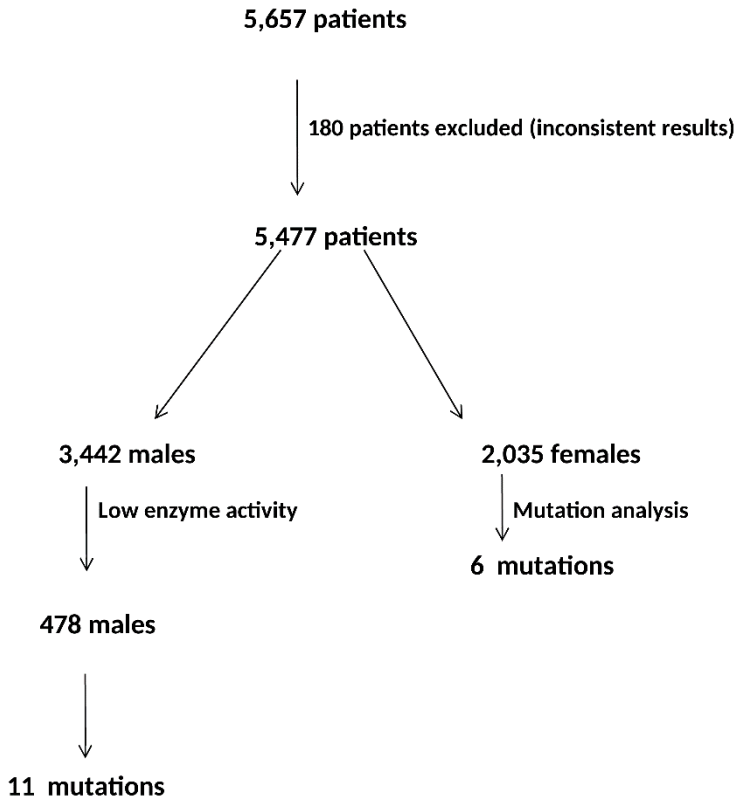
Suppl. Figure 1. The screening fluxogram for Fabry disease patients.



Suppl. Table 1. Questionnaire for patients with α-Gal mutation.

Acroparesthesia	
Telangiectasia, angiokeratoma	
Heat, exercise intolerance	
Hypo- or hyperhidrosis	
Mouth dryness	
Stroke history	
Hearing impairment	
Frequent abdominal pain, diarrhea	
Left ventricular hypertrophy on echo	
Ophthalmological exam	
Neurological exam	

Suppl. Table 2. Demographic distribution of the screened patients.

Geographical region	Estimated population	Number of screened patients (Tx/HD)	Number of index cases
Marmara	25 million	3,974 (2,626/1,348)	7
Central Anatolia	13 million	190 (61/129)	4
Black Sea	8 million	141 (141/0)	-
Aegean	10 million	700 (646/54)	1
Mediterranean	10 million	652 (348/304)	5

Suppl. Table 3. Low enzyme activity frequency in each center.

Centers	Low enzyme activity in males (%)	Number of detected mutations
1	29/227 (12.7%)	1
2	36/276 (13%)	-
3	40/421 (9.5%)	-
4	28/166 (16.9%)	-
5	14/112 (12.5%)	-
6	7/38 (18.4%)	-
7	31/192 (16.1%)	-
8	10/70 (14.3%)	-
9	4/68 (5.9%)	-
10*	13/36 (36.1%)	4
11	0/19 (0%)	-
12	21/138 (15.2%)	-
13	18/70 (25.7%)	
14	11/61 (18%)	-
15	35/600 (5.8%)	4
16	10/54 (18.5%)	-
17	12/70 (17.1%)	2
18	60/133 (45.1%)	-
19	1/35 (2.9%)	-
20	0/24 (0%)	-
21	61/321 (19%)	
22	0/8 (0%)	-
23	6/47 (12.8%)	-
24†	102/115 (88.7%)	-
25	4/55 (7.3%)	-
26	6/36 (16.7%)	-
27	21/165 (12.7%)	-

**Different laboratory and threshold values were used for the patients*

†*Excluded from the study*

Suppl. Table 4. Clinical characteristics of the patients with D313Y mutation.

No.	Age/Sex	Etiology	RRT	FD signs
1	34/ F	Unknown	Tx	-
2	31/F	Unknown	Tx	-
3	69/F	Unknown	Tx	-
4	39/F	Unknown	Tx	-
5	33/F	Neurogenic bladder	Tx	-
6	43/F	MPGN	Tx	-
7	68/F	Unknown	Tx	-
8	34/F	Unknown	Tx	-
9	45/F	Unknown	Tx	-
10	36/F	Unknown	Tx	-
11	53/F	Unknown	Tx	-
12	53/F	ADPKD	Tx	-
13	45/M	Unknown	Tx	-
14	53/F	Unknown	PD	Migraine-like symptoms
15	58/F	Unknown	HD	Acroparesthesia, heat intolerance, gut disorders
16	56/F	Unknown	HD	-
17	48/F	Unknown	Tx	-
18	67/F	Unknown	Tx	-
19	38/F	Unknown	Tx	-

ADPKD: autosomal dominant polycystic kidney disease, FD: Fabry disease, HD: hemodialysis, MPGN: membranoproliferative glomerulonephritis, PD: peritoneal dialysis, RRT: renal replacement therapy, Tx: transplant

Suppl. Table 5. Family screening of patients with D313Y mutation.

Index patients	**Screened family members (n:16)**	**Family members with mutation (n: 2)**	**Fabry disease signs**
1	Mother Father	- -	-
2	Sister	-	-
3	2 daughters	One daughter	White matter lesions on MRI
4	2 sons	-	-
5	Sister Daughter	- -	-
6	Son 2 brothers	- -	-
7	Sister Brother	- -	-
8	2 daughters	-	-