**Appendix 11: Fetal Ultrasound Datasets with regions shown, clinical use and impact on diagnostic accuracy**

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| **Dataset Name** | **Type of Images** | **Fetal region shown in dataset** | **Clinical Use** | **Impact on Diagnostic Accuracy** |
| FPUS23: An Ultrasound Fetus Phantom Dataset | 2D | Head, abdomen, arms, legs | Identification of diagnostic planes, fetus orientation, anatomical features | High accuracy in detecting diagnostic planes, fetus orientation, and fetus anatomy |
| Large-scale annotation dataset for fetal head biometry | 2D | Brain, CSP, LV | Detailed annotations of fetal head biometry | High annotation reliability |
| JNU-IFM dataset for segmenting pubic symphysis-fetal head | 2D | Pubic symphysis, fetal head | Development of automatic measurement algorithms, evaluation of other ITU parameters | Useful for developing and evaluating automated SP-fetal head segmentation algorithms |
| Ultrasound and anatomical cross-sectional database of fetal heart malformations | 3D | Heart (various views) | Training imagers to recognize cardiovascular pathology during fetal heart screening | Helps in recognizing cardiovascular pathology |
| PSFHS: Intrapartum ultrasound image dataset | 2D | Pubic symphysis, fetal head | Monitoring of labor progression | Enhances AI model development |
| AI study of fetus head characterization in early pregnancy | 2D | Thalami, midbrain, palate, 4th ventricle, cisterna magna, NT, nasal tip, nasal skin, nasal bone | Identification of nine key intracranial structures, classification of standard and non-standard sagittal views | High accuracy and AUC in both internal and external tests |
| Generalisability of fetal ultrasound deep learning models in Africa | 2D | Femur, thorax, head, abdomen | Classification of fetal planes | High performance in low-resource settings |
| Automated measurement of fetal head circumference | 2D | Fetal head circumference (HC) | Automated measurement of HC, estimation of gestational age (GA) | Comparable to an experienced sonographer |
| Fetal Abdominal Structures Segmentation Dataset | 2D | Abdominal circumference (AC), fetal stomach, aorta artery, spine, intrahepatic portion of the umbilical vein | Accurate measurement of abdominal circumference | Facilitates accurate measurement of abdominal circumference |
| Automated annotation of ultrasound videos of the fetal heart | 2D | Fetal heart | Detection and classification of fetal heart views, estimation of cardiac phase and orientation | Significant improvement in prediction accuracy with particle filtering |
| Real-time diameter of the fetal aorta from ultrasound | 2D | Fetal abdominal aorta | Measurement of the vascular diameter of the fetal abdominal aorta | Reduces mean squared error and relative error compared to previous methods |
| Values and validity of fetal parameters by ultrasound and Doppler | 2D | Fetal lungs, umbilical artery, uterine artery, middle cerebral artery, main pulmonary artery | Assessment of fetal lung maturity to predict neonatal respiratory distress syndrome (RDS) | High sensitivity and specificity for predicting fetal lung maturity |
| Generative Diffusion Model for fetal ultrasound images in Africa | 2D | Abdomen, Brain, Femur, Thorax | Improvement in zero-shot classification accuracy of fetal ultrasound images in low-resource settings | Achieved highest accuracy, F-score, and AUC |
| Automatic detection of cardiac cycles in antenatal pulsed-wave Doppler signals | 2D | Fetal heart (apical five-chamber view), PWD signals | Detection accuracy of complete and measurable cardiac cycles | High accuracy with supervised classifier |