**Supplementary material Table**

**Supplementary material Table 1** 24hUIE, 24hUIC, 24hUIEest, spot UIC and UI/Cr for the whole pregnancy and for the different trimesters

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Group | n | 24hUIE(µg) | 24hUIC（µg/L） | 24hUIEest(µg) | spot urine |
| UIC（µg/L） | UI/Cr（µg/g） |
| Pregnancy in total | 788 | 205.99(151.38,272.28) | 117.51(86.21,165.51) | 192.52(129.58,285.27) |  |  |
| Fasting | 408 | 216.75(156.04,287.12) | 123.33(87.54,173.72) | 202.27(136.97,294.64) | 151.89‡,§,||(105.74,209.89) | 122.86(82.50,189.83) |
| 8:00-9:00 | 317 | 210.56(153.18,270.56) | 119.61(87.32,172.15) | 179.67(129.00,274.38) | 136.67(92.83,186.93) | 128.20(90.03,186.63) |
| 11:00-12:00 | 320 | 201.37(147.14,265.85) | 113.29(86.26,164.27) | 193.57(131.32,297.03) | 125.81(84.98,185.65) | 129.37(86.04,201.77) |
| 16:00-17:00 | 313 | 199.92(142.60,264.50) | 113.15(82.82,164.24) | 209.65(139.90,307.75) | 130.17(76.40,200.01) | 139.69(100.60,219.53) |
| First trimester | 208 | 188.42†(131.45,250.32) | 114.72(86.98,165.79) | 171.89\*,†(113.31,250.89) | 　 | 　 |
| Fasting | 106 | 192.58(130.38,258.97) | 120.34(86.54,166.28) | 145.66(98.03,189.87) | 146.83(96.92,189.77) | 89.30(63.30,141.27) |
| 8:00-9:00 | 66 | 198.65(129.66,259.04) | 115.18(88.02,153.43) | 128.23(98.42,190.25) | 130.45(80.95,184.66) | 100.79(70.11,140.67) |
| 11:00-12:00 | 89 | 185.67(147.85,249.76) | 113.43(92.24,170.69) | 198.41(115.55,264.31) | 127.94(74.43,211.34) | 131.88(85.90,196.39) |
| 16:00-17:00 | 84 | 184.27(137.62,250.64) | 114.52(90.03,177.26) | 221.11(134.07,325.55) | 140.95(84.36,206.88) | 163.88(96.96,237.46) |
| Second trimester | 410 | 204.85†(148.82,269.49) | 114.55(84.22,161.85) | 198.60(137.28,291.39) |  |  |
| Fasting | 208 | 210.95(149.03,282.07) | 118.45(84.96,174.78) | 214.25(145.90,290.36) | 152.63(106.48,218.56) | 133.12(95.13,191.26) |
| 8:00-9:00 | 183 | 204.49(146.98,267.41) | 115.39(82.65,174.21) | 186.38(135.36,275.78) | 137.81(95.65,188.13) | 134.82(96.76,187.88) |
| 11:00-12:00 | 160 | 205.69(147.80,265.99) | 120.25(89.24,163.52) | 188.58(128.16,309.63) | 128.67(86.29,184.28) | 136.02(91.73,216.57) |
| 16:00-17:00 | 167 | 198.65(147.09,255.60) | 112.85(83.12,155.24) | 204.60(140.36,304.43) | 124.03(74.18,187.91) | 139.06(104.89,220.83) |
| Third trimester | 170 | 232.99(171.33,296.90) | 124.75(89.14,184.21) | 204.16(131.70,317.15) |  |  |
| Fasting | 94 | 255.92(180.55,338.34) | 143.96(105.74,193.64) | 253.10(149.32,384.98) | 153.81(113.97,210.98) | 134.56(104.75,209.02) |
| 8:00-9:00 | 68 | 232.99(178.75,310.16) | 142.74(103.48,192.09) | 220.00(136.13,317.97) | 135.70(94.07,187.20) | 138.11(94.77,233.82) |
| 11:00-12:00 | 71 | 207.98(142.81,282.35) | 101.28(72.74,156.86) | 172.03(111.18,239.25) | 110.98(84.65,153.82) | 110.82(73.54,162.01) |
| 16:00-17:00 | 62 | 207.04(135.92,283.83) | 110.32(76.22,163.42) | 195.97(137.52,288.46) | 136.01(64.18,226.55) | 127.67(94.69,193.79) |

*24hUIC* 24-hour urinary iodine concentration, *24hUIE* 24-hour urinary iodine excretion, *24hUIEest* estimated 24-hour urinary iodine excretion, *24hUI/Cr* 24-hour urinary iodine-to-creatinine ratio, *UIC* urinary iodine concentration, *UI/Cr* urinary iodine-to-creatinine ratio. *First trimester*: 0-13 weeks, *second trimester*: 14-27 weeks, *third trimester*: 28-40 weeks. \* compared with the second trimester, *p*＜0.01. †, compared with the third trimester, *p*＜0.01. ‡，compared with UIC at 8:00-9:00, *p*＜0.01. §, compared with UIC at 11:00-12:00, *p*＜0.01. ||, compared with UIC at 16:00-17:00, *p*＜0.01. The value were describe by median with interquartile range[M(IQR)].