Supplemental Table 1 – Mutations found at ABCD1 gene in the present X-ALD heterozygote women, and the distribution of ages at examination and at onset of symptoms.

Mutations (exon)	Number of women	Age at examination	Age at onset of symptoms
	Total (asymptomatic women, when present)	median ± dp (variation), when possible	
	33 (4)	41.2 ± 11.9	39.4 ± 10 (21-59)
p.Ala232fsX64, family 21 (Exon 2)	1	24	22
p.Gly266Arg, family 12 (Exon 2)	2	25 and 47	21 and 42
p.Tyr296Cys, family 24 (Exon 2)	2	43 and 44	38 and 42
p.Trp326X, family 6 (Exon 2)	2	25 and 50	24 and 43
p.Ser358X, family 37 (Exon 2)	1	36	33
p.Arg401Trp, family 32 (Exon 3)	1	48	45
p.Arg401Gly, family 52 (Exon 3)	1	35	34
p.Arg401Trp, family 58 (Exon 3)	1	40	39
p.Gly512Ser, family 1 (Exon 6)	2 (1)	52	46
p.Arg518Gln, family 10 (Exon 6)	7	44.6 ± 8 (32-55)	36.7 ± 7 (26-44)
p.Glu577X, family 8 (Exon 7)	2 (1)	55	50
p.Trp601X, family 3 (Exon 8)	1 (1)		?
p.Ser606Leu, family 2 (Exon 8)	2 (1)	49	43
p.Arg617His, family 4 (Exon 8)	5	48 ± 12 (27-56)	45 ± 11 (26-55)
p.Leu628Glu,	1	45	41

family 27			
(Exon 9)			
p.Trp679X,	2	41 and 61	39 and 59
family 23			
(Exon 10)			