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**Appendix S2** MEDLINE search strategy for identification of stillbirth prediction models for external validation

Stillbirth/ OR Fetal death/ OR Foetal death/ OR fetal death$.tw. OR foetal death$.tw.

OR perinatal death$.tw. OR intrauterine death$.tw. OR intrauterine fetal death$.tw.

OR intrauterine foetal death$.tw. OR perinatal fetal death$.tw. OR perinatal foetal death$.tw.

OR fetal mortality.tw. OR foetal mortality.tw. OR intrauterine fetal mortality.tw.

OR intrauterine foetal mortality.tw. OR perinatal fetal mortality.tw. OR perinatal foetal mortality.tw

AND

("predictive model"[tiab] OR "predictive models"[tiab] OR

prediction[tiab] OR "risk calculator"[tiab] OR "risk calculators"[tiab] OR "risk model"[tiab]

OR "risk models"[tiab] OR "risk score"[tiab] OR algorithm\*[tiab] OR "risk assessment"[tiab]

OR nomogram[tiab] OR "prognostic model"[tiab] OR "prognostic models"[tiab] OR "scoring

system"[tiab] OR "scoring systems"[tiab] OR "screening model"[tiab] OR "screening

models"[tiab] OR "decision rule"[tiab] OR "decision rules"[tiab])

limit to human

**Table S1** Studies identified in literature search reporting prediction models for stillbirth

| **Author, year** | **Outcome** | **Number of models reported** | **Included in validation** | **If no, reason for exclusion** |
| --- | --- | --- | --- | --- |
| Smith 2007\* | Stillbirth ≥33weeks | 2 | Yes |  |
| Yerlikaya 2016 | Stillbirth ≥24weeks | 1 | Yes |  |
| Trudell 2017 | Stillbirth ≥32weeks | 1 | Yes |  |
| Kayode 2016 | Any stillbirth | 2 | No | Predictor not available in IPPIC UK dataset |
| Payne 2015 | Stillbirth >32 weeks | 1 | No | Predictor not available in IPPIC UK dataset |
| Vellamkondu 2017 | Stillbirth <32 weeks | 1 | No | Predictor not available in IPPIC UK dataset |
| Reddy 2010 | Antepartum stillbirth | 1 | No | Model equation not published |
| Amark 2018 | Stillbirth ≥28weeks | 1 | No | Model equation not published |
| Cantarutti 2018 | Any stillbirth | 5 | No | Model equation not published |
| Mastrodima 2016 | Antepartum stillbirth | 1 | No | Model equation not published |
| Aupont 2016 | Antepartum stillbirth | 1 | No | Model equation not published |
| Akolekar 2011 | Stillbirth ≥24weeks | 4 | No | Model equation not published |
| Akolekar 2016a | Antepartum stillbirth | 5 | No | Model equation not published |
| Akolekar 2016b | Antepartum stillbirth | 5 | No | Model equation not published |
| Goyal 2015 | Intrauterine fetal demise | 1 | No | Model equation not published |
| Familiari 2016 | Stillbirth ≥24weeks | 2 | No | Model equation not published |
| Malacova 2020 | Stillbirth ≥20weeks | 6 | No | Model equation not published |

\*One of two reported models validated. Model predicting stillbirth <33 weeks not validated because there were not enough events in the IPPIC cohort IPD

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Familiari A, Scala C, et. al Mid-pregnancy fetal growth, uteroplacental Doppler indices and maternal demographic characteristics: role in prediction of stillbirth. Acta Obstet Gynecol Scand. 2016 Nov;95(11):1313-1318. doi: 10.1111/aogs.13012. PMID: 27588413.

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**Table S2** PROBAST risk of bias assessment (RoB) of cohorts from the IPPIC network database used for external validation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Study** | **Participants** | **Predictors** | **Outcome** | **Overall RoB** |
| St Georges | **+** | **+** | **+** | **+** |
| Test | **+** | **+** | **+** | **+** |
| POP | **+** | **+** | **+** | **+** |
| Allen | **+** | **+** | **+** | **+** |
| Goetzinger | **+** | **+** | **+** | **+** |
| JSOG | **+** | **?** | **+** | **?** |
| StorkG | **+** | **+** | **+** | **+** |
| Scope | **+** | **+** | **+** | **+** |
| ALSPAC | **+** | **+** | **+** | **+** |
| Antsaklis | **+** | **+** | **+** | **+** |
| WHO | **-** | **+** | **+** | **-** |
| Andersen | **+** | **+** | **+** | **+** |
| NICHD HR | **-** | **+** | **+** | **-** |
| NICHD LR | **+** | **+** | **+** | **+** |
| POUCH | **+** | **+** | **+** | **+** |
| Rumbold | **+** | **+** | **+** | **+** |
| Indonesian cohort | **+** | **+** | **+** | **+** |
| Van Oostwaard 2012 | **-** | **+** | **+** | **-** |
| Van Oostwaard 2014 | **-** | **+** | **+** | **-** |

+ indicates low RoB; − indicates high RoB; ? indicates unclear RoB

**Table S3** Proportion of cases with missing (or not recorded) data for each predictor and outcome in each cohort used for external validation

| **Dataset** |  | **N (%) missing or not recorded** | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No. of pregnancies** | **Maternal age** | **1st trimester BMI** | **2nd trimester BMI** | **1st trimester Weight** | **Ethnicity** | **Pulsatility index** | **Assisted conception** | **Smoker** | **Hypertension** | **APS/**  **SLE** | **Previous stillbirth** | **Nulliparous** | **Pre-gestational diabetes** | **Outcome** |
| St Georges | 54635 | 0 | 13286 (24) | 25186 (46) | 12173 (22) | 1082 (2) | 28109 (51) | 1427 (3) | 4053 (7) | 0 (0) | N/A | N/A | 104 (<1) | N/A | 0 |
| Test | 557 | 0 | 1 (<1) | N/A | 1 (<1) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A | 11 (2) |
| POP | 4212 | 0 | 152 (4) | 57 (1) | 146 (3) | 0 | 133 (3) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 (<1) |
| Allen | 1045 | 1 (<1) | 5 (<1) | 1040 (99) | 5 (<1) | 2 (<1) | 1040 (99) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Goetzinger | 4035 | 72 (2) | 606 (15) | N/A | 531 (13) | 63 (2) | N/A | 92 (2) | 244 (6) | 281 (7) | 0 | 0 | 302 (7) | 3406 (84) | 11 (<1) |
| JSOG | 379390 | 1108 (<1) | 53711 (14) | NA | 51196 (13) | 0 | N/A | 0 | 79224 (21) | 0 | 0 | 0 | 1490 (<1) | 0 | 10 (<1) |
| StorkG | 812 | 0 | 414 (51) | 245 (30) | 414 (51) | 0 | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 (<1) |
| Scope | 5628 | 0 | 5490 (98) | 7 (<1) | 5490 (98) | 0 | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ALSPAC | 15038 | 2047 (14) | 3103 (21) | N/A | 9884 (66) | 2953 (20) | N/A | 2861 (19) | 2666 (18) | 3001 (20) | N/A | 2232 (15) | 2439 (16) | 2813 (19) | 77 (<1) |
| Antsaklis | 3328 | 11 (<1) | 480 (14) | 2966 (89) | 122 (4) | 7 (<1) | 3204 (96) | N/A | 6 (<1) | 0 | 0 | 0 | 0 | 0 | 3 (<1) |
| WHO | 7273 | 1 (<1) | 2585 (36) | 1078 (15) | 4 (<1) | 6 (<1) | N/A | N/A | 2 (<1) | 1 (<1) | 2 (<1) | N/A | 0 | 1 (<1) | 5548 (77) |
| Andersen | 2120 | 0 | 1070 (50) | 1506 (71) | 650 (31) | 292 (14) | N/A | N/A | 2 (<1) | 192 (9) | N/A | N/A | 0 | 193 (9) | 0 |
| NICHD HR | 1848 | 9 (<1) | 1711 (93) | 157 (9) | 18 (1) | 0 | N/A | N/A | 0 | 0 | N/A | N/A | 0 | 0 | 28 (2) |
| NICHD LR | 3097 | 99 (3) | 3024 (98) | 177 (6) | 95 (3) | 0 | N/A | N/A | 6 (<1) | 0 | 0 | 0 | 0 | 0 | 159 (5) |
| POUCH | 3019 | 0 | 1 (<1) | 1 (<1) | 0 | 0 | N/A | N/A | 6 (<1) | 1 (<1) | 2458 (81) | 14 (<1) | 1 (<1) | 0 | 0 |
| Rumbold | 1877 | 0 | 967 (52) | 1128 (60) | 171 (9) | 4 (<1) | N/A | 39 (2) | 39 (2) | 0 | N/A | 0 | 0 | 0 | 0 |
| Indonesian cohort | 2223 | 74 (3) | 203 (9) | 1601 (72) | 935 (42) | 0 | N/A | N/A | 1249 (56) | 18 (1) | N/A | N/A | 667 (30) | 1 (<1) | 499 (22) |
| Van Oostwaard 2012 | 425 | 232 (55) | 265 (62) | N/A | N/A | 82 (19) | N/A | N/A | 242 (57) | 273 (64) | 278 (65) | 0 | 0 | 278 (65) | 235 (55) |
| Van Oostwaard 2014 | 639 | 329 (51) | 388 (61) | N/A | N/A | 138 (22) | N/A | N/A | 350 (55) | 404 (63) | 407 (64) | 0 | 0 | 406 (64) | 334 (53) |

N/A = Predictor variable not reported in cohort

**Table S4** Summary of linear predictors and predicted probabilities for each cohort used for external validation

| **Author, year** | **Outcome** | **Study** | **N Total** | **No. Events (%)** | **Linear predictor** | | | **Predicted probability** | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Median** | **Interquartile range** | **Range**  **(min to max)** | **Median** | **Interquartile range** | **Range**  **(min to max)** |
| Smith 2007 | Stillbirth ≥33weeks | St Georges | 54635 | 148 (0.27) | -6.76 | -7.11 to -6.28 | -7.57 to -3.85 | 0.00116 | 0.00081 to 0.00186 | 0.00052 to 0.02095 |
| TEST | 557 | 4 (0.72) | -6.77 | -7.10 to -6.323 | -7.43 to -4.03 | 0.00115 | 0.00082 to 0.00179 | 0.00059 to 0.01755 |
| POP | 4212 | 8 (0.18) | -6.74 | -7.08 to -6.30 | -7.52 to -4.38 | 0.00118 | 0.00083 to 0.00183 | 0.00054 to 0.01236 |
| Yerlikaya 2016 | Stillbirth ≥24weeks | Allen | 1045 | 3 (0.29) | -4.56 | -4.66 to -4.43 | -5.37 to -0.96 | 0.0103 | 0.0094 to 0.0118 | 0.0046 to 0.2780 |
| Goetzinger | 4035 | 26 (0.64) | -3.49 | -3.60 to -3.06 | -3.87 to 0.41 | 0.0297 | 0.0266 to 0.0446 | 0.0205 to 0.5992 |
| JSOG | 379390 | 1802 (0.47) | -4.70 | -4.76 to -4.62 | -5.61 to 0.74 | 0.0090 | 0.0085 to 0.0097 | 0.0036 to 0.3235 |
| StorkG | 812 | 7 (0.86) | -4.52 | -4.62 to -4.36 | -5.28 to 2.48 | 0.0107 | 0.0097 to 0.0126 | 0.0051 to 0.0771 |
| Trudell 2017 | Stillbirth ≥32weeks | Scope | 5628 | 9 (0.16) | -6.54 | -6.56 to -6.33 | -8.00 to -4.78 | 0.00145 | 0.00142 to 0.00179 | 0.00034 to 0.00834 |
| Allen | 1045 | 3 (0.29) | -6.54 | -6.88 to -6.35 | -7.47 to -4.91 | 0.00145 | 0.00103 to 0.00175 | 0.00057 to 0.00731 |
| ALSPAC | 15038 | 27 (0.18) | -6.54 | -6.88 to -6.31 | -7.81 to -4.10 | 0.00145 | 0.00103 to 0.00181 | 0.00041 to 0.01634 |
| Goetzinger | 4035 | 24 (0.59) | -6.67 | -6.69 to -6.32 | -7.50 to -3.65 | 0.00127 | 0.00124 to 0.00179 | 0.00056 to 0.02565 |
| Antsaklis | 3328 | 2 (0.06) | -5.91 | -6.29 to -5.72 | -7.41 to -4.07 | 0.00271 | 0.00191 to 0.00326 | 0.00061 to 0.01680 |
| WHO | 7273 | 63 (0.87) | -6.54 | -6.56 to -6.54 | -8.00 to -3.64 | 0.00145 | 0.00142 to 0.00145 | 0.00034 to 0.02554 |
| Andersen | 2120 | 4 (0.19) | -6.54 | -6.88 to -6.54 | -7.47 to -4.66 | 0.00145 | 0.00103 to 0.00145 | 0.00057 to 0.00984 |
| NICHD HR | 1848 | 8 (0.43) | -5.63 | -6.03 to -5.14 | -7.75 to -3.23 | 0.00357 | 0.00241 to 0.00581 | 0.00043 to 0.03799 |
| NICHD LR | 3097 | 7 (0.23) | -6.54 | -6.55 to -5.68 | -7.53 to -4.84 | 0.00145 | 0.00143 to 0.00340 | 0.00055 to 0.00782 |
| POUCH | 3019 | 4 (0.13) | -6.54 | -6.72 to -6.04 | -8.00 to -4.41 | 0.00145 | 0.00121 to 0.00238 | 0.00034 to 0.01206 |
| Rumbold | 1877 | 9 (0.48) | -6.54 | -6.56 to -6.28 | -8.00 to -4.71 | 0.00145 | 0.00142 to 0.00187 | 0.00034 to 0.00892 |
| JSOG | 379390 | 897 (0.24) | -6.54 | -6.88 to -6.54 | -8.00 to -3.86 | 0.00145 | 0.00103 to 0.00145 | 0.00034 to 0.02072 |
| Indonesian cohort | 2223 | 11 (0.49) | -6.56 | -6.88 to -6.54 | -7.75 to -4.77 | 0.00142 | 0.00103 to 0.00145 | 0.00043 to 0.00839 |
| StorkG | 812 | 6 (0.74) | -6.56 | -6.88 to -6.40 | -7.47 to -5.21 | 0.001418 | 0.00103 to 0.00166 | 0.00057 to 0.00544 |
| Van Oostwaard 2012 | 425 | 14 (3.29) | -6.67 | -6.88 to -6.09 | -7.48 to -3.89 | 0.001269 | 0.00103 to 0.00227 | 0.00057 to 0.02042 |
| Van Oostwaard 2014 | 639 | 4 (0.63) | -6.56 | -6.88 to -6.03 | -7.52 to -4.23 | 0.001425 | 0.00103 to 0.00241 | 0.00055 to 0.01522 |
| OP | 4212 | 8 (0.19) | -6.54 | -6.56 to -6.33 | -7.72 to -4.15 | 0.00145 | 0.00142 to 0.00179 | 0.00044 to 0.01547 |