Scientific Meeting on the Rarer Types of EDS: From Genetics to Management







<1% COL1A1 variants





































































Disorder Gene(s) MOI Overdapping w/cEDS Sciency Classic-like EDS (OMIM 606408) TNXB SCIENTIFIC MEETING RARER TYPES Cardiac-valvular EDS (OMIM 225320) Cardiac-valvular EDS (OMIM 225320) CollA2 AR Skin hyperextens (OMIM 225320) CollA2 AR Soft, eVerby skin (Generalized) joi Verberty skin (OMIM 225320) CollA2 AR Soft, eVerby skin (Generalized) joi OP Arthrochalasia EDS (OMIM 130060, 617821) Dermatosparaxis EDS (OMIM 225410) ADAMTS2 AR Soft, doughy skin (Atrophic scarring (Sin hyperextens (GH	Distinguishing from cEDS ibility • AR inheritance • Absence of atrophic scarring ibility • AR inheritance • Severe progressive cardiac- valvular problems thypermobility • Absence of truly papyraceous &/or hemosiderotic scars ibility Bilateral congenital hip dislocation
Dations Society Classic-like EDS (OMIM 606408) TNXB AR • Skin hyperextens Velevery skin SCIENTIFIC MEETING RAREET TYPES TOKYO 2019 Cardiac-valvular EDS (OMIM 225320) COL1A2 AR • Skin hyperextens • Velevery skin Cardiac-valvular EDS (OMIM 225320) COL1A2 AR • Skin hyperextens • Atrophic scarring • Control is scarring • GIH Hypermobile EDS Unknown AD • GIH • Soft, velevely skin • Mild skin hyperextens • Mild atrophic scarring • Easy bruising Dermatosparaxis EDS (OMIM 225410) COL1A2 AR • Soft, doughy skin • Atrophic scarring • Skin hyperextens • GIH	ibility • AR inheritance ibility • Absence of atrophic scarring ibility • AR inheritance s • Severe progressive cardiac- vabular problems • Absence of truly papyraceous &/or hemosiderotic scars • hemosiderotic scars ibility Blateral congenital hip dislocation
Cardiac-valvular EDS (OMIM 225320) COLIA2 AR - Skin hyperextem - Atrophic sarring - Easy bruising - (Generalized) joi Hypermobile EDS Unknown AD - GIH - Sift Atrophic sarring - GIH Arthrochalasia EDS (OMIM 130060, 617821) COLIA2 AR - GIH - GIH - Sift Atrophic sarring - Sift Neverty skin - Mild atrophic sarring - Easy bruising Dermatosparaxis EDS (OMIM 225410) ADAMTS2 AR - Soft, doughy skin - Atrophic sarring - Skin hyperextens - GIH	ibility • AR inheritance § • Severe progressive cardiac- valvular problems trensibility Absence of truly papyraceous &/or hemosiderotic scars ibility Bilateral congenital hip dislocation
Hypermobile EDS Unknown AD GIH Hypermobile EDS Soft, velvety skin Mild skin hypere Arthrochalasia EDS (OMIM 130060, 617821) COLIA1 COLIA2 AD GIH Dermatosparaxis EDS (OMIM 225410) ADAMTS2 AR Soft, velvety skin Atrophic scarring Atrophic scarring	Absence of truly papyraceous &/or hemosiderotic scars biblity Bilateral congenital hip dislocation
Arthrochalasia EDS (OMIM 130060, 617821) COLIA1 COLIA2 AD GIH Skin hyperextens Atrophic scarring Easy bruising Dermatosparaxis EDS (OMIM 225410) ADAMTS2 AR Soft, doughy skin Skin hyperextens GIH	ibility Bilateral congenital hip dislocation
Dermatosparaxis EDS (OMIM 225410) ADAMTS2 AR GIH	
	Extreme skin fragility (usually > than in cEDS) Redundant, almost lax, skin bility Features Postnatal growth restriction A R inheritance
Kyphoscoliotic EDS PLOD1 AR GJH Skin hyperextens Easy bruising Atrophic scarring	ibility Congenital muscle hypotonia
Kyphoscoliotic EDS w/myopathy & neurosensory hearing loss FKBP14 AR • GJH Skin hyperextens • Easy bruising	Congenital muscle hypotonia Muscle atrophy Congenital hearing impairment

The	THE JOURNAL OF BOLLOGICAL OFENGTRY VOL. 391, NO. 16, pp. 12685–12895, May 5, 2006 G 2005 by The American Society for Bochemesiny and Morecular Biology, Inc Remod mither U.S.R.
SCIENTIFIC MEETING RARET TYPES TOKYO 2019	Murine Model of the Ehlers-Danlos Syndrome col5a1 HAPLOINSUFFICIENCY DISRUPTS COLLAGEN FIBRIL ASSEMBLY AT MULTIPLE STAGES [®] Receved for publication, October 24, 2005, and in revised form, January 23, 2006. Published, JBC Papers in Press, February 20, 2006, DOI 10.1074/JbC.M511528200 Richard J. Wenstrup ²¹ , Jane B. Florer ² , Jeffrey M. Davidson ⁵ , Charlotte L. Phillips ⁴ , Brent J. Pfeiffer ⁴ , Diana W. Menezes ¹ . Inna Chervoneva ⁴⁺ , and David E. Birk ¹
The American Journal of Pathology, Vol. 11 ELSEVIER	15, No. 5, May 2015 The American Journal of PATHOLOGY ajp.amjpathol.org
MUSCULOSKELETAL PATHOLOGY Targeted Deletion of Collagen V in Tendons and Ligaments Results in a Classic Ehlers-Danlos Syndrome Joint Phenotype Mei Sun,* Brianne K. Connizzo, [†] Sheila M. Adams,* Benjamin R. Freedman, [†] Richard J. Wenstrup, [†] Louis J. Soslowsky, [†] and David E. Birk*	







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