

Supplementary Online Content

Pathmanaban ON, Sadler KV, Kamaly-Asl ID, et al. Association of genetic predisposition with solitary schwannoma or meningioma in children and young adults. *JAMA Neurol*. Published online July 31, 2017. doi:10.1001/jamaneurol.2017.1406

eTable 1. NF2 Patients Diagnosed <25 With an Apparently Isolated Meningioma or Non-Vestibular Schwannoma and Subsequent Tumour Development

eTable 2. Characteristics of NF2 Patients Diagnosed <25 With an Apparently Isolated Vestibular Schwannoma and Subsequent Tumour Development

This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. NF2 Patients Diagnosed <25 With an Apparently Isolated Meningioma or Non-Vestibular Schwannoma and Subsequent Tumour Development

Case	Presenting tumour	Age at Meningioma (years)	Age at cutaneous schwannoma (years)	Age at spinal schwannoma (years)	Age at VS (years)	First tumour to VS (years)	Mosaic	NF2 diagnosed before mutation testing
1	Meningioma	1	NA	16	15	14	No	Yes
2	Meningioma	2	NA	10	7	5	Yes	Yes
3	Meningioma	2	3	NA	NA	NA	Unknown	Yes
4	Meningioma	2	3	NA	NA	NA	No	No
5	Meningioma	3	4	9	8	5	No	No
6	Meningioma	3	34	36	23	20	No	Yes
7	Meningioma	3	NA	Unknown	NA	NA	Yes	No
8	Meningioma	4	24	22	16	12	No	Yes
9	Meningioma	4	NA	NA	NA	NA	No	No
10	Meningioma	5	6	6	NA	NA	No	No
11	Meningioma	7	NA	NA	NA	NA	No	No
12	Meningioma	8	NA	NA	NA	NA	No	No
13	Meningioma	9	NA	10	NA	NA	No	No
14	Meningioma	9	NA	10	NA	NA	No	No
15	Meningioma	9	NA	NA	NA	NA	No	Yes
16	Meningioma	9	NA	NA	NA	NA	No	No
17	Meningioma	9	NA	NA	NA	NA	No	No
18	Meningioma	10	11	14	11	1	No	Yes
19	Meningioma	10	NA	15	17	7	No	Yes
20	Meningioma	10	18	15	18	8	No	Yes
21	Meningioma	10	NA	24	19	9	No	Yes
22	Meningioma	10	30	26	21	11	Yes	Yes
23	Meningioma	11	NA	NA	18	7	No	No
24	Meningioma	13	14	14	14	1	No	Yes
25	Meningioma	13	23	23	15	2	No	Yes
26	Meningioma	15	27	15	24	9	Unknown	Yes
27	Meningioma	16	NA	NA	17	1	No	Yes

28	Meningioma	18	24	26	20	2	Yes	Yes
29	Meningioma	21	NA	23	23	2	No	Yes
30	Spinal schwannoma	21	NA	6	13	7	No	Yes
31	Spinal schwannoma	NA	NA	6	NA	NA	No	No
32	Spinal schwannoma	NA	NA	6	NA	NA	NA	No
33	Spinal schwannoma	9	7 (only found on closer examination after gene testing)	7	NA	NA	No	No
34	Spinal schwannoma	NA	NA	9	10	9	No	Yes
35	Spinal schwannoma	13	16	10	13	3	No	Yes
36	Spinal schwannoma	NA	15	10	NA	16	Yes	Yes
37	Spinal schwannoma	16	NA	12	15	3	Unknown	Yes
38	Spinal schwannoma	15	12 (only found on closer examination after gene testing)	12	15	3	No	Yes
39	Spinal schwannoma	21	21	12	18	6	No	Yes
40	Spinal schwannoma	NA	20	13	16	3	No	Yes
41	Spinal schwannoma	16	NA	15	16	1	No	Yes
42	Spinal schwannoma	NA	16	16	17	1	Yes	No
43	Spinal schwannoma	27	23	19	23	4	Unknown*	Yes
44	Spinal schwannoma	29	NA	20	30	9	Yes	Yes
45	Spinal schwannoma	NA	NA	20	45	25	No	Yes
46	Cutaneous schwannomas	24	2	10	13	11	No	Yes
47	Cutaneous schwannomas	33	3	19	16	13	No	Yes
48	Cutaneous schwannomas	NA	5	10	10	5	No	Yes
49	Cutaneous schwannomas	16	5	16	15	10	No	Yes
50	Cutaneous schwannomas	17	5	17	17	12	No	Yes
51	Cutaneous schwannomas	NA	6	13	8	2	No	Yes
52	Cutaneous schwannomas	19	7	23	20	13	No	Yes
53	Cutaneous schwannomas	NA	7	23	23	16	No	Yes

54	Cutaneous schwannomas	11	8	11	11	3	No	No
55	Cutaneous schwannomas	15	8	NA	17	9	No	Yes
56	Cutaneous schwannomas	NA	9	NA	13	4	No	Yes
57	Cutaneous schwannomas	NA	9	NA	15	6	No	Yes
58	Cutaneous schwannomas	NA	10	18	18	8	Yes	Yes
59	Cutaneous schwannomas	17	11	17	17	6	No	Yes
60	Cutaneous schwannomas	NA	12	NA	13	1	No	Yes
61	Cutaneous schwannomas	NA	12	15	13	1	No	Yes
62	Cutaneous schwannomas	NA	12	15	16	4	No	Yes
63	Cutaneous schwannomas	17	12	17	17	5	No	Yes
64	Cutaneous schwannomas	16	13	NA	15	2	No	Yes
65	Cutaneous schwannomas	20	13	17	17	4	Yes	Yes
66	Cutaneous schwannomas	21	16	17	17	1	No	Yes
67	Cutaneous schwannomas	19	17	19	18	1	No	Yes
68	Cutaneous schwannomas	19	17	19	19	2	Yes	Yes
69	Cutaneous schwannomas	NA	18	25	23	5	No	Yes

^aNF2 mutation not found in tumour

eTable 2. Characteristics of NF2 Patients Diagnosed <25 With an Apparently Isolated Vestibular Schwannoma and Subsequent Tumour Development

Case	Sex	Age at UVS (years)	Years since UVS	VS status at last follow up	Spinal schwannoma	Age spinal (years)	Cranial meningioma	Age at meningioma (years)	Cutaneous schwannoma	Age at cutaneous schwannoma (years)	Delay to second tumour (years)	NF2 diagnosed before mutation testing	NF2 mutation type	Mosaic
70	F	1	1	Bilateral	No	NA	No	NA	No	NA	1	No	Nonsense	Yes
71	M	1	2	Unilateral	No	NA	No	NA	No	NA	NA	No	Nonsense	No
72	M	10	19	Unilateral	Yes	20	No	NA	Yes	24	10	Yes	Frameshift deletion	Yes
73	F	13	13	Bilateral	Yes	26	Yes	24	No	NA	11	Yes	Frameshift deletion	No
74	F	13	1	Unilateral	No	NA	No	NA	No	NA	NA	No	Large deletion	No
75	F	16	9	Unilateral	Yes	21	Yes	21	Yes	21	5	Yes	Frameshift deletion	Yes
76	M	16	1	Unilateral	No	NA	No	NA	No	NA	NA	No	Splice Donor Site	No
77	M	18	2	Unilateral	Yes	19	No	NA	No	NA	1	Yes	Nonsense	Yes
78	M	18	7	Bilateral	Yes	25	No	NA	Yes	25	7	Yes	Frameshift deletion	No
79	F	18	6	Unilateral	No	NA	No	NA	No	NA	NA	No	Large deletion	Yes
80	M	18	9	Unilateral	No	NA	Yes	27	No	NA	NA	No	Splice Donor Site	Yes
81	F	19	1	Unilateral	Yes	unknown	No	NA	Yes	20	1	Yes	Not identified	Unknown
82	F	19	1	Unilateral	No	NA	No	NA	No	NA	NA	No	Large deletion	No
83	M	20	1	Unilateral	Yes	21	No	NA	Yes	21	1	Yes	Large deletion	Yes
84	F	20	1	Bilateral	No	NA	No	NA	No	NA	1	Yes	Nonsense	No
85	F	20	10	Bilateral	Yes	30	No	NA	No	NA	10	No	Not identified	No

86	F	21	2	Bilateral	No	NA	No	NA	No	NA	2	Yes	Nonsense	Yes
87	M	21	4	Bilateral	No	NA	No	NA	No	NA	4	Yes	Large deletion	Yes
88	F	22	20	Unilateral	Yes	32	Yes	32	No	NA	10	Yes	Not identified	No

NB: When an *NF2* mutation was not identified in lymphocyte DNA the diagnosis was made based on clinical criteria.