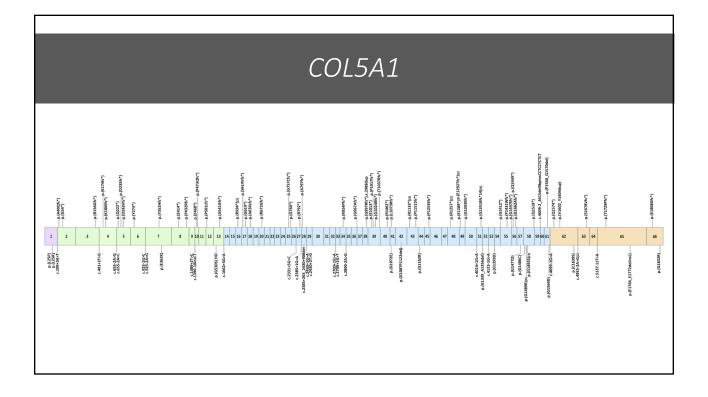
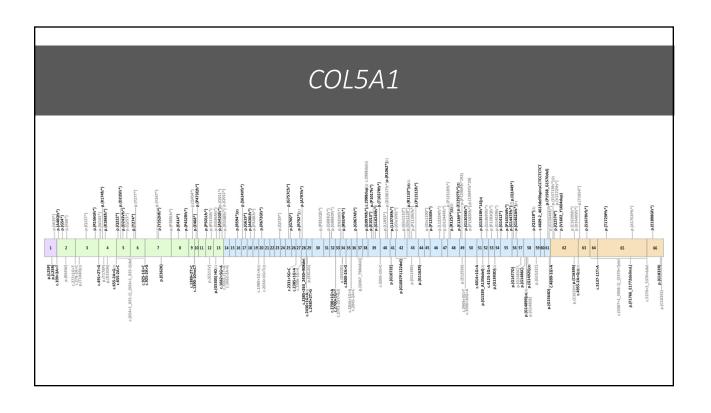


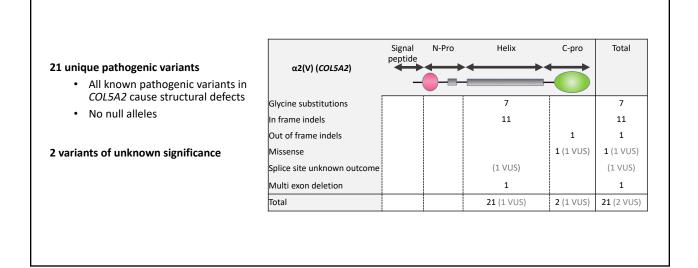
	COL5A	41				
99 unique pathogenic variants		Signal	N-Pro	Helix	C-pro	Total
 >50% premature termination codons -> null alleles 27,8% structural defects 	α1(V) (<i>COL5A1</i>)	peptide				lotal
	Glycine substitutions		(1 VUS)	9	1	10 (1 VUS)
7 families with only null allele	In frame indels		5 (1 VUS)	3	3	11 (1 VUS)
8 variants of unknown significance	Premature termination codons		17	35	4	56
	Missense	2	1 (1 VUS)	(2 VUS)	2	5 (3 VUS)
	Splice site unknown outcome	1	2 (1 VUS)	10 (2 VUS)	2	15 (3 VUS)
	Multi exon deletion			2		2
	Total	3	25 (3 VUS)	59 (4 VUS)	13	99 (8 VUS)

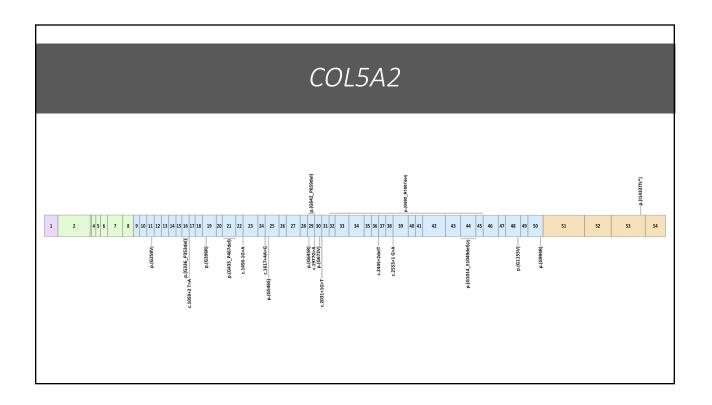




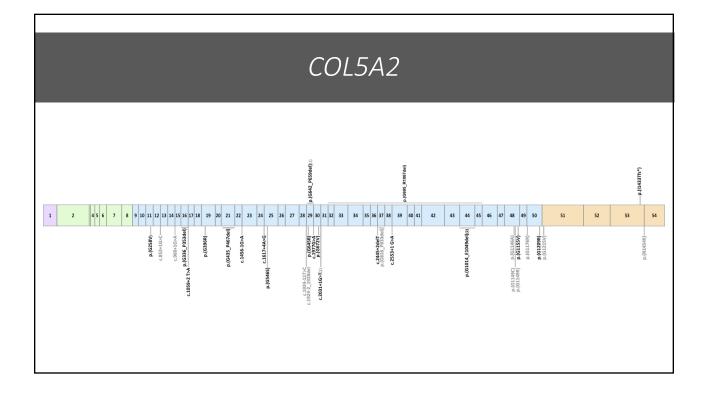
Scientific Meeting on the Rarer Types of EDS: From Genetics to Management







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Clinical features Patients Evaluated in our center

Pathogenic variants

- Clinical criteria: median 2 major 5 minor
- A degree of skin hyperextensibility, atrophic scarring in 95%
- Easy bruising, skin fragility, soft, doughy skin and complications of joint hypermobility in >90%
- Molluscoid pseudotumors and subcutaneous spheroids:
 - relatively rare and unknown features
 - highly diagnostic features when present.

Clinical diagnosis + VUS median major 1,5, 5,5 minor Clinical Diagnosis + No defect median 2 major, 5 minor

No significant differences between the 3 groups



Vascular complications in cEDS

COL5A1

3 individuals

- p.(Gly1564Asp)
 Rupture of mesenteric artery
- (De Leeuw et al. 2012) 2. p.(Gly619*)
- Dissection of carotid artery
 clinical diagnosis + VUS p.(Gly493Arg)
- dissection of common hepatic artery + pseudoaneurysm of right hepatic artery

COL5A2

no known vascular complications

COL1A1 p.(Arg312Cys)

Our cohort

4 patients (3 families) • dissection of right iliac artery (Malfait et al. 2007)

Literature

18 other patients (5 families) reported in literature

Total

21 patients Life threatening vascular complications in 4 patients

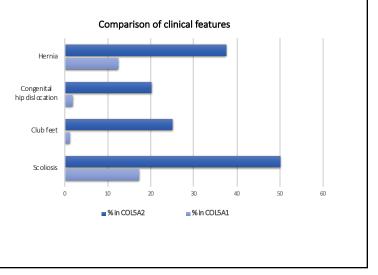


Genotype – phenotype correlations *COL5A1* vs *COL5A2*

 No difference in number of clinical criteria present

(Fischer's Exact p-value= >0,99)

• causal variants in COL5A2 seem to cause a more severe disease



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