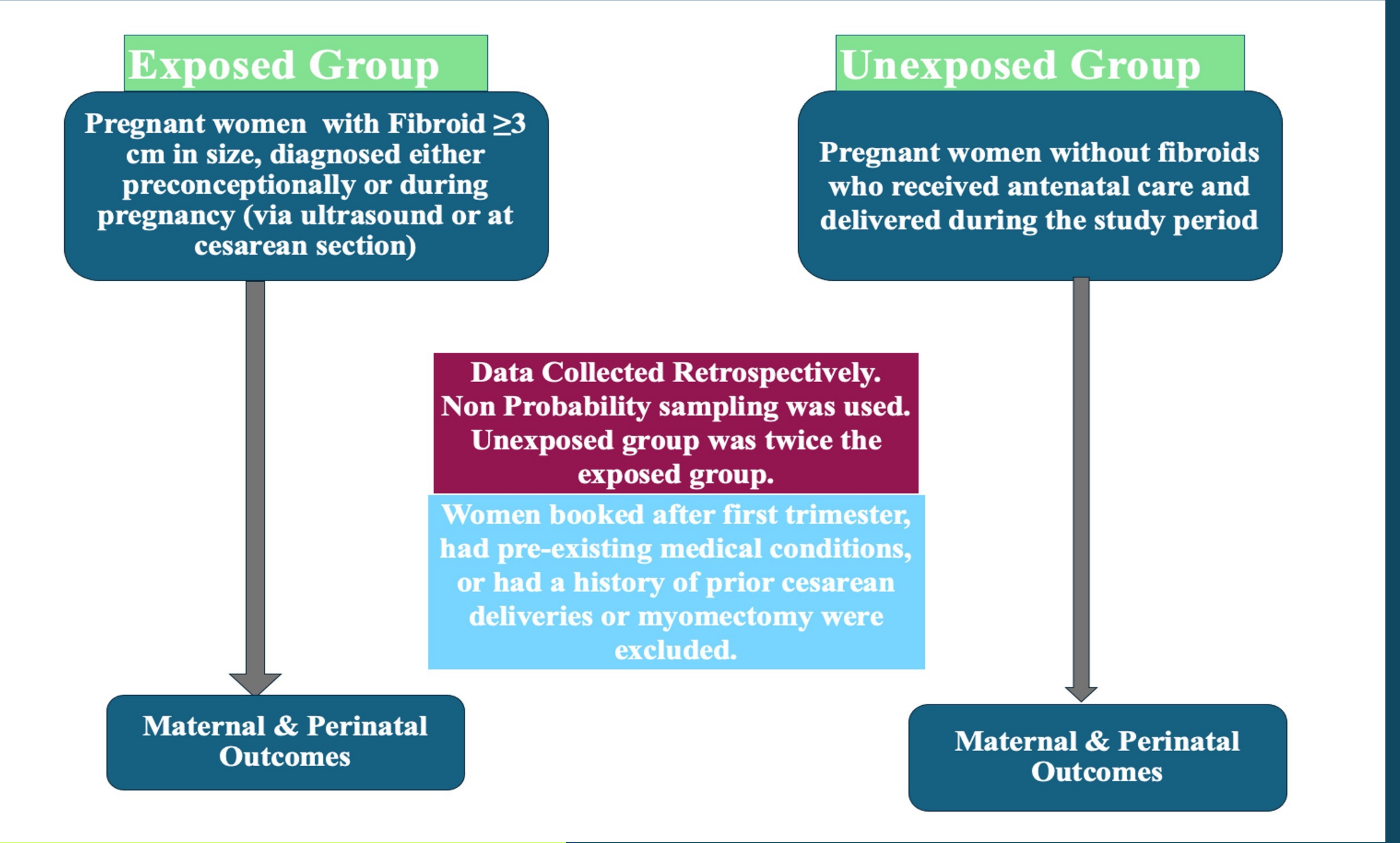


**Objective:**

This study assessed whther presence of fibroids during pregnancy is associated with an increased risk of maternal & perinatal complications

**Methodology:**

This retrospective cohort study was conducted at Aga Khan University Hospital (AKUH), from Jan1,2016, to Dec 31,2019.

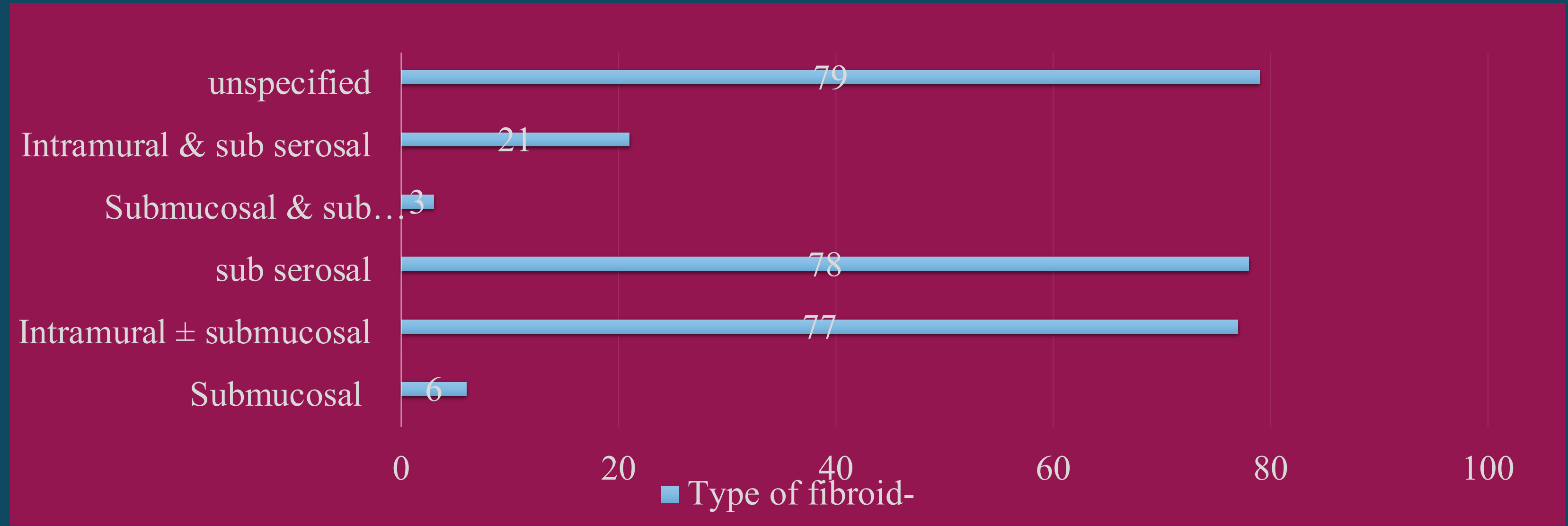


**Conclusion:**

The presence of fibroids during pregnancy is associated with an increased risk of adverse maternal and perinatal outcomes.Given the high-risk nature of such pregnancies,appropriate counseling and individualized care planning are essential to optimize maternal & neonatal health.

| Variables                     | Total Mean(SD)/N(%) | No Fibroid n(%)<br>N=534(66.67) | Fibroid n(%)<br>Present N=267(33.33) |
|-------------------------------|---------------------|---------------------------------|--------------------------------------|
| Age                           | 28.8(5.09)          | 27.25(4.52)                     | 32.19(4.55)                          |
| *BMI at booking               | 26.6(10.93)         | 26.04(11.93)                    | 27.79(8.34)                          |
| *Gestational age at booking   | 14.93(8.11)         | 14.36(7.84)                     | 16.17(8.56)                          |
| *Gestational at Last AN visit | 37(3.96)            | 37.68(3.6)                      | 35.64(4.31)                          |
| Primipara                     | 365                 | 214(59.12)                      | 151(79.47)                           |
| Multipara                     | 187                 | 148(40.88)                      | 39(20.53)                            |

| Perinatal Outcomes        |                  |               |         |
|---------------------------|------------------|---------------|---------|
| Variables                 | No fibroids N(%) | Fibroids N(%) | P value |
| Transfer of baby          |                  |               |         |
| Well baby                 | 495(93.93)       | 223(86.10)    |         |
| NICU                      | 29(5.50)         | 32(12.36)     | 0.001   |
| Shift out                 | 3(0.57)          | 4(1.54)       |         |
| Outcome                   |                  |               |         |
| Alive and healthy         | 514(97.90)       | 249(95.04)    |         |
| Stillbirth                | 1(0.19)          | 8(3.05)       | 0.002   |
| Neonatal death            | 10(1.90)         | 5(1.91)       |         |
| APGAR Score at 5min - < 7 | 7(1.31)          | 6(2.25)       | 0.323   |
| Baby Weight               |                  |               |         |
| <2500 gm                  | 72(13.48)        | 72(26.97)     |         |
| 2500-4000gm               | 444(83.15)       | 185(69.29)    | <0.001  |
| >4000gm                   | 18(3.37)         | 10(3.75)      |         |



| Obstetric Outcomes       |                   |               |         |
|--------------------------|-------------------|---------------|---------|
| Ccomplications           | No fibroids N (%) | Fibroids N(%) | P value |
| Preterm labour           | 49(9.18)          | 34(12.73)     | 0.11    |
| Hypertension             | 17(3.18)          | 39(14.61)     | <0.001  |
| Gestational DM           | 53(9.93)          | 62(23.22)     | <0.001  |
| SGA/IUGR                 | 54(10.11)         | 44(16.48)     | 0.01    |
| Placenta previa          | 4(0.75)           | 13(4.87)      | <0.001  |
| Placenta abruption       | 2(0.37)           | 4(1.50)       | 0.082   |
| (PROM)                   | 2(0.37)           | 11(4.12)      | <0.001  |
| Early pregnancy Bleeding | 2(0.37)           | 8(3)          | 0.002   |
| Miscarriage              | 3(0.56)           | 5(1.87)       | 0.079   |
| Anemia                   | 6(1.12)           | 68(25.47)     | <0.001  |
| Others                   | 37(6.93)          | 44(16.48)     | <0.001  |
| Vaginal Delivery         | 261(49.53)        | 59(22.52)     |         |
| Instrumental             | 22(4.17)          | 2(0.76)       | <0.001  |
| LSCS                     | 244(46.30)        | 201(76.72)    |         |
| Blood Transfusion        | 16(3.04)          | 32(12.08)     | <0.001  |
| PPH                      |                   |               |         |
| Yes                      | 21(4)             | 29(10.94)     | <0.001  |
| No                       | 504(96)           | 236(89.06)    |         |
| Myomectomy Yes           | 0                 | 23(9.91)      | -       |
| No                       | 0                 | 209(90.09)    |         |