

1 Supplemental table 1 *Individual patients characteristics and criteria for diagnosis of X-AS.*

Patient ID	Family history	GBM EM	EBM α 5	COL4A5 mutation	Deafness	Ocular lesions	Age ProtU	Age CKD	Age ESRD	Age F/U
#1	No	Abn	S	Yes	Yes	Yes	1.9	15.8	20.2	20.5
#2	Yes	Abn	A	Yes	No	No	-	-	-	22.3
#3	Yes	Abn	S	Yes	Yes	No	7.8	24.5	-	24.9
#4	Yes	Abn	S	Yes	Yes	No	23.2	27	-	35.1
#5	Yes	Abn	A	N/I	Yes	No	16.9	-	-	30.5
#6	Yes	Abn	A	Yes	Yes	No	6.1	15.8	20.9	27.0
#7	Yes	Abn	S	Yes	Yes	No	5.2	15.4	16.3	16.3
#8	Yes	Abn	S	N/I	No	No	7.8	13.3	14.4	19.4
#9	Yes	Abn	S	Yes	Yes	No	9.2	18.9	20.7	21.2
#10	Yes	Abn	A	Yes	Yes	No	1.9	11.8	-	19.3
#11	Yes	Abn	A	Yes	Yes	Yes	2.1	20.2	-	31.9
#12	Yes	Abn	A	Yes	Yes	No	2.8	10.9	17.8	18.3
#13	Yes	Abn	A	Yes	Yes	No	2.8	22.6	-	22.6
#14	Yes	Abn	A	Yes	Yes	N/A	7.1	19.8	22.4	22.4
#15	Yes	Abn	A	Yes	Yes	No	7.2	14.1	15.2	17.3
#16	No	Abn	A	Yes	Yes	Yes	9.9	16.5	18.2	26.8
#17	Yes	Abn	A	Yes	Yes	No	7.9	10.2	17.2	18.2
#18	Yes	Abn	A	Yes	Yes	No	8.2	13.9	15.9	16.9
#19	Yes	Abn	A	N/A	Yes	No	6.1	14.9	17.3	17.3
#20	Yes	Abn	A	N/A	No	No	8.7	-	-	10.1
#21	Yes	Abn	A	N/A	No	No	2.9	-	-	5.4
#22	Yes	Abn	A	N/A	N/S	N/S	4.6	-	-	5.9

2 Ages are expressed in years. Abbreviations: Abn = abnormal; A = absent; S = segmental; D =

3 diffuse; ProtU=proteinuria; F/U=follow-up; N/I=not identified; N/A=not available