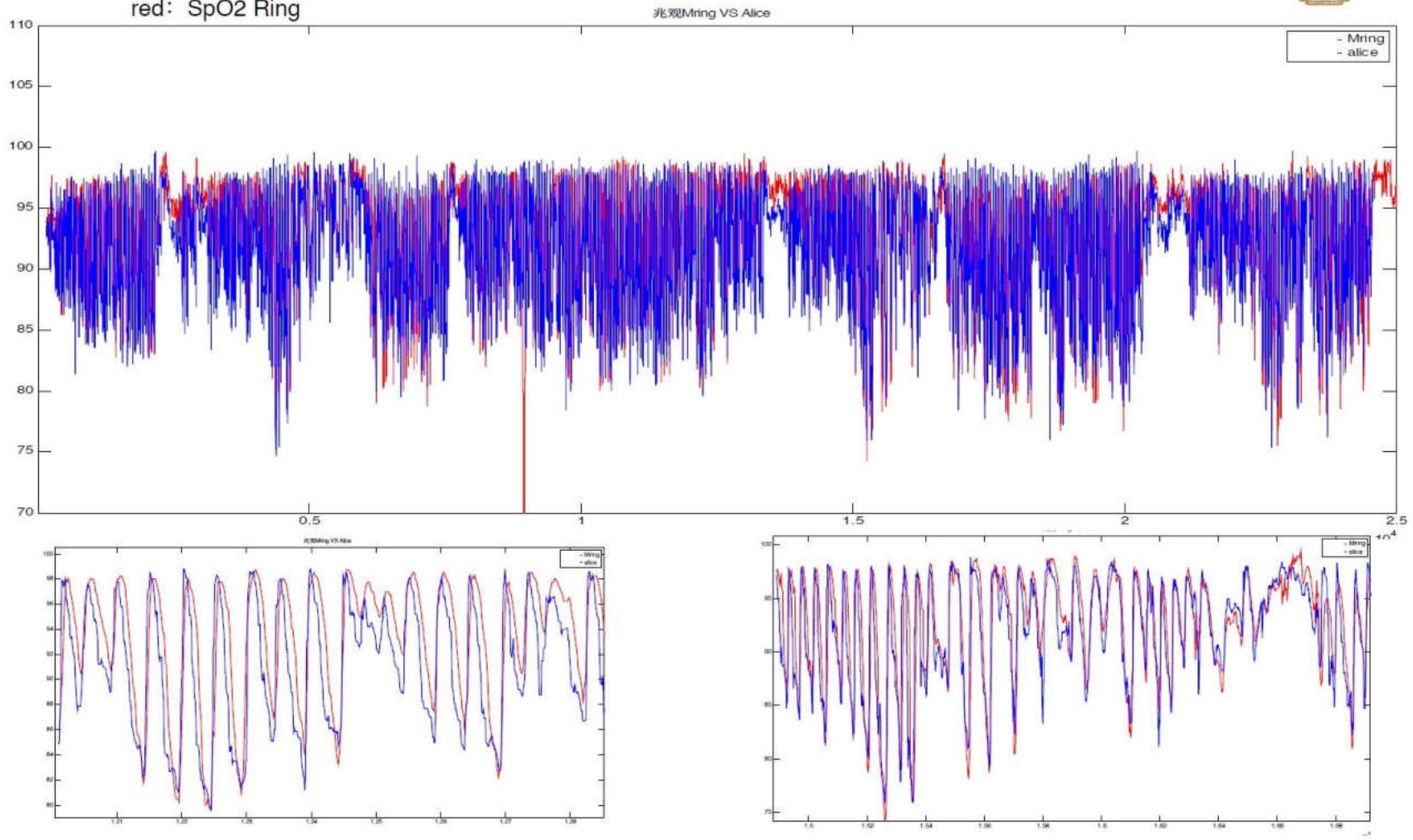
Clinical comparison between SpO2 ring and PSG Alice Oximeter

blue: Alice SpO2
red: SpO2 Ring

Zhejiang University, SRR Shaw Hospital sleep center



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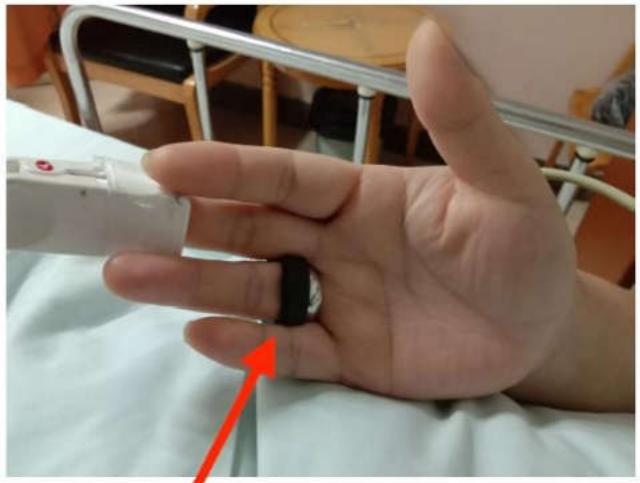
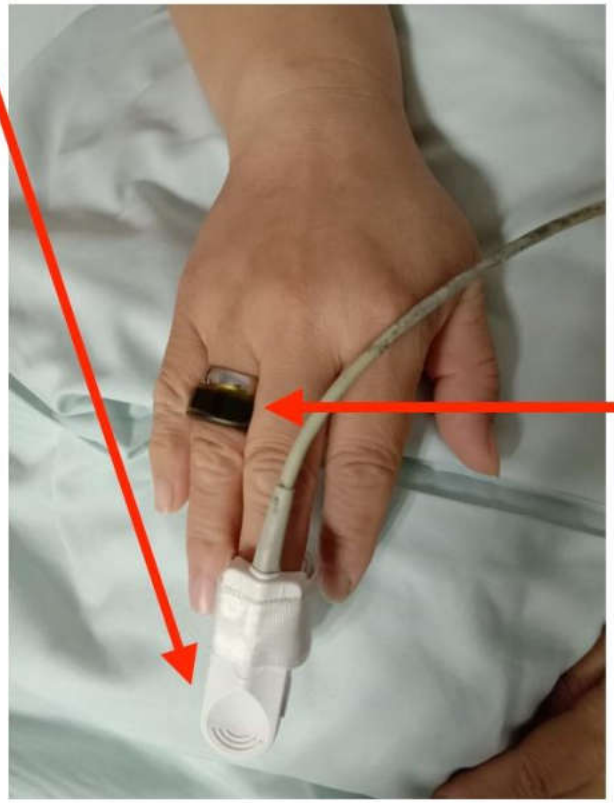
Contrast index: SpO2 trend chart、average SpO2、ODI、lowest SpO2

PSG oximeter





CIRCUL

Megahealth Ring is an innovative wearable continuous pulse oximeter, which has been certified to CFDA Class II for medical devices and hospitalized for clinical use. It measures PR and SPO2 precisely at the abdomen of the finger. The ring can be used for daily health monitoring and screening for diseases such as COPD and SAHS. The interface and inner arch are ergonomically shaped and the retractable sensor design is ingenious. It has not only the toughness and stability of stainless steel(inner shell), but also the wear resistance and moisture resistance of PVD(outer shell). The patented sensor structure embedded in the ring contains three types of wavelength sources: R, G and IR. The ring is produced with a fully potting process and has a waterproof grade of IP68.

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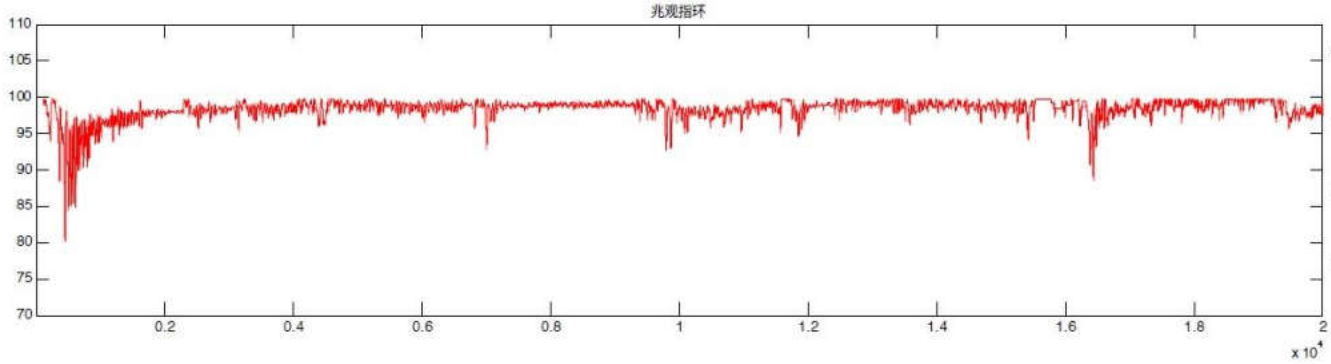

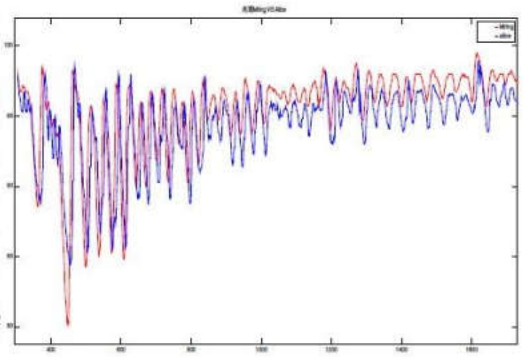

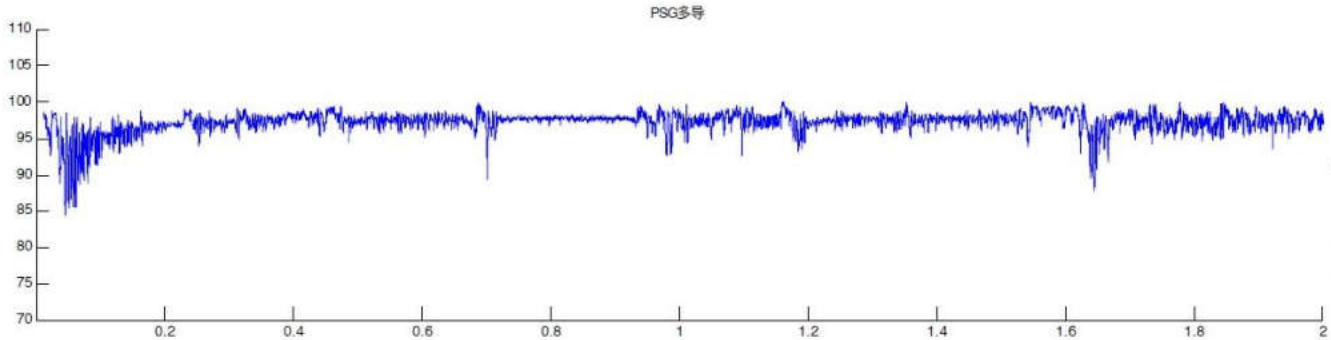

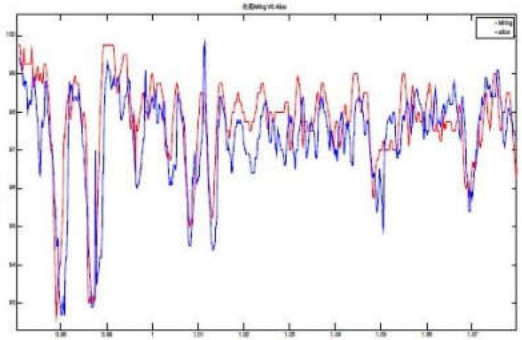

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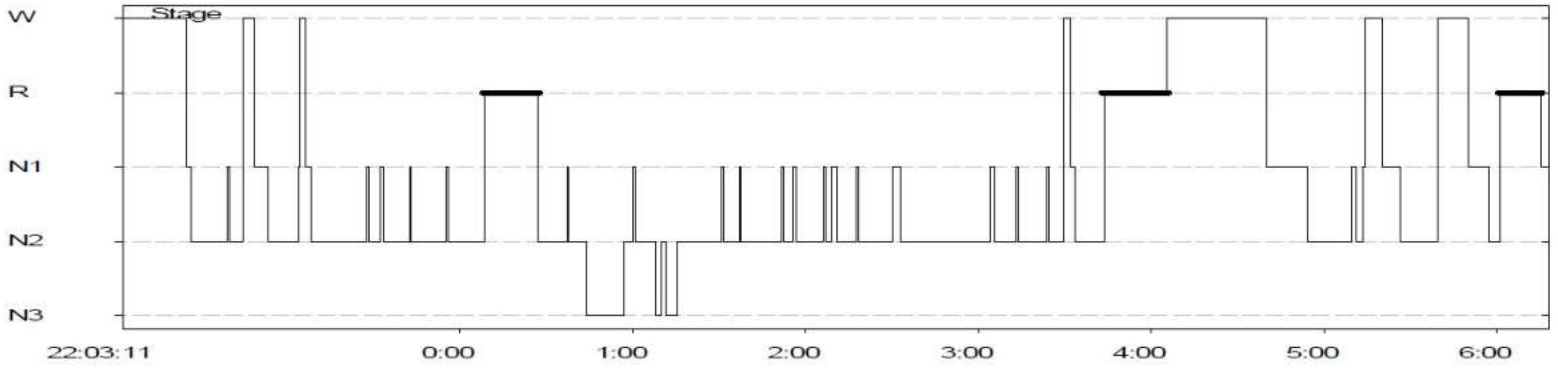
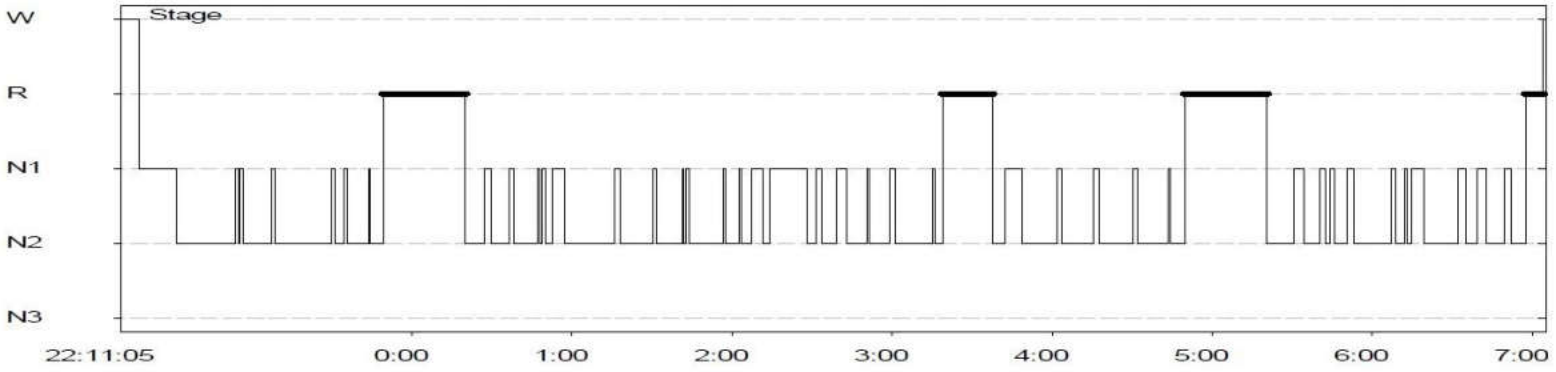
N	Date	Sex	Age	BMI	SpO2								Pulse Pate			
					Oxygen drop times		ODI(3)		Average SpO2 %		Lowest SpO2 %		Average PR		Maximum PR	
					Alice	Ring	Alice	Ring	Alice	Ring	Alice	Ring	Alice	Ring	Alice	Ring
1	2020-06-07	M	49	31 (90/170)	504	424	76.8	72.5	93	93.8	64	65.1	80.6	80	105	101
2	2020-07-22	M	36	32.8 (97/172)	587	504	77.4	70.9	89	87.3	41	42.3	63.8	63	113	101
3	2020-07-23	M	54	27.3 (70/160)	641	413	100.7	79.6	91	92.2	56	56.6	69.2	66	109	99
4	2020-08-02	M	46	28.7 (71.6/158)	302	191	48.3	33.4	96	97.4	85	81.2	75.7	73	109	100
5	2020-08-14	M	58	28.4 (87/175)	494	393	68.1	60.5	92	91.7	72	74.3	59.6	57	125	113
6	2020-08-17	M	28	25.6 (75/171)	515	352	80.4	59.4	91	91.1	70	68	79.3	75	110	106
7	2020-08-19	M	40	22.9 (75/181)	58	59	21	17.1	96	94.7	83	79.5	59.2	57	96	94
8	2020-08-21	M	40	28.3 (79/167)	533	394	84	67.5	92	92.2	75	74.4	48.6	50	109	92
9	2020-08-22	M	25	20.5 (61.5/173)	7	0	1	0	97	98.6	94	96.3	52.4	51	90	97
10	2020-08-26	M	41	25.4 (71.8/168)	168	118	27.1	17.4	97	96.7	84	80.9	55.4	54	120	106
11	2020-08-28	M	37	22.3 (63/168)	522	427	71	54.7	91	92.3	66	67.1	73.3	71	115	110
12	2020-09-01	M	34	26.6 (77/170)	943	765	110.8	93	91	87.7	63	59.5	68.6	65	131	86
13	2020-09-02	M	34	26.6 (77/170)	125	117	17.8	18.1	96	95.9	89	85.1	/	61	/	77
14	2020-09-04	M	33	40.8 (125/175)	538	427	78.1	60.4	94	90.3	53	46.4	58.9	56	107	95
15	2020-09-07	M	31	29.1 (79.3/165)	123	86	14.3	10.5	98	97.7	86	86.8	/	58	/	83

Sleep stages comparison 1
Black: Alice5; Blue: CIRCUL



Sleep stages comparison 2
Black: Alice5; Blue: CIRCUL



Sleep stages comparison 3
Black: Alice5; Blue: CIRCUL