Supplementary Material

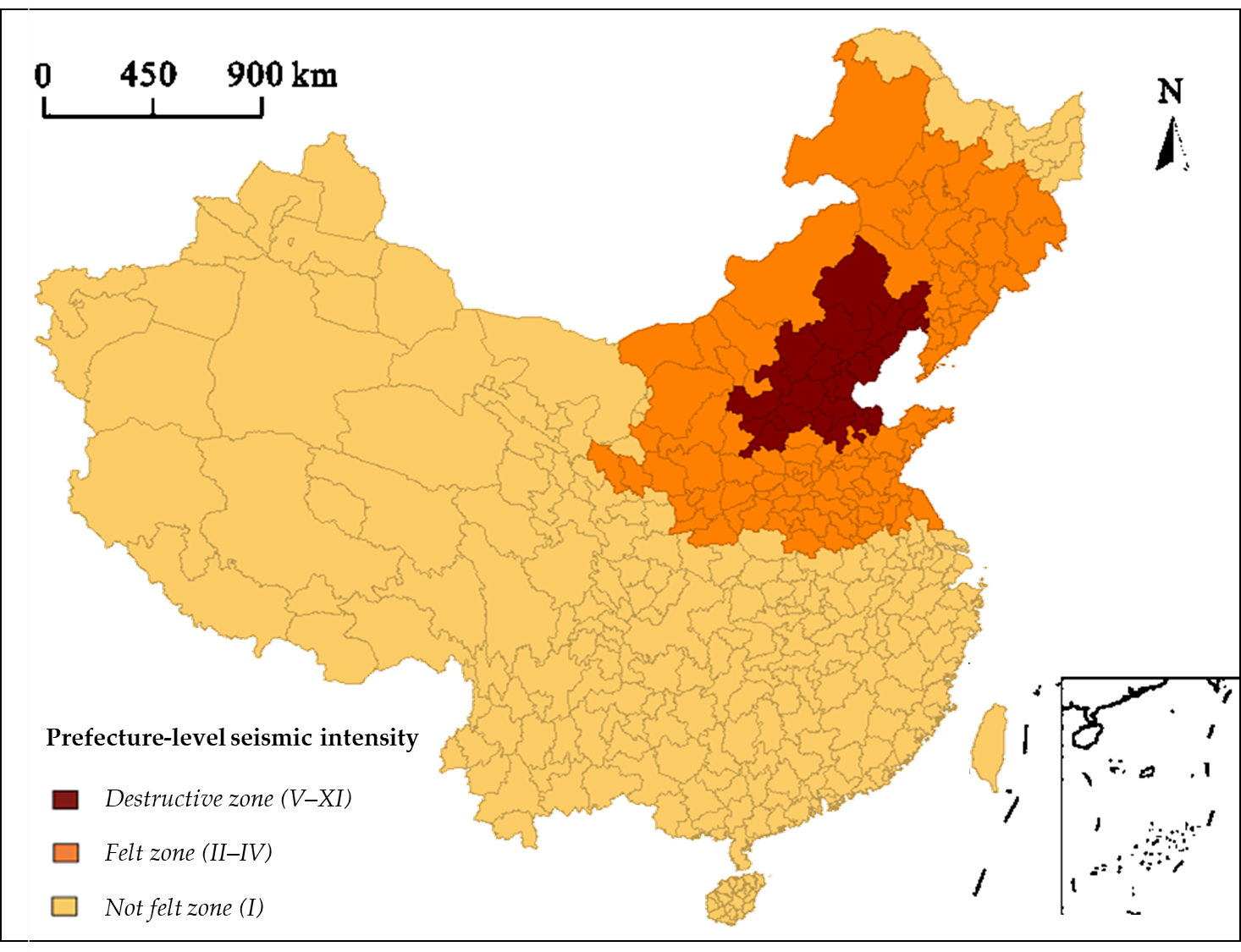
**This file includes appendixes:**

**Supplementary Fig 1. Prefecture-level spatial distribution of earthquake intensity**

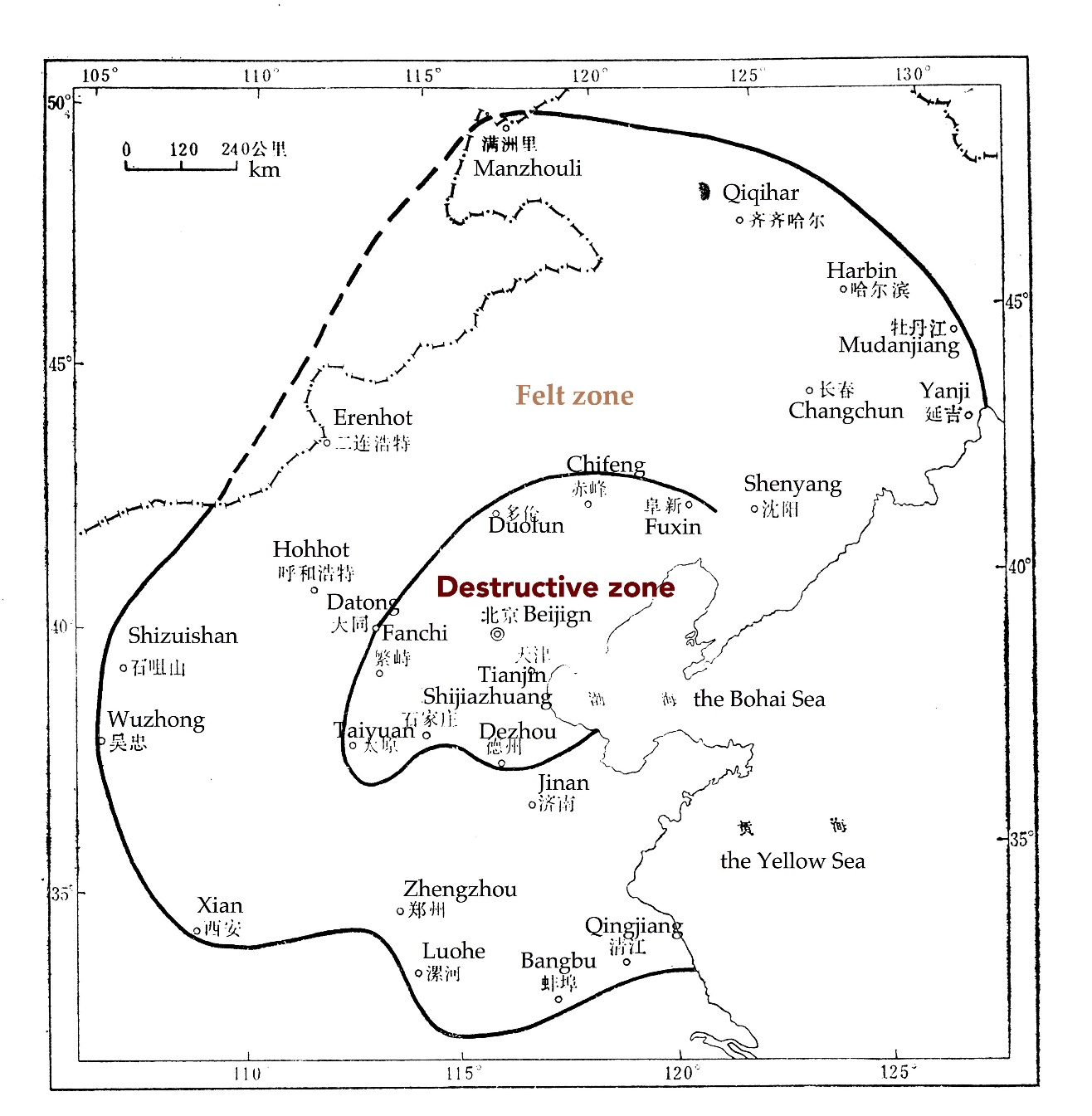
**Supplementary Fig 2. The destructive zone and felt zone of the Great Tangshan Earthquake on July 28, 1976.**

**Supplementary Table 1. Prenatal earthquake exposure and risk of schizophrenia in adulthood for robustness analyses.**

**Supplementary Table 2. Prenatal earthquake exposure and risk of schizophrenia in adulthood, by rural and urban areas.**



**Supplementary Fig 1.** Prefecture-level spatial distribution of earthquake intensity



**Supplementary Fig 2.** The destructive zone and felt zone of the Great Tangshan Earthquake on July 28, 1976.

**Supplementary Table 1.** Prenatal earthquake exposure and risk of schizophrenia in adulthood for robustness analyses.

|  |  |  |  |
| --- | --- | --- | --- |
| **Multivariable analysis results** | **AOR** | **95% CI** | ***P*-value** |
| **Full-term prenatal exposure** |  |  |  |
| Pre-earthquake cohort × Felt | 2.17 | 0.89–5.28 | 0.088 |
| Earthquake cohort × Felt | 2.64 | 1.25–5.58 | 0.011 |
| Post-earthquake cohort × Felt | 1.65 | 0.75–3.64 | 0.216 |
| Pre-earthquake cohort × Destructive | 1.50 | 0.42–5.43 | 0.533 |
| Earthquake cohort × Destructive | 0.96 | 0.28–3.25 | 0.946 |
| Post-earthquake cohort × Destructive | 1.16 | 0.46–2.91 | 0.752 |
|  |  |  |  |
| **Prenatal exposure by trimester of pregnancy** |  |  |  |
| First trimester × Felt | 5.84 | 2.71–12.57 | <0.001 |
| Second trimester × Felt | 2.18 | 0.76–6.23 | 0.145 |
| Third trimester × Felt | 1.71 | 0.57–5.10 | 0.336 |
| First trimester × Destructive | 0.85 | 0.15–4.78 | 0.850 |
| Second trimester × Destructive | 0.31 | 0.09–1.11 | 0.072 |
| Third trimester × Destructive | 1.75 | 0.31–10.02 | 0.529 |

Note: Cohort born during Jun. 1978 and Mar. 1979 was used as the reference cohort; the pre-earthquake cohort, earthquake cohort and post-earthquake cohort are the same as used in Table 2 and Table 3.

**Supplementary Table 2.** Prenatal earthquake exposure and risk of schizophrenia in adulthood, by rural and urban areas.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Birth cohort × intensity** | **Rural area** | | |  | **Urban area** | | |
| **AOR** | **95% CI** | ***P*-value** |  | **AOR** | **95% CI** | ***P*-value** |
| **Full-term prenatal exposure** |  |  |  |  |  |  |  |
| Pre-earthquake cohort × Felt | 3.45 | 1.16–10.29 | 0.026 |  | 1.14 | 0.23–5.62 | 0.871 |
| Earthquake cohort × Felt | 3.35 | 1.06–10.64 | 0.040 |  | 2.22 | 0.65–7.54 | 0.201 |
| Post-earthquake cohort × Felt | 2.51 | 0.94–6.72 | 0.067 |  | 1.03 | 0.21–5.08 | 0.974 |
| Pre-earthquake cohort × Destructive | 1.19 | 0.29–4.8 | 0.808 |  | 1.31 | 0.41–4.26 | 0.649 |
| Earthquake cohort × Destructive | 0.73 | 0.34–1.58 | 0.426 |  | 0.66 | 0.13–3.28 | 0.616 |
| Post-earthquake cohort × Destructive | 0.96 | 0.46–2.01 | 0.915 |  | 0.86 | 0.3–2.46 | 0.777 |
|  |  |  |  |  |  |  |  |
| **Prenatal exposure by trimester of pregnancy** |  |  |  |  |  |  |  |
| First trimester × Felt | 5.29 | 1.36–20.55 | 0.016 |  | 15.86 | 1.88–133.63 | 0.011 |
| Second trimester × Felt | 3.36 | 0.83–13.68 | 0.090 |  | 1.30 | 0.29–5.77 | 0.732 |
| Third trimester × Felt | 2.28 | 0.54–9.61 | 0.261 |  | 1.30 | 0.21–8.06 | 0.777 |
| First trimester × Destructive | 1.25 | 0.28–5.68 | 0.771 |  | ––a | ––a | ––a |
| Second trimester × Destructive | 0.64 | 0.09–4.57 | 0.654 |  | ––a | ––a | ––a |
| Third trimester × Destructive | 0.58 | 0.1–3.42 | 0.548 |  | 1.93 | 0.33–11.29 | 0.464 |

a. No samples in this category.