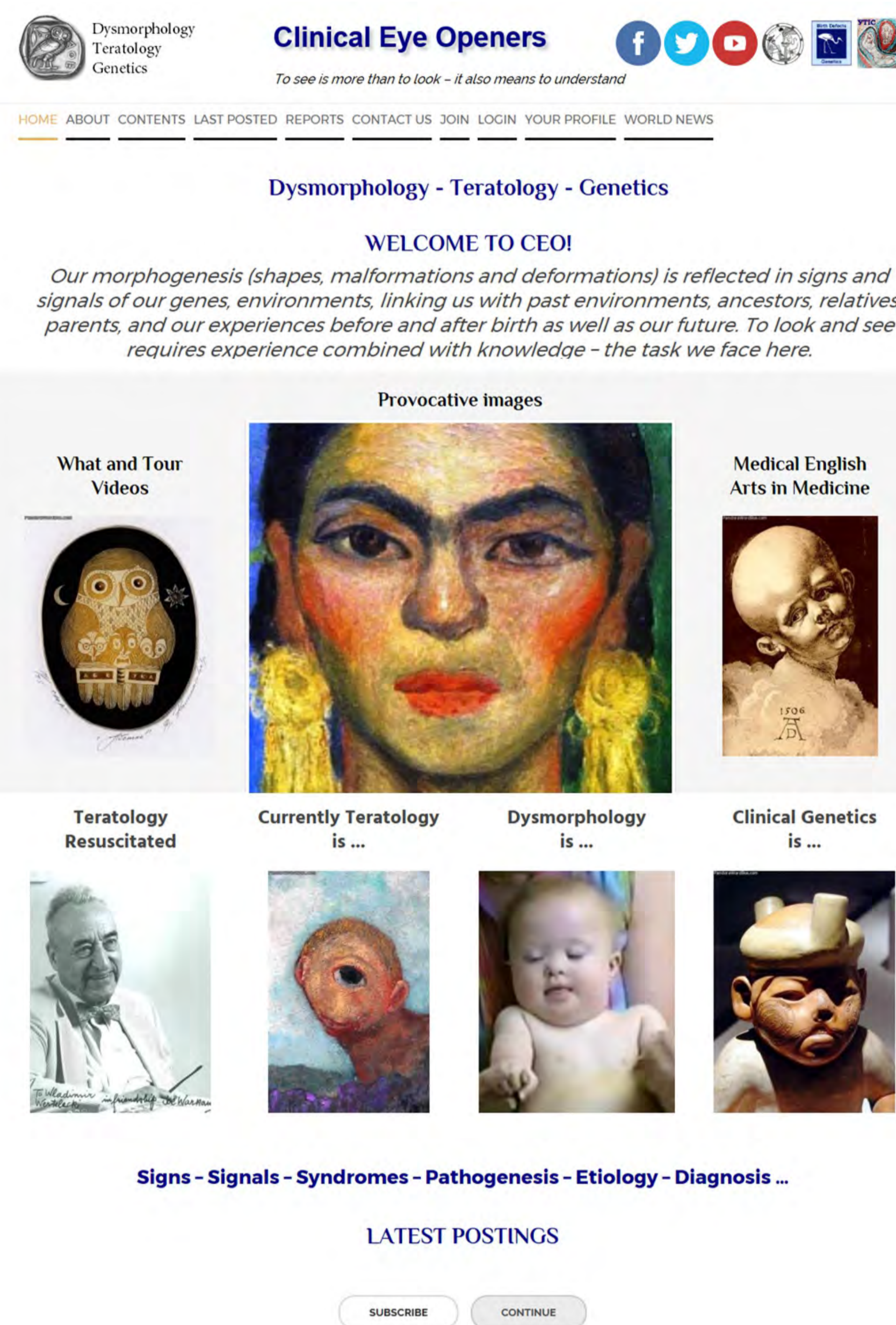
Wertelecki*¹ Wladimir, Korzhynskyy^{1,2} Yuriy, Yevtushok^{1,3} Lyubov, Zymak-Zakutnia^{1,4} Nataliia, Liashenko⁵ Serhiy, Lapchenko^{1,5} Serhiy, Lastivka^{1,6} Iryna, Patskun^{1,7} Erika, Kamut^{1,2} Nataliya, Tychkivska^{1,2} Olga, Akhmedzhanova^{1,4} Diana, Ostapchuk^{1,3} Lyubov, Hohosha^{1,2} Iryna, Tkhorevskyy^{1,8} Serhiy

OMNI-Net for Children International Charitable Fund, Ukraine¹, Lviv National Medical University, Lviv, Ukraine², Rivne Province Regional Medical Diagnostic Center, Rivne, Ukraine³, Khmelnytsky City Perinatal Center, Khmelnytsky, Ukraine⁴, Volyn Regional Children's Territorial Medical Center, Lutsk, Ukraine⁵, Bukovyna State Medical University, Chernivtsi, Ukraine⁶, Uzhhorod National University, Uzhhorod, Ukraine⁷, Zagrava Games Development Studio, Rivne, Ukraine⁸

Abstract

Prenatal ultrasonographers and neonatologists are critical for the early recognition of teratogenic impacts. It is self-evident that the recognition of dysmorphic signs (DYSM) are signals that often accelerate clinical diagnoses and play a significant role in efforts to elucidate teratogenic, genetic and epigenetic causes and mechanisms. However, current medical school curricula and postgraduate education programs rarely offer sufficient visual exposure illustrative of DYSM in clinical perspectives. To address this issue, we developed an Internet resource, "Clinical Eye Openers" (CEO) - <http://ceo.medword.net/>. The CEO central goal is to present provocative images illustrative of DYSM and their significance. Concurrently, clinical image galleries, videos, as well as English medical terminology, humanities, fine art images and other elements likely to enhance memorization, are presented and can be explored in depth in a companion website "Pandora Word Box" - <http://www.pandorawordbox.com/>. Diagnosis and clinical managements are not among the goals of CEO. The design insures access through "smart-telephones" and other portable electronic display devices. Provocative images are posted at least weekly in a framework of "what do you see?" along with perspectives contributed by a variety of experts. CEO includes video-tutorials and reviews by eminent experts. Initial CEO assessments were by clinical geneticists, neonatologists and educators from three schools of medicine. Ongoing implementations include the integration of CEO contents to enhance visual exposures of nearly 3,000 medical schools students to DYSM signs in the domain of Teratology, Genetics and Epigenetics. Concurrently, a similar integration of CEO contents in programs for interns, residents and continuing medical education is in process. Assessment and contributions by members of teratology societies are welcomed.

<http://ceo.medword.net>



About CEO

CEO project was initiated by OMNI-Net International Charitable Fund and MedWord LLC. The CEO editor is Dr. W. Wertelecki, M.D., who is a Pediatrician and Medical Geneticist.

Our policies uphold published standards of quality assurance namely explicit credits to authors, sources, dates/updates, completeness and accuracy of contents, among other criteria. The emphasis is international. We actively promote inclusion of sources "not-in-English" and encourage such submissions for potential posting.

WHY

To promote "open eyes" – clinical skills to note signs and understand which are signals of clinical relevance.

WHAT

Show provocative illustrations (images and videos) to "open eyes" of clinicians and their ability to translate them into clinical signals.

WHO

The images are selected from contributions by experienced clinical geneticists. The editor is Professor Dr. Wladimir Wertelecki, a Pediatrician and Clinical Geneticists (search YouTube).

WHEN

Ongoing – generally, postings appear weekly. Frequent postings of provocative images and videos illustrating developmental landmarks and dysmorphic signs followed by interpretations of signs as signals. Concurrent emphasis on "Medical English". Postings may consist of single or series of images (galleries), as well as video recordings. Some modules include interpretation of signs as signals and clusters of signals as syndromes. Larger modules may include hypotheses of pathogenesis, etiology and diagnosis.

NOT

CEO is NOT a source of information concerning syndromes, diagnosis or medical management. The aim of CEO is limited to an emphasis of provocative images and corresponding medical terminology. Occasionally mention is made of pathogenesis, etiology, diagnosis, prognosis, and treatments with the purpose of enhancing memorization and demonstration of relevance.

Signs

Transformation of signs into signals and dysmorphic syndromes.

Please click or drag images



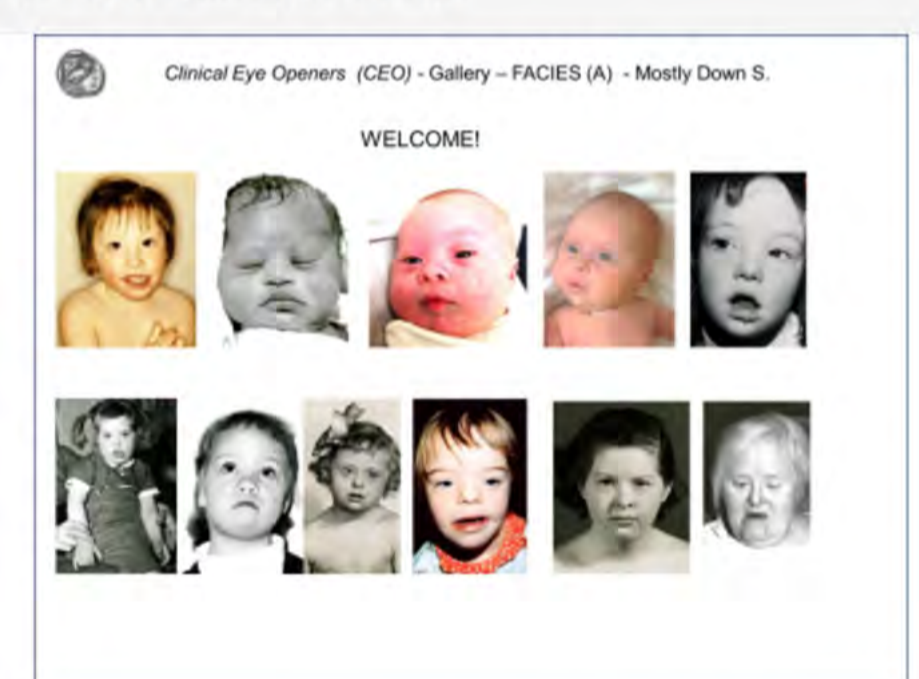
Clinical

Variants, dysmorphisms, malformations, deformations ... embryopathies, fetopathies ... dysplasias, neoplasias ...



Syndrome Gallery

DOWN SYNDROME - TRISOMY 21 - GALLERY OF SIGNS



This video module presents a gallery of facial dysmorphic signs (informative morphogenic variants). The theme is to emphasize faces that are characteristic - most of these individuals are diagnosed or are suspected of having Down syndrome. However some of them have other conditions that look alike to Down syndrome. So, please be alert.

The module is available in the following languages:
 - View video in English
 - View video in Ukrainian
 - Back to the Gallery of Syndromes

Signs Format

EAR DIMPLES BECKWITH



ANY SIGNS?
 Please click to enlarge. Note what signs you see.
 See what I see

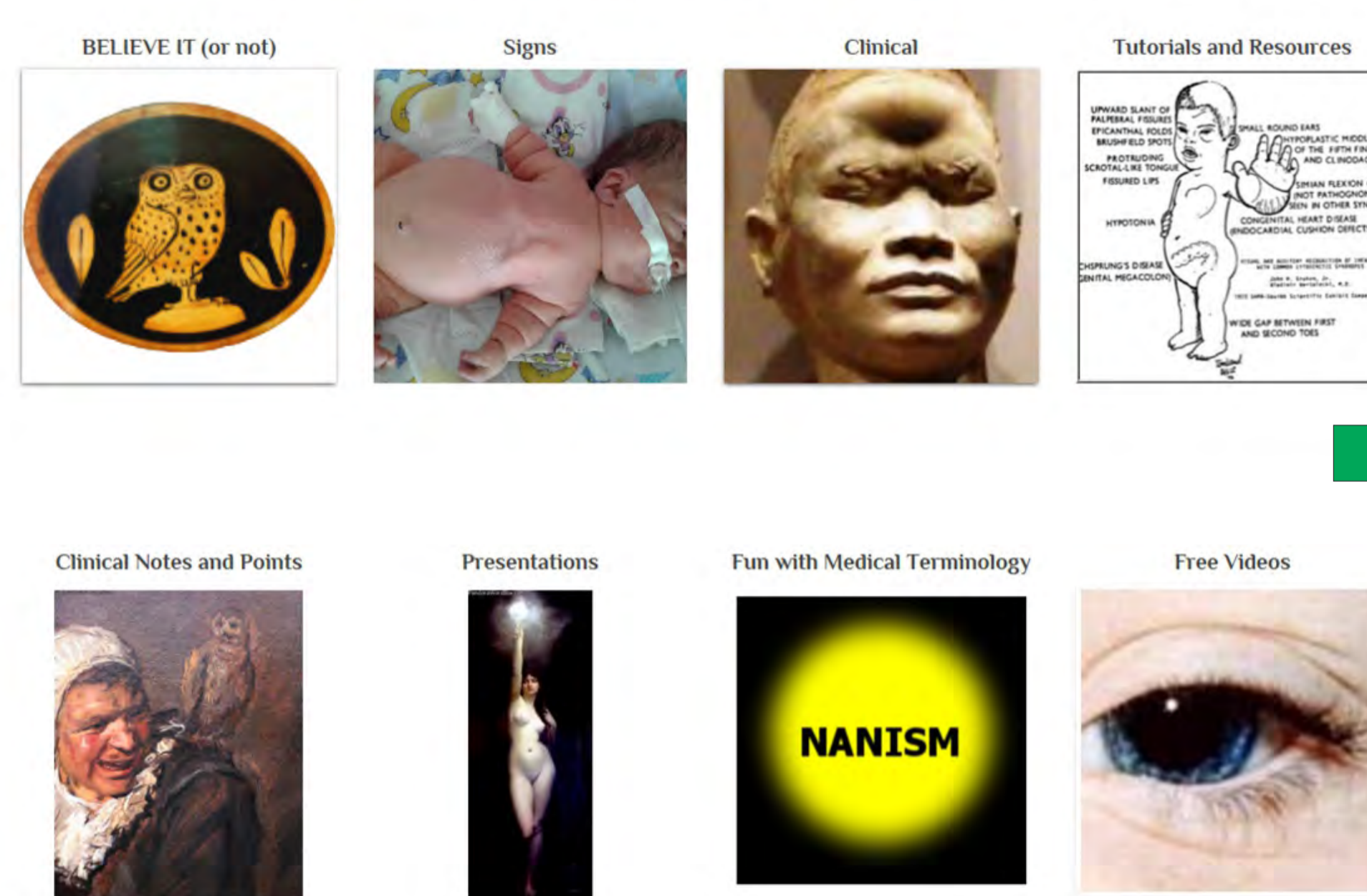
I RW Wertelecki, M.D. see protrusions and creases on the ear lobule of two unrelated patients.
 PERSPECTIVE: This sort of irregularities must trigger the suspicion of Beckwith Wiedemann syndrome (macroglossia-omphalocele, gigantism, hyperinsulinism, ... - see diagnosis gallery and patient galleries (patient 1, patient 2).

See forum

Contents

Channels

To create GALLERIES OF SIGNS, SIGNALS, SYNDROMES - use the search function - please join CEO



Believe it (or not)



Clinical Eye Openers (CEO) - Special Presentation
 Genetics - Teratology - Dysmorphology

A REAL GAME OF THRONES
 ON HOW THE HABSBURG COURT SEIZED SPAIN
 and
 How Contemporary Portraits Challenge Prevalent Stories.

Contemporaneous portraits of members of the Habsburg families illustrate multiple instances of unusual and characteristic faces (faces in Dysmorphology parlance) described later. For brevity, individuals manifesting a "Habsburg" faces are referred thereafter as being H+. The segregation of H+ among families across centuries and all regions of Europe is compatible with the inheritance of a single gene dominant mutation of high penetrance (a brief summary of Mendelian Laws of Inheritance is included in the Addendum).



Presentations

Notions resistant to erosions by time.

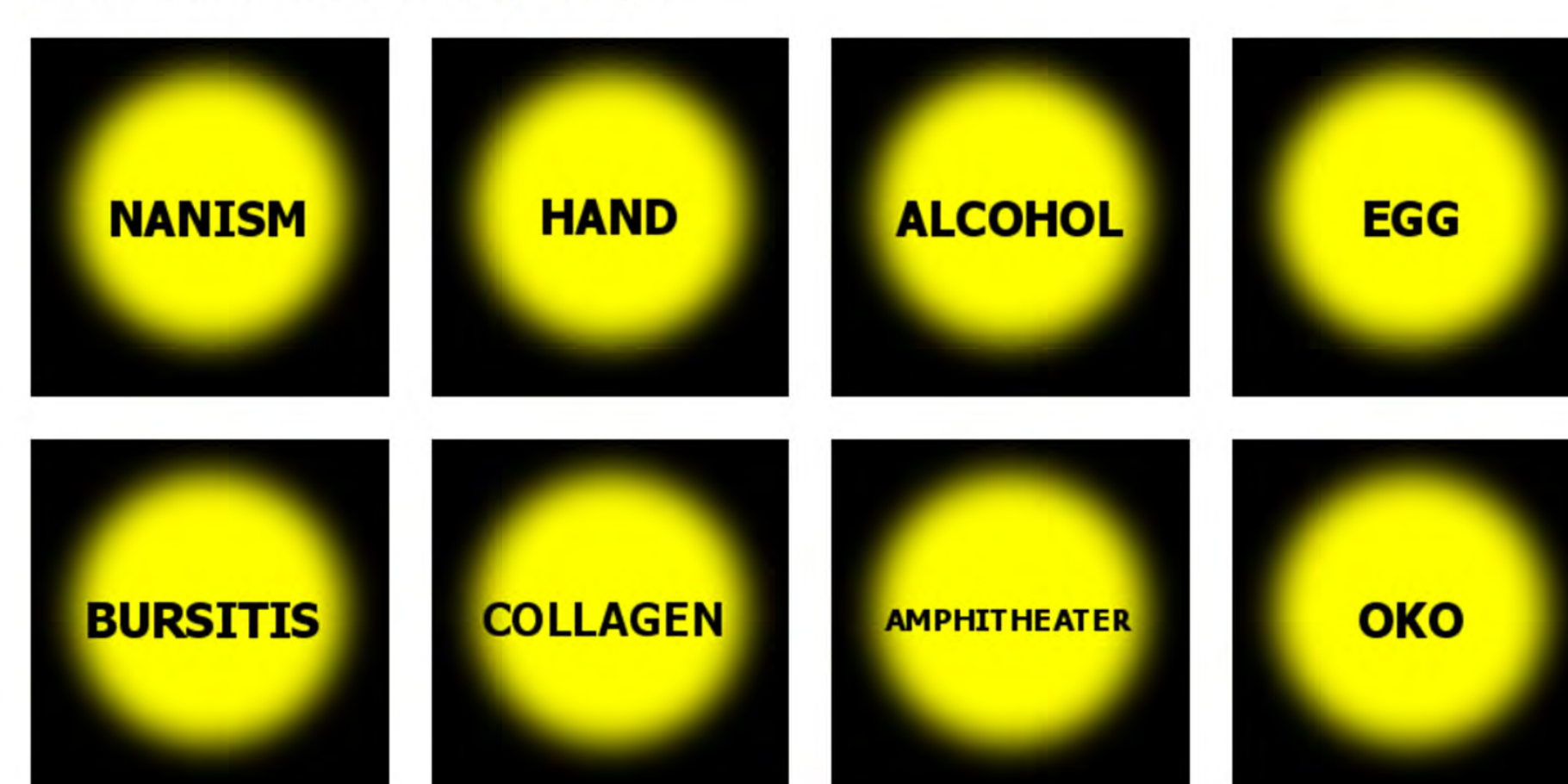
Birth defects congenital malformation prevention world day
 - 2017, March 3, Key points and press release
 - Keynote presentation (28 min) Prof. Wladimir Wertelecki and Dr. Lyubov Yevtushok - Strategies and Implementations (in Ukrainian)

IN ALPHABETICAL ORDER
 Please consider searching by keywords

A Child For Life: A 22-minute educational film explaining Fetal Alcohol Spectrum Disorder (FASD) and including interviews with experts, families and children affected by FASD. It was produced by NCFAS, United Kingdom (NCFASUK) and translated into Ukrainian by Ukraine Words Ltd (Anne Lunden, Director) (ALCOHOL BABIES CHILD CHILDREN DISORDERS FAMILIES FAMILY RELATIONS PUBLIC HEALTH INFANTS FASD).
B Breastfeeding, Alcohol and Drug Use: Overview of lactation as a vehicle of teratogenic impacts of alcohol on drugs made by Dr. Claire Cole, a member of the international team implementing the CFASD initiative in Ukraine sponsored by the National Institutes of Health concerned with alcohol teratogenesis. She coordinates investigations of alcohol impacts on mental development (ALCOHOL BABIES BREASTFEEDING FASD PUBLIC HEALTH).
C Chromosyl - Polissia - Pregnancies - Children A presentation made by Prof. Wladimir Wertelecki (OMNI-Net Ukraine) in 2016 in Lviv. It is dedicated to the 30th anniversary of the Chernobyl Nuclear Power Plant accident - in Ukrainian (IONIZING RADIATION, BECQUEREL, CS-137, CESIUM, NTD, MICROSPINALLY SPERMATOLOGY).
C Genetic malformations in Rivne, Polissia and the Chernobyl accident. A presentation made by Prof. Wladimir Wertelecki at the Helen Caldwell Foundation Symposium "The Medical and Ecological Consequences of the Fukushima Nuclear Accident", New York Academy of Sciences, 2013 - in English with French subtitles (IONIZING RADIATION, BECQUEREL, CS-137, CESIUM, NTD, MICROCEPHALY, EPIDEMIOLOGY).
D Diagnosis of the Fetal Alcohol Syndrome: A presentation made by Prof. Kenneth L. Jones (Department of Pediatrics, University of California, San Diego, La Jolla, CA, USA) at the Ukrainian Catholic University (Lviv, Ukraine) in April 2017 - in English with Ukrainian translation (FAS, FASD, DIAGNOSES, PREVENTION).
E Excerpts from "Genetic Counseling": A report by Frank Clarke Fraser based on a Workshop on Genetic Counseling sponsored by the National Genetics Foundation, Inc. held in Washington, D.C., December 10-13 1977 (Fraser FC, Genetic counseling, American Journal of Human Genetics, 1972;29:626-661) (GENETIC COUNSELING).

Illuminations

Have fun with medical nomenclature (click below) - many words are like constellations of stars that illuminate clusters of ancient ideas that transcend time and linguistic barriers. Medical parlance relies upon empirical terminology and is best memorized by awareness of inherent ideonomy and etymology.



Illuminations Format

NOTIONS LINKING WORDS

