

**Table 3:** Otorhinolaryngological manifestations of 42 patients with mucopolysaccharidoses (MPSs) before and after receiving any ENT surgeries.  
(URTI, upper respiratory tract infection; OSAS, obstructive sleep apnea syndrome; AHI, apnea-hypopnea index.)

Patient	MPS	Age	Gender	Numbers of otitis media episodes per year	Hypoacusia	Degree of adenoid hypertrophy before surgery	Degree of adenoid hypertrophy after surgery	Degree of tonsillar hypertrophy before surgery	Degree of tonsillar hypertrophy after surgery	Numbers of URTI episodes per year	OSAS AHI
1	I	39	male	3	sensorineural	1	No surgery	0	No surgery	2	29.1
2	I	28	female	5	normal	2	2	0	0	5	
3	I	40	male	2	sensorineural	1	No surgery	0	No surgery	4	
4	I	7	female	7	sensorineural	4	3	2	1	6	
5	I	7	female	6	mixed	4	3	2	0	5	
6	I	19	male	2	normal	2	1	2	1	1	49.8
7	I	21	male	3	conductive	4	3	3	2	3	
8	II	26	male	1	mixed	2	1	2	0	3	
9	II	23	male	5	mixed	3	1	2	0	7	
10	II	29	male	3	sensorineural	2	1	1	1	1	
11	II	27	male	1	mixed	1	No surgery	1	No surgery	2	
12	II	31	male	3	mixed	2	1	2	1	3	56.1
13	II	26	male	4	mixed	1	No surgery	1	No surgery	3	
14	II	16	male	6	mixed	3	2	3	2	6	
15	II	26	male	8	mixed	3	2	3	1	8	

16	II	13	male	4	mixed	4	2	3	1	7	
17	II	8	male	6	normal	4	2	3	1	6	
18	II	8	female	2	mixed	3	1	3	1	1	
19	II	6	male	4	conductive	3	1	3	1	3	
20	II	17	male	7	conductive	3	3	2	2	9	
21	II	7	male	1	mixed	2	1	2	0	1	
22	II	5	male	6	mixed	4	2	3	2	8	39
23	IIIB	8	male	1	mixed	4	1	3	0	2	
24	IIIB	7	female	4	normal	1	No surgery	0	No surgery	2	
25	IIIB	11	male	8	mixed	2	1	1	0	1	
26	IIIB	6	female	6	mixed	4	3	3	2	8	
27	IIIB	24	female	2	normal	1	No surgery	1	No surgery	3	
28	IIIB	24	female	1	normal	1	No surgery	1	No surgery	2	
29	IIIB	6	male	3	normal	4	No surgery	2	No surgery	3	
30	IIIB	7	female	1	mixed	4	3	3	2	4	
31	IVA	34	male	3	sensorineural	3	1	2	0	6	26.2
32	IVA	10	male	2	conductive	4	No surgery	2	No surgery	5	
33	IVA	25	female	7	sensorineural	3	1	2	0	8	
34	IVA	9	male	0	sensorineural	3	No surgery	2	No surgery	9	
35	IVA	32	male	1	conductive	1	1	0	0	5	
36	IVA	22	male	0	mixed	2	1	2	1	6	
37	IVA	15	male	2	mixed	2	2	3	1	7	

38	IVA	20	female	1	normal	3	2	4	2	1	
39	IVA	30	male	1	conductive	3	3	2	2	8	45.9
40	VI	21	male	5	conductive	4	3	4	2	7	55.8
41	VI	22	male	7	mixed	3	1	3	0	6	83.1
42	VI	27	female	6	conductive	2	1	1	0	1	17.6