**Table 1. Participants’ background of demographic, pregnancy and COVID-19 epidemic**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Area** | | **Total**  (n=1947) | **χ2** | **P-value** |
| **Wuhan**  (n=932) | **Chongqing**  (n=1015) |
| **Maternal age, years** |  |  | / | 3.5481 | 0.0596 |
| <35 | 843(90.45) | 891(87.78) | 1734(89.06) |  |  |
| ≧35 | 89(9.55) | 124(12.22) | 213(10.94) |  |  |
| **Highest educational background** |  |  | / | 1.3353 | 0.5129 |
| Junior middle school and below | 31(3.33) | 26(2.56) | 57(2.93) |  |  |
| Senior middle school | 106(11.37) | 125(12.32) | 231(11.86) |  |  |
| University and above | 795(85.30) | 864(85.12) | 1659(85.21) |  |  |
| **Employment status** |  |  | / | 29.0612 | <0.0001 |
| No | 302(32.40) | 219(21.58) | 521(26.76) |  |  |
| Yes | 630(67.60) | 796(78.42) | 1426(73.24) |  |  |
| **Monthly household income, CNY** |  |  | / | 7.9822 | 0.0464 |
| < 5,000 | 100(10.73) | 108(10.64) | 208(10.68) |  |  |
| 5,000-9,999 | 389(41.74) | 440(43.35) | 829(42.58) |  |  |
| 10,000-49,999 | 407(43.67) | 449(44.24) | 856(43.97) |  |  |
| 50,000 or more | 36(3.86) | 18(1.77) | 54(2.77) |  |  |
| **Gestational age, trimester** |  |  | / | 241.8110 | <0.0001 |
| First | 42(4.51) | 41(4.04) | 83(4.26) |  |  |
| Second | 146(15.67) | 493(48.57) | 639(32.82) |  |  |
| Third | 744(79.83) | 481(47.39) | 1225(62.92) |  |  |
| **Ways of conception** |  |  | / | 1.5030 | 0.2202 |
| Spontaneous pregnancy | 857(91.95) | 948(93.40) | 1805(92.71) |  |  |
| Assisted reproductive technology | 75(8.05) | 67(6.60) | 142(7.29) |  |  |
| **Parity** |  |  | / | 0.5229 | 0.4696 |
| Nullipara | 674(72.32) | 719(70.84) | 1393(71.55) |  |  |
| Multipara | 258(27.68) | 296(29.16) | 554(28.45) |  |  |
| **Foetal number** |  |  | / | 12.9739 | 0.0003 |
| One (singleton) | 917(98.39) | 970(95.57) | 1887(96.92) |  |  |
| Two or more (multiple) | 15(1.61) | 45(4.43) | 60(3.08) |  |  |
| **Comorbidity and Complication** A |  |  | / | 0.8242 | 0.3639 |
| No | 843(90.45) | 930(91.63) | 1773(91.06) |  |  |
| Yes | 89(9.55) | 85(8.37) | 174(8.94) |  |  |
| **Information sources of COVID-19** |  |  | / | 3.7567 | 0.1528 |
| Official media | 771(82.73) | 870(85.71) | 1641(84.28) |  |  |
| Unofficial media | 150(16.09) | 132(13.00) | 282(14.48) |  |  |
| Other | 11(1.18) | 13(1.28) | 24(1.24) |  |  |
| **Exposure history to COVID-19** |  |  | / | 45.9812 | <0.0001 |
| No | 888(95.28) | 1014(99.90) | 1902(97.69) |  |  |
| Yes | 44(4.72) | 1(0.10) | 45(2.31) |  |  |
| **Infected symptoms of COVID-19** |  |  | / | 1.7974 | 0.1800 |
| No | 920(98.71) | 1008(99.31) | 1928(99.02) |  |  |
| Yes | 12(1.29) | 7(0.69) | 19(0.98) |  |  |

Data are n (%). Chi-squared test was used. CNY, Chinese yuan.

A, Comorbidity and Complication (see **Table 1S**).

**Table 2. Participants’ anxiety status**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Area** | | **Total**  (n=1947) | **t / χ2** | **P-value** |
| **Wuhan**  (n=932) | **Chongqing**  (n=1015) |
| **Standard score** A | 43.97(8.71) | 40.37(7.15) | 42.09(8.13) § | 9.9150 | <0.0001 |
| **Degree of anxiety** B |  |  |  | 69.9681 | <0.0001 |
| No | 704(75.54) | 909(89.56) | 1613(82.85) |  |  |
| Mild | 175(18.78) | 95(9.36) | 270(13.87) |  |  |
| Moderate or severe | 53(5.69) | 11(1.08) | 64(3.29) |  |  |

Data are mean (SD) or n (%).

A, Student's t test was used. B, Kruskal-Wallis test was used.

§ The Cohen’s d for the SAS standard score was indicative of small-to-medium effect: 0.44.

**Table 3. Participants’ obstetrical choice**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Area** | | **Total** | **χ2** | **P-value** |
| **Wuhan** | **Chongqing** |
| **Request of online consultation** A | (n=932) | (n=1015) | (n=1947) | 8.6528 | 0.0033 |
| Yes | 703(75.43) | 705(69.46) | 1408(72.32) |  |  |
| No | 229(24.57) | 310(30.54) | 539(27.68) |  |  |
| **Hospital preference** B | (n=932) | (n=1015) | (n=1947) | / | / |
| Refuse to go to any hospital | 390(41.85) | 281(27.68) | 671(34.46) | 43.1368 | <0.0001 |
| Previous hospital of prenatal care | 319(34.23) | 713(70.25) | 1032(53.00) | 253.0501 | <0.0001 |
| Hospital closer to home | 147(15.77) | 122(12.02) | 269(13.82) | 5.7467 | 0.0165 |
| Large comprehensive hospital | 36(3.86) | 107(10.54) | 143(7.34) | 31.8512 | <0.0001 |
| Specialized hospital of Obstetrics | 420(45.06) | 145(14.29) | 565(29.02) | 223.4554 | <0.0001 |
| **Prenatal care** B  **(plan, reason/way)** | (n=499) | (n=796) | (n=1295) | / | / |
| Postponed, inconvenience | 461(92.38) | 580(72.86) | 1041(80.39) | 74.1274 | <0.0001 |
| Postponed, afraid of infected | 194(38.88) | 209(26.26) | 403(31.12) | 22.7947 | <0.0001 |
| As planned, online | 4(0.80) | 22(2.76) | 26(2.01) | 6.0026 | 0.0140 |
| As planned, face-to-face | 13(2.61) | 172(21.61) | 185(14.29) | 90.4530 | <0.0001 |
| **Hospitalized delivery** B  **(plan, reason/way)** | (n=203) | (n=87) | (n=290) | / | / |
| Postponed, inconvenience | 96(47.29) | 27(31.03) | 123(42.41) | 6.5891 | 0.0103 |
| Postponed, afraid of infected (self) | 102(50.25) | 37(42.53) | 139(47.93) | 1.4534 | 0.2280 |
| Postponed, afraid of infected (baby) | 104(51.23) | 37(42.53) | 141(48.62) | 1.8464 | 0.1742 |
| Ahead of time, waiting for labour | 35(17.24) | 9(10.34) | 44(15.17) | 2.2506 | 0.1336 |
| Ahead of time, caesarean in advance | 31(15.27) | 6(6.90) | 37(12.76) | 3.8370 | 0.0501 |
| As planned | 39(19.21) | 34(39.08) | 73(25.17) | 12.7634 | 0.0004 |
| **Delivery mode** A | (n=932) | (n=1015) | (n=1947) | 43.0645 | <0.0001 |
| Always CS | 174(18.67) | 266(26.21) | 440(22.60) |  |  |
| Always VD | 588(63.09) | 657(64.73) | 1245(63.94) |  |  |
| Change from CS to VD | 52(5.58) | 31(3.05) | 83(4.26) |  |  |
| Change from VD to CS | 118(12.66) | 61(6.01) | 179(9.19) |  |  |
| **Child-feeding** A | (n=932) | (n=1015) | (n=1947) | 38.4869 | <0.0001 |
| Always breast feeding | 777(83.37) | 919(90.54) | 1696(87.11) |  |  |
| Always bottle feeding | 23(2.47) | 35(3.45) | 58(2.98) |  |  |
| Change from breast to bottle | 92(9.87) | 48(4.73) | 140(7.19) |  |  |
| Change from bottle to breast | 40(4.29) | 13(1.28) | 53(2.72) |  |  |
| **Postnatal resting place** A | (n=932) | (n=1015) | (n=1947) | 71.1758 | <0.0001 |
| Always home | 687(73.71) | 847(83.45) | 1534(78.79) |  |  |
| Always PSI | 59(6.33) | 94(9.26) | 153(7.86) |  |  |
| Change from home to PSI | 24(2.58) | 5(0.49) | 29(1.49) |  |  |
| Change from PSI to home | 162(17.38) | 69(6.80) | 231(11.86) |  |  |
| **Impact of changing schedule** C | (n=932) | (n=1015) | (n=1947) | 191.4008 | <0.0001 |
| Completely no impact | 11(1.18) | 12(1.18) | 23(1.18) |  |  |
| Almost no impact | 25(2.68) | 81(7.98) | 106(5.44) |  |  |
| Slight impact | 149(15.99) | 335(33.00) | 484(24.86) |  |  |
| Comparative impact | 378(40.56) | 446(43.94) | 824(42.32) |  |  |
| Significant impact | 369(39.59) | 141(13.89) | 510(26.19) |  |  |
| **Impact of reducing activities** C | (n=932) | (n=1015) | (n=1947) | 113.0946 | <0.0001 |
| Completely no impact | 19(2.04) | 24(2.36) | 43(2.21) |  |  |
| Almost no impact | 50(5.36) | 110(10.84) | 160(8.22) |  |  |
| Slight impact | 194(20.82) | 332(32.71) | 526(27.02) |  |  |
| Comparative impact | 371(39.81) | 425(41.87) | 796(40.88) |  |  |
| Significant impact | 298(31.97) | 124(12.22) | 422(21.67) |  |  |
| **Impact of chest CT scan** C | (n=932) | (n=1015) | (n=1947) | 5.5295 | 0.0187 |
| Completely no impact | 9(0.97) | 1(0.10) | 10(0.51) |  |  |
| Almost no impact | 20(2.15) | 14(1.38) | 34(1.75) |  |  |
| Slight impact | 126(13.52) | 99(9.75) | 225(11.56) |  |  |
| Comparative impact | 326(34.98) | 377(37.14) | 703(36.11) |  |  |
| Significant impact | 451(48.39) | 524(51.63) | 975(50.08) |  |  |

Data are n (%).

A, Chi-squared test was used.

B, multiple choice, Chi-squared test was used for each choice.

C, Kruskal-Wallis test was used.

CS, caesarean section delivery. VD, vaginal delivery. PSI, postnatal resting institution.

**Table 4. Multivariable analysis of factors associated with anxiety**

|  |  |  |  |
| --- | --- | --- | --- |
| **Factor type** | **Influence factor** | **p-value** | **OR (95% CI)** |
| Background | **Monthly household income, CNY** |  |  |
|  | < 5,000 | 0.0238 | 1 (reference) |
|  | 5,000-9,999 | 0.0336 | 0.6570 (0.4459-0.9680) |
|  | 10,000-49,999 | 0.0027 | 0.5477 (0.3698-0.8113) |
|  | 50,000 or more | 0.5673 | 0.8038 (0.3804-1.6985) |
| Background | **Area** (Chongqing as reference) | <0.0001 | 1.8263 (1.3814-2.4145) |
| Background | **Infected symptoms** (No symptom as reference) | 0.0015 | 4.9194 (1.8370-13.1737) |
| Attitude § | **I know the SARS-CoV-2 and relevant prevention knowledge well** | 0.0001 | 0.7114 (0.5988-0.8453) |
| Attitude § | **I think this epidemic is far away from me** | 0.0312 | 1.1268 (1.0108-1.2560) |
| Attitude § | **I feel nervous about the control of this epidemic** | 0.0222 | 1.2277 (1.0297-1.4637) |
| Attitude § | **I feel nervous when I go out** | 0.0061 | 1.3359 (1.0860-1.6434) |
| Attitude § | **I think the online medical consultation is beneficial to my pregnancy now** | <0.0001 | 0.6451 (0.5704-0.7296) |
| Attitude § | **I think the psychological consultation and counselling is necessary and beneficial now** | 0.0002 | 1.3145 (1.1396-1.5163) |

OR, odds ratio; CI, confidence interval. CNY, Chinese yuan.

§, The attitudes ranged from "totally disagree" to "strongly agree".