

## Supplementary Material

**Figure S1.** Grand mean olfactory ERP [ $\mu\text{V}$ ] waveforms (-100 to 1400 ms, 100 ms pre-stimulus baseline) referenced to linked mastoids for 21 CHR patients comparing weak, medium and strong  $\text{H}_2\text{S}$  stimuli and blank air at all 49 recording sites.

**Figure S2.** ERP waveforms as in Figure S1 for 20 healthy controls.

**Figure S3.** Average-referenced ERP waveforms for 21 CHR patients (cf. Fig. S1).

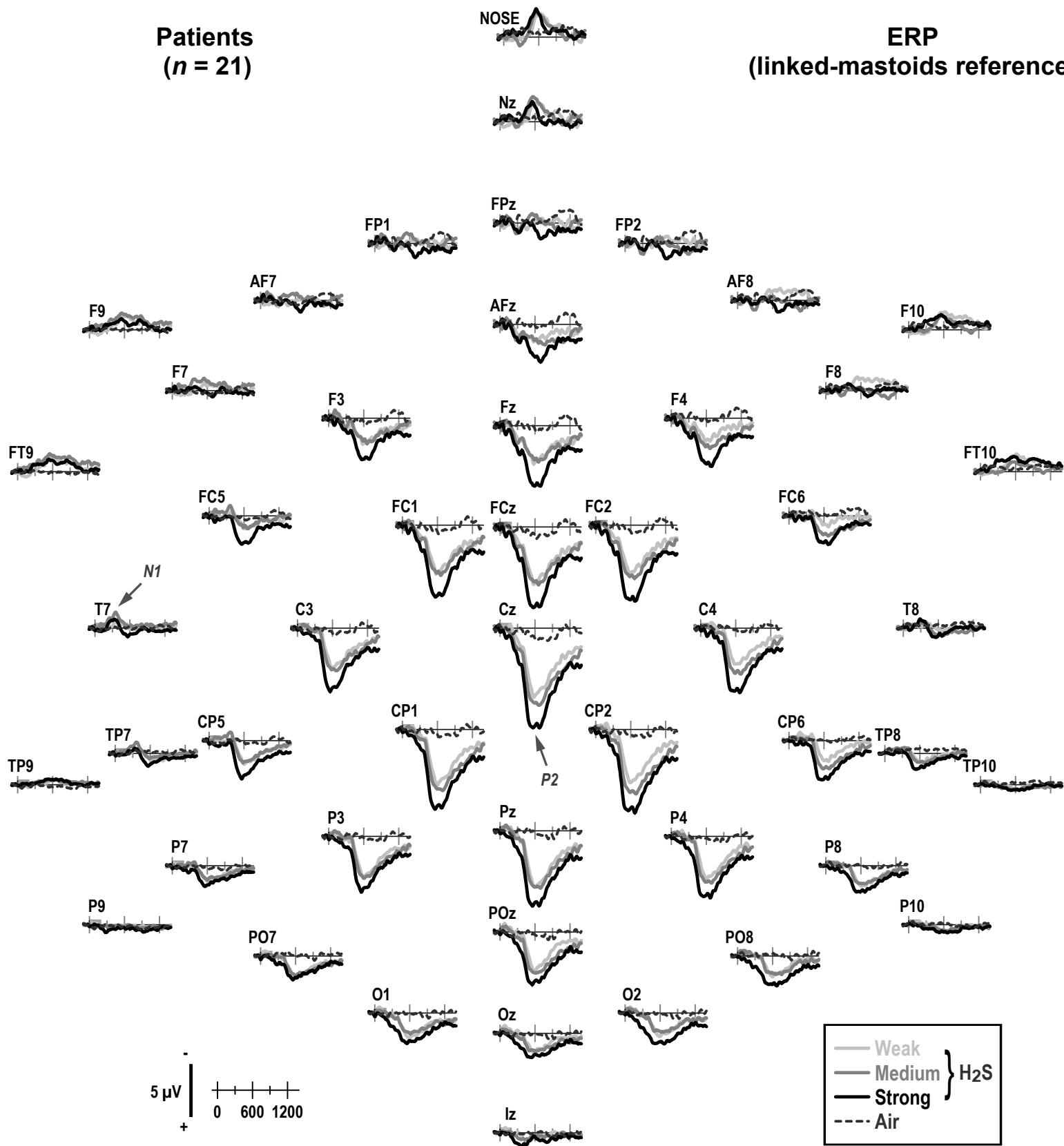
**Figure S4.** ERP waveforms as in Figure S3 for 20 healthy controls.

**Table S5.** Means ( $\pm\text{SD}$ ) of N1 sink (factor 345)

**Table S6.** Means ( $\pm\text{SD}$ ) of P2 source (factor 600)

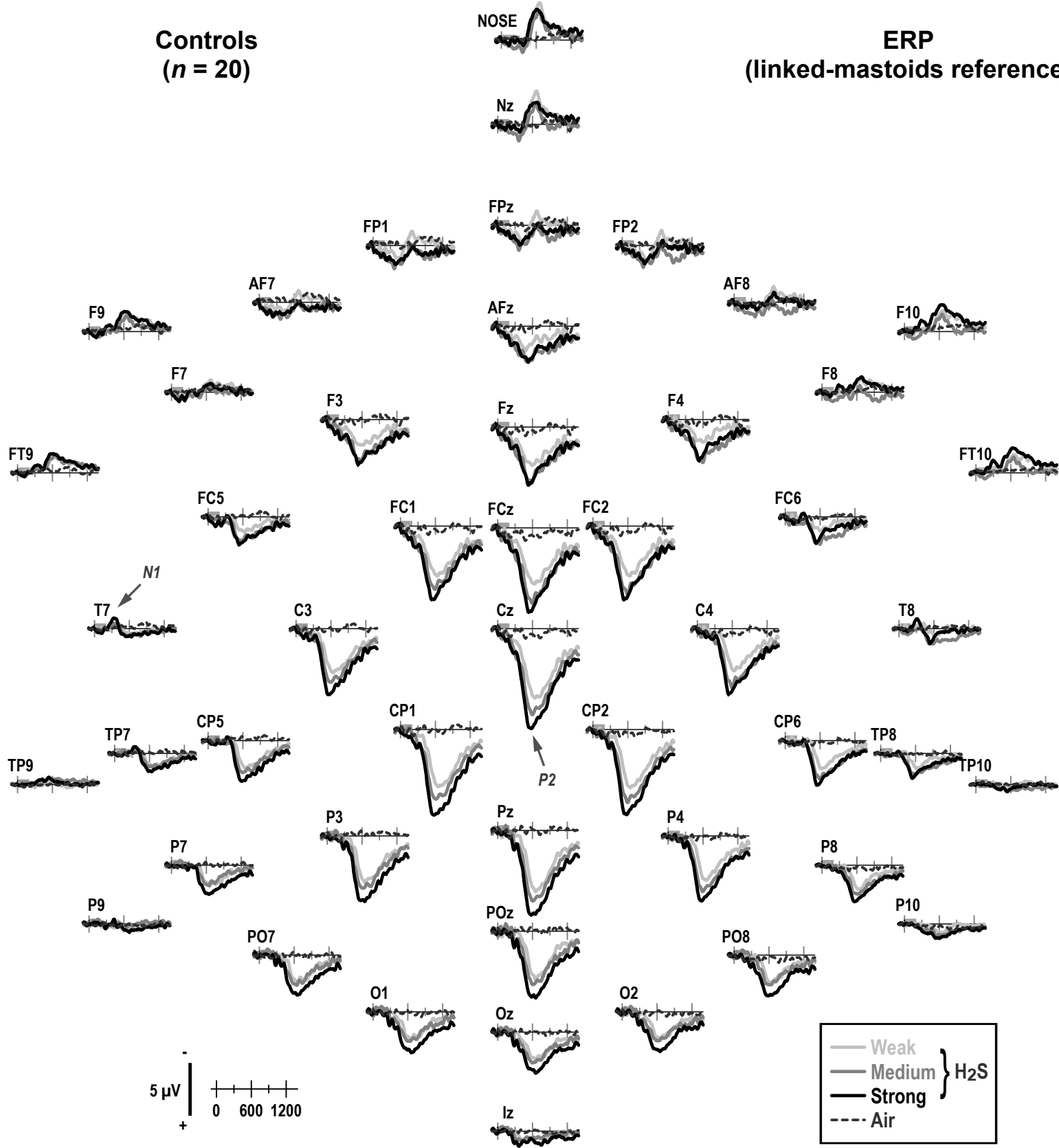
**Patients**  
(*n* = 21)

**ERP**  
(linked-mastoids reference)



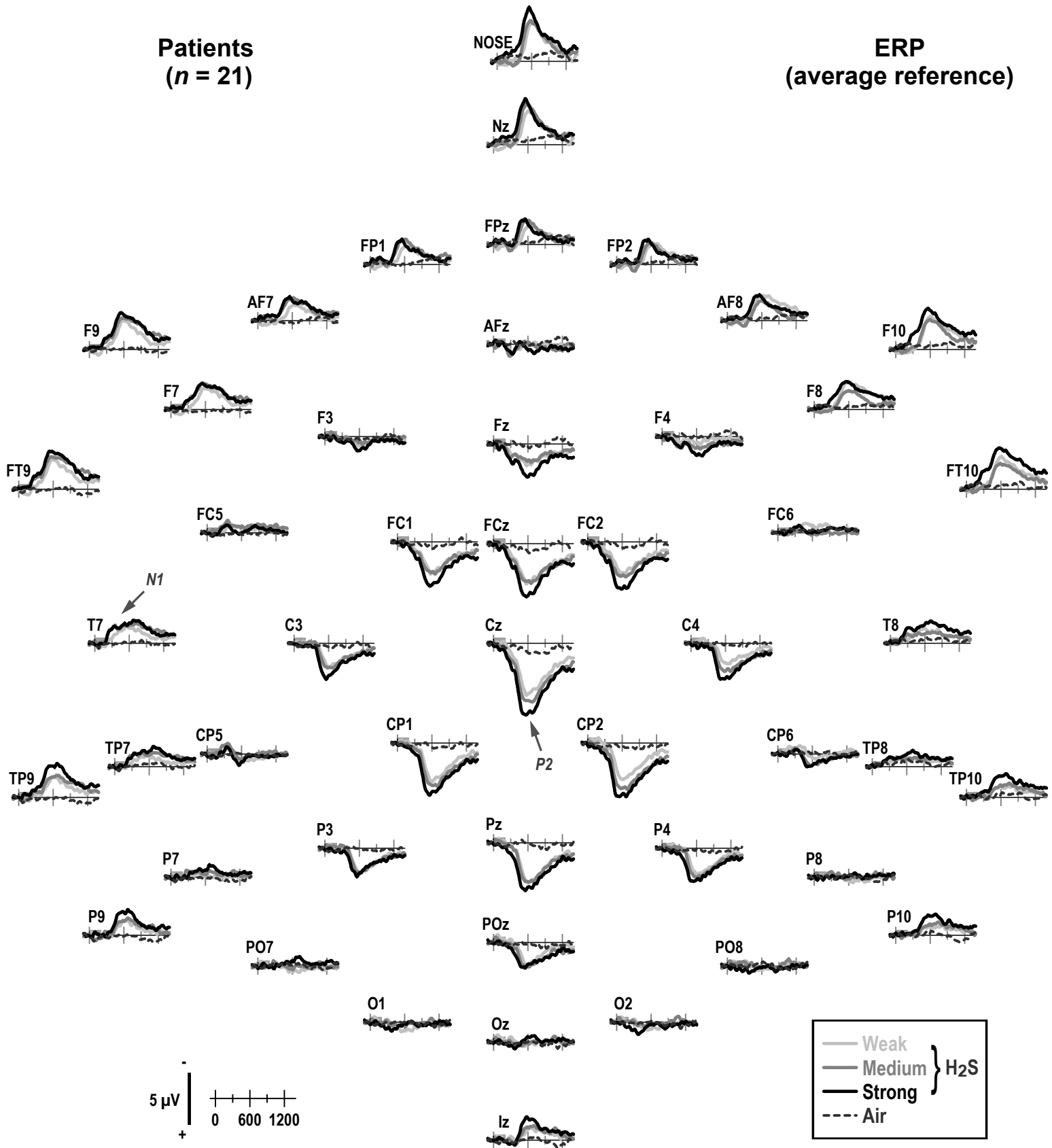
**Controls**  
(n = 20)

**ERP**  
(linked-mastoids reference)



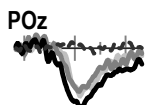
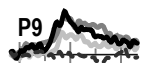
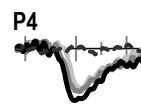
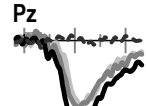
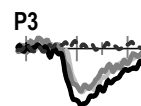
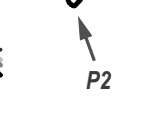
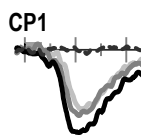
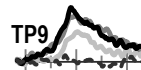
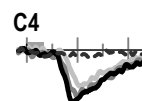
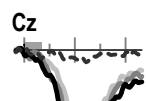
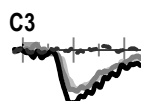
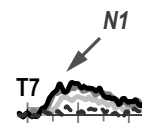
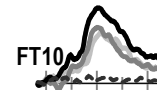
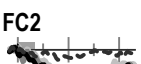
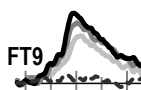
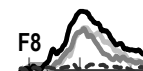
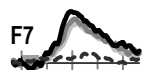
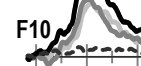
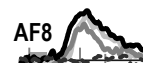
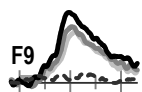
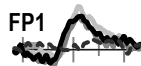
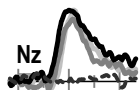
**Patients**  
( $n = 21$ )

**ERP**  
(average reference)

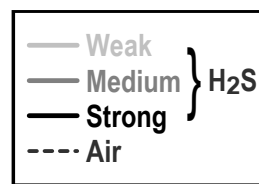
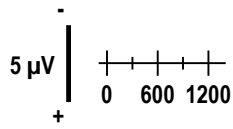


**Controls**  
(*n* = 20)

NOSE



**ERP**  
(average reference)



**Table S5.** Means ( $\pm$ SD) of N1 sink (factor 345)

		Sink activity at lateral-temporal and medial-frontocentroparietal sites (T7/8, FC5/6, C3/4, CP5/6)					
Odor Intensity		Weak		Medium		Strong	
	Hemisphere	Left	Right	Left	Right	Left	Right
Patients ( <i>n</i> = 21)	Male ( <i>n</i> = 13)	-0.35 $\pm$ 0.85	-0.42 $\pm$ 0.76	-0.76 $\pm$ 1.03	-0.80 $\pm$ 0.85	-0.72 $\pm$ 1.16	-0.74 $\pm$ 1.15
	Female ( <i>n</i> = 8)	-0.62 $\pm$ 0.86	-0.18 $\pm$ 0.97	-0.89 $\pm$ 0.99	-0.59 $\pm$ 1.03	-1.25 $\pm$ 1.21	-0.85 $\pm$ 1.11
Controls ( <i>n</i> = 20)	Male ( <i>n</i> = 13)	-0.34 $\pm$ 0.56	-0.24 $\pm$ 0.49	-0.68 $\pm$ 0.74	-0.74 $\pm$ 0.61	-1.10 $\pm$ 0.90	-1.04 $\pm$ 0.86
	Female ( <i>n</i> = 6)	-0.20 $\pm$ 0.69	-0.14 $\pm$ 0.53	-0.53 $\pm$ 0.50	-0.32 $\pm$ 0.54	-0.68 $\pm$ 0.71	-0.47 $\pm$ 0.59

**Table S6.** Means ( $\pm$ SD) of P2 source (factor 600)

		Source activity at mid-frontocentral and mid-parietal sites (FCz, FC1/2, Cz, C3/4, CP1/2, Pz, P3/4, POz)		
Odor Intensity		Weak	Medium	Strong
Patients ( <i>n</i> = 21)	Male ( <i>n</i> = 13)	0.45 $\pm$ 0.87	0.51 $\pm$ 0.75	0.77 $\pm$ 0.92
	Female ( <i>n</i> = 8)	1.03 $\pm$ 1.11	1.00 $\pm$ 0.99	1.12 $\pm$ 1.28
Controls ( <i>n</i> = 20)	Male ( <i>n</i> = 13)	0.54 $\pm$ 0.91	0.69 $\pm$ 0.89	0.95 $\pm$ 1.02
	Female ( <i>n</i> = 6)	0.71 $\pm$ 0.92	0.84 $\pm$ 0.70	0.94 $\pm$ 0.87