

2017: Ehlers-Danlos

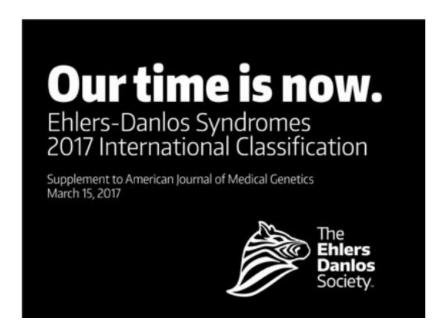
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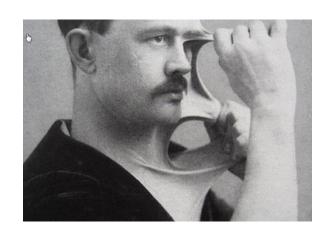
 In March 2017, EDS researchers around the world published new standards and guidelines for EDS and related disorders in the American Journal of Medical Genetics

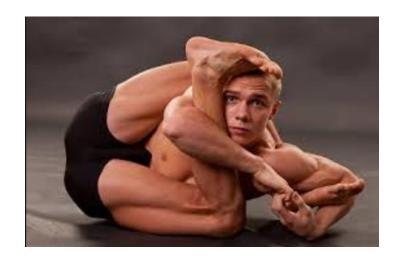




- First mentioned by Hippocrates 4th century BCE
- Elastic Skin Man
- India Rubber Man
- Human Pretzel
- 1930 "Ehlers-Danlos"









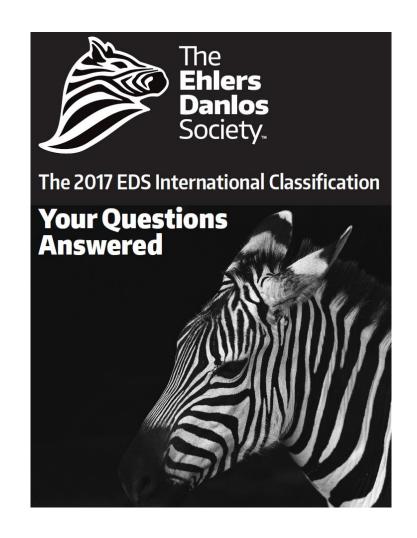


- 1986 Berlin Meeting
 - 11 subtypes
 - Roman numbers
- 1998 Villefranche
 - 6 subtypes
 - Descriptions
- 2012 Ghent
 - Research/Registries
 - Keep up with changes

Biggest changes



- Changes in names
- Need genetic testing to confirm any diagnosis other than hEDS
- Hypermobility EDS now either hEDS or Joint Hypermobility Spectrum Disorder



Rarer types of EDS will require genetic testing



- Classical cEDS Col1A1
- Classical-like
 - cIEDS Tenascin-x
- Cardiovalvular
 - cvEDS COL1A2
- Arthrochalasia EDS
 - aEDS COL1A1/COL1A2
- Dermatosparaxis
 - dEDS ADAMTS2
- Kyphoscoliotic
 - K EDS PLOD1/FKBP14

- Brittle cornea syndrome
 - BCS SNF469/PRDM5
- Spondylodysplastic
 - spEDS B4GALT7
 - spEDS B3GALT6
 - spEDS SLC39A13
- Musculocontractural
 - mcEDSD4ST1/CHST14/DSE
- Myopathic
 - mEDS COL12A1
- Periodontal
 - pEDS COL3A1/C1R/C1S

NOT TO PANIC!



- Many people with EDS hypermobility form would not currently meet criteria for hEDS
- If you have hypermobility EDS you do NOT have to be rediagnosed!
- hEDS is NOT better or worse than "Joint Hypermobility Spectrum Disorder"
- Problems and treatments are the same
- May have different diagnoses in same family



Diagnosis hEDS



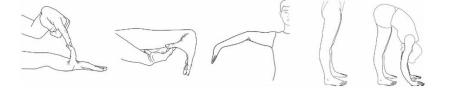


- Have to meet 3 criterion
 - Generalized joint hypermobility
 - Systemic problems
 - Must have at least 2 of 3
 - Must not have evidence of another connective tissue problem
- Go to EDS website!

Criterion 1: Hypermobility



- Generalized joint hypermobility
 - >= 6 preteen
 - >=5 Teens to 49
 - >=4 older than 50
- History 1 extra point
 - Can you know or could you ever touch both palms to floor
 - Ever touch thumb to forearm
 - Do Splits or joint tricks
 - Dislocate knee or shoulder more than once as a child or teen
 - Do you consider yourself double jointed



Criterion 2 SYSTEMIC, Family History & Musculoskeletal



- Must have at least 2 of criterion 2
 A, B and C
- 5 of 12 of feature A



A Systemic

- soft skin
- 2. mild skin stretchiness
- 3. odd stretch marks
- 4. piezogenic papules both heels
- 5. recurrent or several hernias
- 6. atrophic scarring at least 2 places
- 7. pelvic floor prolapse without a pregnancy
- 8. Dental crowding or high palate
- 9. arachnodactyly
- 10. armspan/ht >= 1.05
- 11. >=mild mitral prolapse
- 12. aortic root dilation z>+2





- B Family History
 - 1st degree relatives
 - · Parent, child, sib
 - Under **new** diagnostic criteria



- Pain in 2 or more limbs at least 3 months
- Chronic widespread pain at least 3 months
- Recurrent dislocation or major instability
 - ->=3 dislocations same joint
 - Or >=2 dislocations different joints
 - Medical confirmation joint instability

Must have at least 1





- Unusual skin fragility
 - Signs of other EDS
- Other medical problem
 - Rheum
 - Marfan
- Other joint/NM problem
 - Low muscle tone
 - Neuromuscular
 - Osteogenesis imperfecta

All must be met









- The changes are basically in words
- One diagnosis is not better or worse than the other
- You do not need to be Re-diagnosed
- Meditation, Buddhirm, Mank, Temple



- Don't need to do echoes as often for hEDS
 - One normal as child and one as adult
- Best treatment
 - Exercise
 - Drink more fluids
 - Eat more salt
 - Cognitive therapy

