**Supplementary Table S3**: Characteristics of included studies

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| First Author | Year | Country | Ultrasound System | Probe  Frequency  (MHz) | Gestational age range  (Average gestational age) | Total Number Participants Screened |
| Lei Yixin[[1](#_ENREF_1)] | 2025 | China | GE Voluson E10 | 5.0-8.0 | 18-31(24.3) | 116 |
| Zhang Xiawei[[2](#_ENREF_2)] | 2025 | China | GE Voluson E10 | 3.5-5.0 | 20-24(22.0) | 150 |
| Sun Guichun[[3](#_ENREF_3)] | 2024 | China | GE Voluson E8 | 4.0-8.0 | 19-28(24.3) | 97 |
| Duo Liena[[4](#_ENREF_4)] | 2024 | China | GE Voluson E10 | 4.0-8.0 | 13-38(26.4) | 1500 |
| Lu Hongfen[[5](#_ENREF_5)] | 2024 | China | GE Voluson E8 | 3.5-5.0 | 24-28(26.2) | 80 |
| Wang Yanming[[6](#_ENREF_6)] | 2024 | China | GE Voluson E8 | 2.5-7.0 | 18-27(N/A) | 135 |
| Wang Jufang[[7](#_ENREF_7)] | 2024 | China | PHILIPS EPIQ7C | 3.5-5.0 | 11-25(17.3) | 2013 |
| Zhang Rong[[8](#_ENREF_8)] | 2024 | China | Mindray NuewaI9 | N/A | N/A(25.1) | 324 |
| Zhang Yan[[9](#_ENREF_9)] | 2024 | China | Samsung WS80A | 3.5 | 14-26(20.1) | 138 |
| Liao Zhiqiang[[10](#_ENREF_10)] | 2024 | China | N/A | N/A | N/A | 186 |
| Liu Zhao[[11](#_ENREF_11)] | 2023 | China | GE Voluson E8 | N/A | 18-39(27.4) | 413 |
| Chen Jiqian[[12](#_ENREF_12)] | 2023 | China | GE Voluson E8 | 4.0-8.0 | 18-28(23.2) | 245 |
| Liu Shenggui[[13](#_ENREF_13)] | 2023 | China | WELLD FDC6100 | 3.5-5.0 | 18-28(24.2) | 237 |
| Wang Lingyan[[14](#_ENREF_14)] | 2023 | China | N/A | N/A | 18-20(23.4) | 47 |
| Sun Li[[15](#_ENREF_15)] | 2022 | China | GE Voluson E10 | 2.0-6.0 | 18-32(26.2) | 260 |
| Liu Xuelin[[16](#_ENREF_16)] | 2022 | China | GE Voluson E10 | 1.0-5.0 | 12-15(13.9) | 215 |
| Xie Jinmei[[17](#_ENREF_17)] | 2022 | China | GE LOGIQ E9 | 2.5-5.0 | 20-28(24.3) | 102 |
| Zhao Hui[[18](#_ENREF_18)] | 2022 | China | GE Voluson E8 | 2.5-6.0 | 18-28(24.0) | 380 |
| Liu Haining[[19](#_ENREF_19)] | 2022 | China | GE Voluson E8 | 2.5-7.0 | 17-27(N/A) | 242 |
| Shen Liang[[20](#_ENREF_20)] | 2022 | China | GE LOGIQ | 3.5-5.0 | 22-28(25.4) | 100 |
| Zhao Qingqing[[21](#_ENREF_21)] | 2022 | China | Hanfei Voluson S8 | 2.5-7.0 | 19-29(24.0) | 76 |
| Liu Xiaojie[[22](#_ENREF_22)] | 2022 | China | N/A | 3.0-5.0 | N/A | 60 |
| Gu Xiangmei[[23](#_ENREF_23)] | 2022 | China | N/A | 4.0-8.0 | 20-28(24.4) | 60 |
| Li Deling[[24](#_ENREF_24)] | 2022 | China | N/A | N/A | 21-29(24.9) | 300 |
| Zhang Aiwu[[25](#_ENREF_25)] | 2021 | China | GE Voluson E8 | 4.0-8.0 | 16-30(23.6) | 60 |
| Wang Qian[[26](#_ENREF_26)] | 2021 | China | PHILIPS EPIQ5 | 4.0-8.0 | 14-28(20.1) | 120 |
| Mei Bingchuan[[27](#_ENREF_27)] | 2021 | China | Dawei Medical DW-T6 | 3.5-5.0 | 18-30(24.1) | 100 |
| Chen Yingxi[[28](#_ENREF_28)] | 2020 | China | GE Voluson 730-prov | 2.5-5.0 | 19-26(22.6) | 2156 |
| Chang Ning[[29](#_ENREF_29)] | 2020 | China | GE LOGIQ E9 | 2.5-5.0 | 13-24(15.3) | 90 |
| Yu Yilin[[30](#_ENREF_30)] | 2020 | China | GE Voluson E8 | N/A | 20-26(23.2) | 3885 |
| Zhou Yinghua[[31](#_ENREF_31)] | 2020 | China | GE Voluson E8 | 4.0-8.0 | 18-26(22.7) | 68 |
| Wang Qianzhou[[32](#_ENREF_32)] | 2020 | China | PHILIPS IU-22 | 3.5 | 21-28(25.0) | 1570 |
| Liu Jieping[[33](#_ENREF_33)] | 2020 | China | N/A | N/A | 22-38(32.2) | 135 |
| Jin Jing[[34](#_ENREF_34)] | 2019 | China | GE Voluson E8 | 2.5-7.0 | 21-29(24.9) | 1568 |
| Dai Xiuli[[35](#_ENREF_35)] | 2019 | China | GE Voluson E8 | 6.0 | 14-18(N/A) | 150 |
| Wang Bo[[36](#_ENREF_36)] | 2019 | China | GE Voluson E6 | 2.5-7.0 | N/A(16.2) | 206 |
| Han Songyan[[37](#_ENREF_37)] | 2019 | China | PHILIPS IU-22 | 3.5-5.0 | 18-28(23.8) | 578 |
| Zhao Xiuna[[38](#_ENREF_38)] | 2019 | China | N/A | N/A | 24-37(28.3) | 360 |
| Cheng Jinbo[[39](#_ENREF_39)] | 2018 | China | PHILIPS IU-22 | 5.0-8.0 | 14-20(17.3) | 1200 |
| Jia Lijuan[[40](#_ENREF_40)] | 2017 | China | GE Logoiq 500 | 3.0-5.0 | 21-28(24.7) | 879 |
| Zheng Haijiang[[41](#_ENREF_41)] | 2017 | China | Mindray DC-8S | 1.0-5.0 | N/A(26.4) | 35 |
| Li Wenkai[[42](#_ENREF_42)] | 2017 | China | N/A | N/A | 21-29(25.0) | 158 |
| Tao Zhen[[43](#_ENREF_43)] | 2016 | China | PHILIPS IU-22 | 5.0-8.0 | 14-20(17.3) | 1200 |
| Yan Bing[[44](#_ENREF_44)] | 2015 | China | GE Voluson 730 Expert | 4.0-8.0 | 17-24(21.4) | 85 |
| Cai Jun[[45](#_ENREF_45)] | 2014 | China | PHILIPS IU-22 | 3.5-5.0 | N/A | 625 |
| Yeo[[46](#_ENREF_46)] | 2018 | United States | GE Voluson E6 | 2.5-7.0 | 16-37(N/A) | 150 |
| Votino[[47](#_ENREF_47)] | 2013 | Belgium | GE Voluson 730 Expert | N/A | 11-14(N/A) | 121 |
| M. Bennasar[[48](#_ENREF_48)] | 2010 | Spanish | GE Voluson 730 Expert | 4.0-8.0 | 11-16(N/A) | 342 |
| M. Bennasar[[49](#_ENREF_49)] | 2009 | Spanish | GE Voluson 730 Expert | 5.0-9.0 | 11-15(N/A) | 64 |

Note: “N/A” indicates data not reported. For the meta-regression analysis of average gestational age, studies with missing values were excluded. While this resulted in a reduced sample size for this specific covariate (n = 39), the remaining dataset provided sufficient statistical power to estimate its effect. Importantly, these missing baseline characteristics do not affect the calculation of the overall pooled diagnostic accuracy, as the primary outcome data (true positives, false positives, false negatives, and true negatives) were complete for all included studies.

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