

**S3 Table. The effectiveness evaluation of the cut-offs for differentiating PCH and TCH**

Patient	Gender	Age* (year)	TSH* (mIU/l)	FT4* (pmol/l)	L-T4 dose at 90 days after diagnosis (µg/day)	Clinical Phenotype by thyroid function tests	Predictor result by		
							TSH* (cutoff: 97.1mIU/l)	FT4* (cutoff: 4.6pmol/l)	L-T4 dose at 90 days (cutoff: 30µg/day)
1	male	NS	>100	3.73	37.5	PCH	✓	✓	✓
2	male	NS	40.64	8.19	16.7	TCH	✓	✓	✓
3	male	NS	>100	1.9	25	TCH	×	×	✓
4	female	NS	>100	1.16	25	TCH	×	×	✓
5	female	NS	>100	9.91	16.7	TCH	×	✓	✓
6	male	NS	>100	2.27	37.5	PCH	✓	✓	✓
7	female	NS	83.13	10.44	16.7	TCH	✓	✓	✓
8	female	NS	>100	6.22	37.5	PCH	✓	×	✓
9	male	NS	>100	3.8	37.5	PCH	✓	✓	✓
10	female	NS	37.38	11.36	25	TCH	✓	✓	✓
11	female	NS	>100	1.25	50	PCH	✓	✓	✓
12	male	NS	86.4	9.91	20	TCH	✓	✓	✓
13	female	NS	>100	6.11	37.5	PCH	✓	×	✓
14	female	NS	>100	1.83	37.5	PCH	✓	✓	✓
15	female	NS	>100	7.27	25	TCH	×	✓	✓
16	female	NS	>100	3.78	20	TCH	×	×	✓
17	female	NS	85	5.8	10.5	TCH	✓	✓	✓
18	female	NS	>100	1.87	16.7	TCH	×	×	✓
19	male	NS	90	8.14	25	TCH	✓	✓	✓
20	male	NS	50.24	10.33	25	TCH	✓	✓	✓
21	female	NS	>100	2.68	0	TCH	×	×	✓
22	female	NS	>100	2.64	31.23	TCH	×	×	×
23	male	NS	>100	2.83	37.5	PCH	✓	✓	✓
24	female	NS	>100	4.54	25	TCH	×	✓	✓
25	female	NS	>100	1.8	37.5	PCH	✓	✓	✓
26	female	NS	>100	2.43	20	TCH	×	×	✓
27	female	NS	93.78	8.74	16.7	TCH	✓	✓	✓
28	male	NS	>100	3.87	37.5	PCH	✓	✓	✓
29	male	NS	>100	3.34	37.5	TCH	×	×	×
30	male	NS	>100	1.83	25	TCH	×	×	✓
31	female	NS	23.88	10.54	25	TCH	✓	✓	✓
32	male	NS	>100	4.7	16.7	TCH	×	✓	✓
33	female	NS	>100	0.61	37.5	PCH	✓	✓	✓
<b>Accuracy</b>							<b>60.6%</b>	<b>66.7%</b>	<b>93.9%</b>

\* Age, TSH, FT4 at diagnosis; NS: Newborn Screening