

Table 1. Clinical characteristics and endocrinologic parameters in carriers of 21-hydroxylase deficiency (21-OHD) and control subjects

	Carriers of 21-OHD (n=29)	Control subjects (n=13)	P-value*
Age (years)	41.8 ± 5.8	43.8 ± 6.1	0.332
Gender			0.739¶
Male	14 (48.3%)	5 (38.5%)	
Female	15 (51.7%)	8 (61.5%)	
Body mass index (BMI, kg/m²)	26.9 ± 5.4	24.1 ± 3.6	0.141
ACTH (pmol/L)			
-15 minutes	3.9 ± 3.1	2.2 ± 1.1	0.094
0 minutes	2.8 ± 1.5	2.0 ± 1.7	0.089
15 minutes	7.9 ± 7.5	8.3 ± 6.6	0.918
30 minutes	7.8 ± 4.8	8.2 ± 4.5	0.691
45 minutes	6.4 ± 2.7	6.8 ± 3.3	0.735
60 minutes	4.7 ± 1.8	5.4 ± 2.9	0.627
90 minutes	3.1 ± 1.4	3.1 ± 2.1	0.508
120 minutes	2.4 ± 1.3	2.4 ± 1.4	0.566
17-OHP (nmol/L)			
-15 minutes	8.2 ± 5.2	4.2 ± 2.4	0.001
0 minutes	7.1 ± 3.8	4.2 ± 2.4	0.003
15 minutes	9.1 ± 9.4	4.8 ± 2.7	0.004
30 minutes	11.2 ± 9.4	5.5 ± 2.7	0.001
45 minutes	12.1 ± 9.7	5.8 ± 3.3	<0.0001
60 minutes	10.0 ± 5.2	5.5 ± 3.0	0.001
90 minutes	7.9 ± 4.2	4.8 ± 2.7	0.010
120 minutes	7.3 ± 3.9	4.5 ± 2.7	0.006
Cortisol (nmol/L)			
-15 minutes	372.5 ± 168.3	314.5 ± 38.6	0.588
0 minutes	309.0 ± 143.5	281.4 ± 44.1	0.955
15 minutes	438.7 ± 126.9	372.5 ± 91.0	0.081
30 minutes	516.0 ± 121.4	488.3 ± 110.4	0.586
45 minutes	546.3 ± 110.4	524.2 ± 113.1	0.607
60 minutes	502.1 ± 104.8	535.2 ± 121.4	0.489
90 minutes	386.3 ± 74.5	438.7 ± 110.4	0.134
120 minutes	306.2 ± 93.8	331.1 ± 104.8	0.988

Continuous variables presented as mean ± standard deviation (SD); *Mann-Whitney p-value; ¶ Chi-squared p-value. Reference ranges: ACTH: 2.0-11.5 pmol/L; 17-OHP: Females Follicular phase: 0.3-3.3 nmol/L, Luteal phase: 2.9-13.0 nmol/L, Males: 0.8-3.6 nmol/L; Cortisol: 138-552 nmol/L; Androstenedione: Females: 1.9-8.7 nmol/L, Males: 2.1-10.8 nmol/L; Testosterone: Females: 0.347-4.16 nmol/L, Males: 9.9-52.4 nmol/L; DHEA-S: Females: 0.87-7.3 µmol/L, Males: 2.6-14.4 µmol/L; DHEA: 3.47-36.4 nmol/L; TSH: 0.4-4 mIU/L; FT3: 2.46-7.8 pmol/L; FT4: 9-20.5 pmol/L; PRL: Adult females: 0.08-1.09 nmol/L, Adult males: 0.11-0.74 nmol/L; CBG: Females: 687.2-2645.7 nmol/L, Males: 378.0-945.0 nmol/L; Glucose: 3.9-6.7 mmol/L; Insulin: 28.7-193.7 pmol/L; Cortisol, Urine: 13.8-179.4 nmol/day; Cortisol, Salivary: Morning hours: 8-10 a.m: <19.1 nmol/L, Afternoon hours: 2:30-3:30 p.m: <11.9 nmol/L, Midnight: 8.33 ± 3.62 nmol/L.

Table 1. (continued) Clinical characteristics and endocrinologic parameters in carriers of 21-hydroxylase deficiency (21-OHD) and control subjects

	Carriers of 21-OHD (n=29)	Control subjects (n=13)	P-value*
Androstenedione (nmol/L)			
-15 minutes	8.4 ± 4.5	5.2 ± 2.5	0.036
0 minutes	7.0 ± 3.1	5.2 ± 2.8	0.052
15 minutes	8.0 ± 3.5	6.3 ± 2.4	0.168
30 minutes	9.4 ± 3.8	7.7 ± 3.1	0.142
45 minutes	10.5 ± 3.5	8.0 ± 3.5	0.093
60 minutes	9.8 ± 3.1	8.4 ± 4.2	0.208
90 minutes	7.7 ± 2.4	7.0 ± 4.2	0.323
120 minutes	6.3 ± 2.8	5.6 ± 2.8	0.435
Testosterone (nmol/L)	6.9 ± 6.2	7.6 ± 10.4	0.901
DHEA-S (µmol/L)	4.0 ± 2.5	3.3 ± 2.0	0.750
DHEA (nmol/L)	25.7 ± 13.2	20.8 ± 11.8	0.353
TSH (mIU/L)	1.4 ± 0.8	1.4 ± 0.6	0.836
Free T3 (pmol/L)	5.2 ± 0.8	4.9 ± 0.5	0.226
Free T4 (pmol/L)	14.3 ± 2.0	14.4 ± 1.2	0.901
Prolactin (nmol/L)	0.31 ± 0.2	0.30 ± 0.1	0.879
CBG (nmol/L)	891.6 ± 240.7	891.6 ± 204.4	0.913
Glucose (mmol/L)	5.1 ± 0.7	5.1 ± 0.1	0.977
Insulin (pmol/L)	43.1 ± 68.2	33 ± 14.4	0.146
Cortisol, Urine (nmol/day)	101.9 ± 64.1	98.3 ± 75.7	0.874
Cortisol, Salivary (nmol/L)			
8:00 h	19.3 ± 15.1	11.0 ± 5.5	0.130
12:00 h	8.3 ± 8.3	5.5 ± 0.3	0.652
16:00 h	11.0 ± 16.6	2.8 ± 0.3	0.067
20:00 h	5.5 ± 5.5	2.8 ± 0.3	0.587
24:00 h	5.5 ± 2.8	5.5 ± 8.3	0.691

Continuous variables presented as mean ± standard deviation (SD); *Mann-Whitney p-value; ¶ Chi-squared p-value. Reference ranges: ACTH: 2.0-11.5 pmol/L; 17-OHP: Females Follicular phase: 0.3-3.3 nmol/L, Luteal phase: 2.9-13 nmol/L, Males: 0.8-3.6 nmol/L; Cortisol: 138-552 nmol/L; Androstenedione: Females: 1.9-8.7 nmol/L, Males: 2.1-10.8 nmol/L; Testosterone: Females: 0.347-4.16 nmol/L, Males: 9.9-52.4 nmol/L; DHEA-S: Females: 0.87-7.3 µmol/L, Males: 2.6-14.4 µmol/L; DHEA: 3.47-36.4 nmol/L; TSH: 0.4-4 mIU/L; FT3: 2.46-7.8 pmol/L; FT4: 9-20.5 pmol/L; PRL: Adult females: 0.08-1.09 nmol/L, Adult males: 0.11-0.74 nmol/L; CBG: Females: 687.2-2645.7 nmol/L, Males: 378.0-945.0 nmol/L; Glucose: 3.9-6.7 mmol/L; Insulin: 28.7-193.7 pmol/L; Cortisol, Urine: 13.8-179.4 nmol/day; Cortisol, Salivary: Morning hours: 8-10 a.m.: <19.1 nmol/L, Afternoon hours: 2:30-3:30 p.m.: <11.9 nmol/L, Midnight: 8.33 ± 3.62 nmol/L.