

**Supplement to: Dai Y, Wu Q, Zhu L, Yang W, Jin P, Jin S, Tian F, Li X. Ectopic pregnancy-related severe maternal morbidity in Shenzhen: a sentinel indicator for gaps in early pregnancy care systems. J Glob Health. 2026;16:04331.**

**Supplementary Data Sheet 1** Emergency Settings and Ectopic Pregnancy Types

**Supplementary Data Sheet 2** Variation in ectopic pregnancy type distribution across clinical settings

**Supplementary Data Sheet 3** Gestational age frequency of SMM-EP cases

**Supplementary Data Sheet 4** Distribution of Gestational Age Among Different Types of Ectopic Pregnancies

**Supplementary Data Sheet 5** Gestational age frequency of SMM-EP cases in different clinical settings

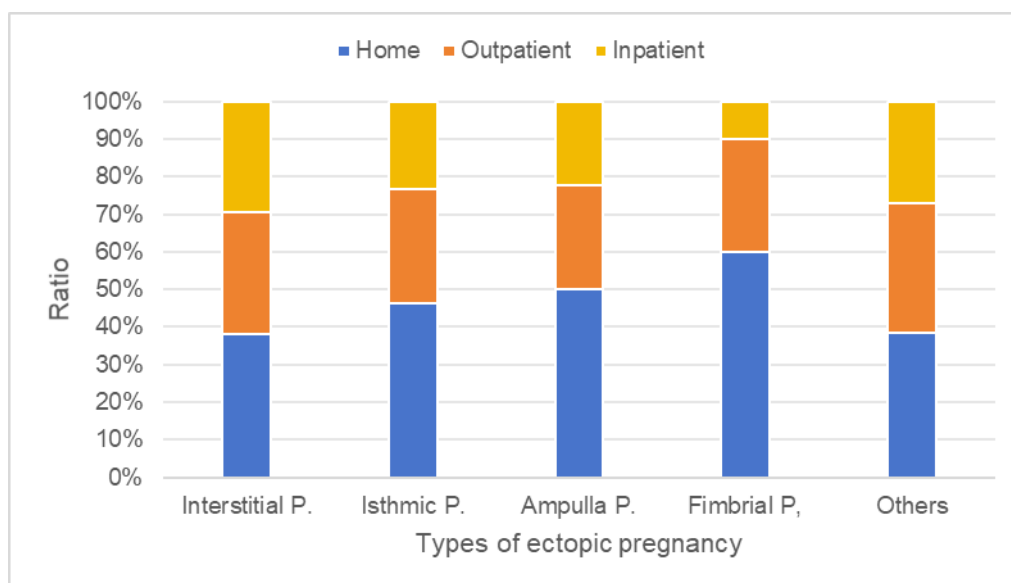
**Supplementary Data Sheet 6** Geospatial distribution of SMM-EP incidence in Shenzhen

**Supplementary Sheet 7** SMM indicators and corresponding ICD codes

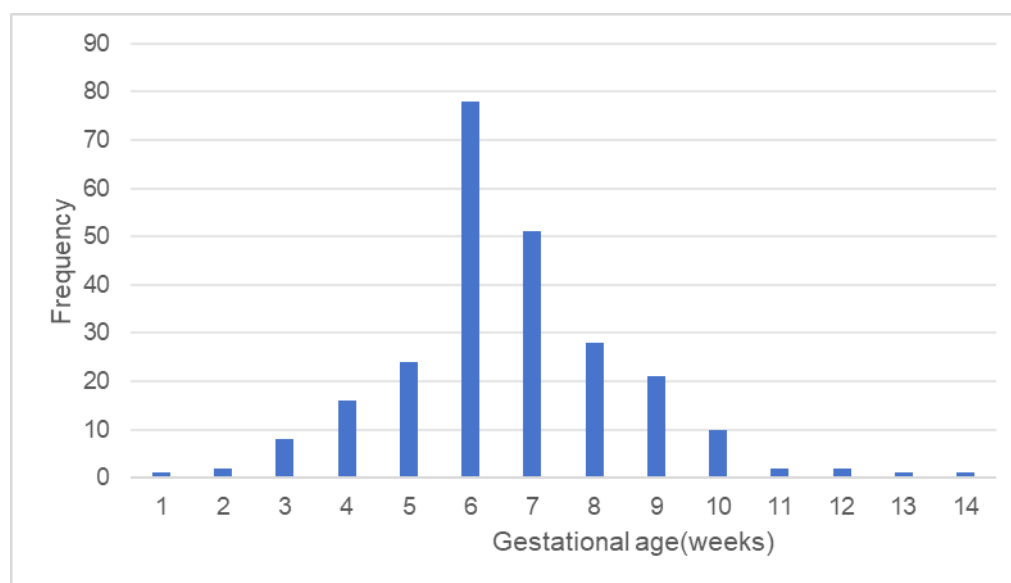
# Supplementary Data Sheet 1 Emergency Settings and Ectopic Pregnancy Types

|                         | Isthmic p.<br>(N=99) | Ampulla p.<br>(N=76) | Interstitial p.<br>(N=34) | Fimbrial p.<br>(N=10) | Others (N=26) | <i>F/X<sup>2</sup></i> | <i>P</i> |
|-------------------------|----------------------|----------------------|---------------------------|-----------------------|---------------|------------------------|----------|
| Age                     | 31.75±5.54           | 32.41±6.37           | 30.82±6.89                | 32.20±7.24            | 31.62±5.41    | 0.429 <sup>a</sup>     | 0.788    |
| Gestational age (weeks) | 6.88±1.90            | 6.45±1.90            | 6.26±1.97                 | 6.40±1.71             | 6.81±2.00     | 0.191 <sup>a</sup>     | 0.943    |
| Gestational age (weeks) |                      |                      |                           |                       |               | 3.941 <sup>b</sup>     | 0.868    |
| ≤6                      | 47 (47.47)           | 42 (55.26)           | 20 (58.82)                | 6 (60.00)             | 14 (53.85)    |                        |          |
| 7-9                     | 42 (42.42)           | 31 (40.79)           | 12 (35.29)                | 4 (60.00)             | 11 (42.31)    |                        |          |
| ≥10                     | 10 (10.10)           | 3 (3.95)             | 2 (5.88)                  | 0 (0.00)              | 1 (3.85)      |                        |          |
| Gravidity               |                      |                      |                           |                       |               | 4.833 <sup>b</sup>     | 0.784    |
| 1                       | 17 (17.17)           | 19 (25.00)           | 6 (17.65)                 | 2 (20.00)             | 7 (26.92)     |                        |          |
| 2~4                     | 66 (66.67)           | 42 (55.26)           | 20 (58.82)                | 6 (60.00)             | 13 (50.00)    |                        |          |
| ≥5                      | 16 (16.16)           | 15 (19.74)           | 8 (23.53)                 | 2 (20.00)             | 6 (23.08)     |                        |          |
| Parity                  |                      |                      |                           |                       |               | 3.928 <sup>b</sup>     | 0.858    |
| 0                       | 31 (31.31)           | 27 (35.53)           | 11 (32.35)                | 3 (30.00)             | 8 (30.77)     |                        |          |
| 1~3                     | 66 (66.67)           | 46 (60.53)           | 22 (64.71)                | 6 (60.00)             | 18 (69.23)    |                        |          |
| ≥4                      | 2 (2.02)             | 3 (3.95)             | 1 (2.94)                  | 1 (10.00)             | 0 (0.00)      |                        |          |
| Educational Level       |                      |                      |                           |                       |               | 13.097 <sup>b</sup>    | 0.654    |
| Junior High School/     | 28 (28.28)           | 21 (27.63)           | 13 (38.24)                | 6 (60.00)             | 10 (38.46)    |                        |          |
| Below                   |                      |                      |                           |                       |               |                        |          |
| High School             | 23 (23.23)           | 15 (19.74)           | 4 (11.76)                 | 2 (20.00)             | 4 (15.38)     |                        |          |

|                       |            |            |            |             |            |                     |       |
|-----------------------|------------|------------|------------|-------------|------------|---------------------|-------|
| College               | 25 (25.25) | 22 (28.95) | 12 (35.29) | 0 (0.00)    | 8 (30.77)  |                     |       |
| Bachelor              | 22 (22.22) | 16 (21.05) | 5 (14.71)  | 2 (20.00)   | 4 (15.38)  |                     |       |
| Master and Above      | 1 (1.01)   | 2 (2.63)   | 0 (0.00)   | 0 (0.00)    | 0 (0.00)   |                     |       |
| Occupation            |            |            |            |             |            | 17.882 <sup>b</sup> | 0.093 |
| Housewife/Unspecified | 34 (34.34) | 34 (44.74) | 20 (58.82) | 3 (30.00)   | 6 (23.08)  |                     |       |
| Worker/Farmer         | 28 (28.28) | 13 (17.11) | 4 (11.76)  | 3 (30.00)   | 6 (23.08)  |                     |       |
| Merchant              | 5 (5.05)   | 2 (2.63)   | 3 (8.82)   | 1 (10.00)   | 3 (11.54)  |                     |       |
| Staff/Cadre           | 32 (32.32) | 27 (35.53) | 7 (20.59)  | 3 (30.00)   | 11 (42.31) |                     |       |
| prenatal healthcare   |            |            |            |             |            | 17.098 <sup>b</sup> | 0.008 |
| 0                     | 95 (95.96) | 75 (98.68) | 33 (97.06) | 10 (100.00) | 20 (76.92) |                     |       |
| ≥1                    | 4 (4.04)   | 1 (1.32)   | 1 (2.94)   | 0 (0.00)    | 6 (23.08)  |                     |       |
| Different settings    |            |            |            |             |            | 3.323 <sup>b</sup>  | 0.928 |
| Home                  | 46 (46.46) | 38 (50.00) | 13 (38.24) | 6 (60.00)   | 10 (38.46) |                     |       |
| Outpatient/ Emergency | 30 (30.30) | 21 (27.63) | 11 (32.35) | 3 (30.00)   | 9 (34.62)  |                     |       |
| Inpatient             | 23 (23.23) | 17 (22.37) | 10 (29.41) | 1 (10.00)   | 7 (26.92)  |                     |       |



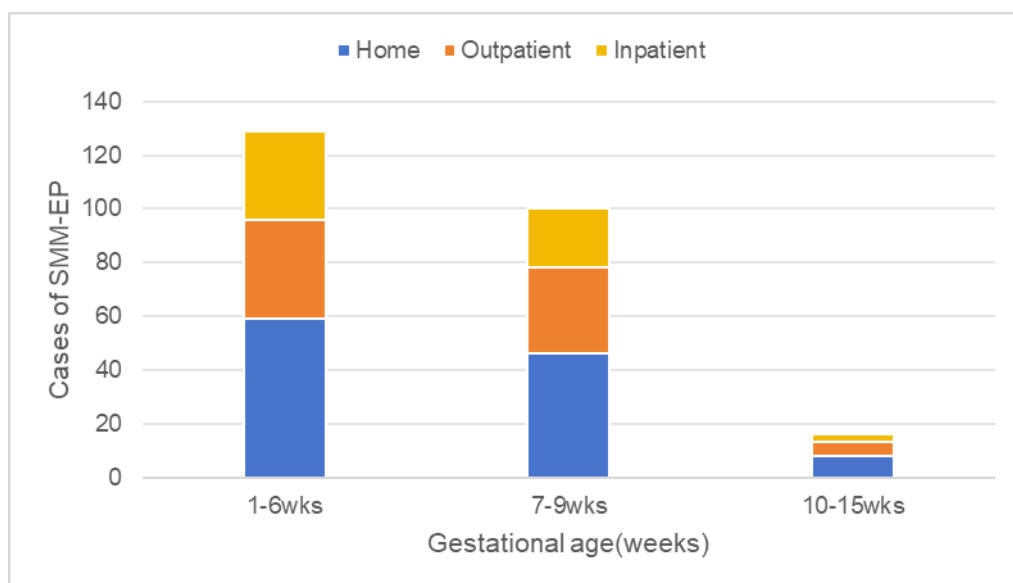
**Supplementary Data Sheet 2** Variation in ectopic pregnancy type distribution across clinical settings



**Supplementary Data Sheet 3** Gestational age frequency of SMM-EP cases

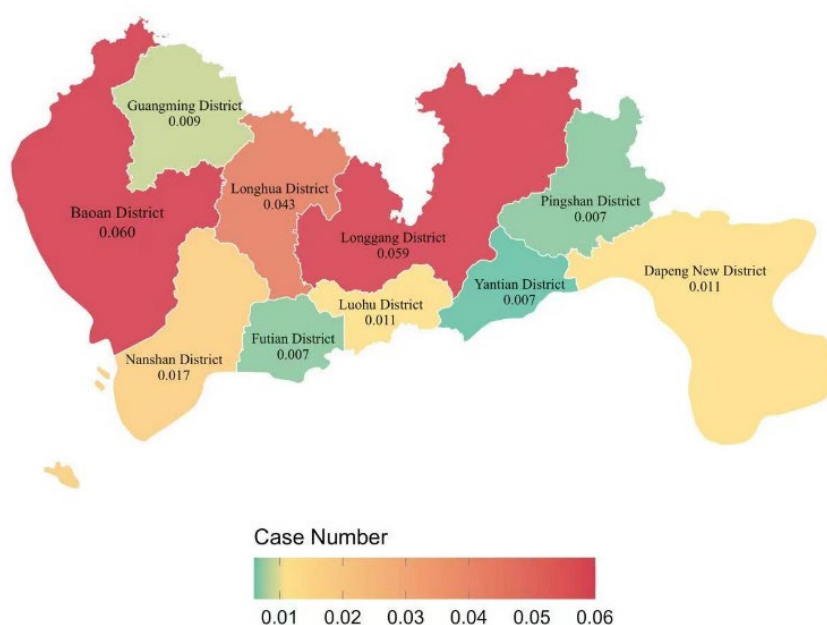
**Supplementary Data Sheet 4** Distribution of Gestational Age Among Different  
Types of Ectopic Pregnancies

| <b>Gestational<br/>age(weeks)</b> | <b>Interstitial<br/>P.</b> | <b>Isthmic P.<br/>P.</b> | <b>Ampulla<br/>P.</b> | <b>Fimbrial</b> | <b>others</b> |
|-----------------------------------|----------------------------|--------------------------|-----------------------|-----------------|---------------|
| 1                                 | 1                          | 0                        | 0                     | 0               | 0             |
| 2                                 | 0                          | 1                        | 1                     | 0               | 0             |
| 3                                 | 1                          | 3                        | 3                     | 1               | 0             |
| 4                                 | 4                          | 4                        | 7                     | 0               | 1             |
| 5                                 | 3                          | 8                        | 10                    | 1               | 2             |
| 6                                 | 11                         | 31                       | 21                    | 1               | 11            |
| 7                                 | 7                          | 21                       | 14                    | 1               | 8             |
| 8                                 | 3                          | 14                       | 8                     | 2               | 1             |
| 9                                 | 2                          | 7                        | 9                     | 1               | 2             |
| 10                                | 1                          | 7                        | 2                     | 0               | 0             |
| 11                                | 1                          | 1                        | 0                     | 0               | 0             |
| 12                                | 0                          | 1                        | 1                     | 0               | 0             |
| 13                                | 0                          | 1                        | 0                     | 0               | 0             |
| 14                                | 0                          | 0                        | 0                     | 0               | 0             |
| 15                                | 0                          | 0                        | 0                     | 0               | 1             |
| <b>Total</b>                      | <b>34</b>                  | <b>99</b>                | <b>76</b>             | <b>10</b>       | <b>26</b>     |



**Supplementary Data Sheet 5** Gestational age frequency of SMM-EP cases in different clinical settings

Data source: Shenzhen Health Commission (2023)



**Supplementary Data Sheet 6** Geospatial distribution of SMM-EP incidence in Shenzhen

**Supplementary Sheet 7** SMM indicators and corresponding ICD codes

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**Severe Maternal Morbidity Indicator ICD-10**

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|                |                                                                   |
|----------------|-------------------------------------------------------------------|
| Acute cyanosis | R23.0, I73.800x008                                                |
| Gasping        | R06.200                                                           |
| <b>Shock</b>   | O75.1, R57.x, T78.2XXA, T81.10XA,<br>T81.11XA, T81.19XA, T88.6XXA |

**Oliguria non responsive to fluids** R34.x00, R34.01

**Diuretics**

|                                        |                               |
|----------------------------------------|-------------------------------|
| Clotting failure                       | D68.9, D68.902, D68.900x007   |
| Loss of consciousness lasting 12 hours | R40.200, R40.200x002, R40.201 |

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|                                    |                                                   |
|------------------------------------|---------------------------------------------------|
| <b>Ectopic pregnancy Indicator</b> | ICD-10: O00, O00.0, O00.1, O00.2,<br>O00.8, O00.9 |
|------------------------------------|---------------------------------------------------|

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