Obstetric Ultrasound

Detailed First Trimester
Presence and location of gestational sac
Presence or absence of embryo/fetus: singleton
Presence or absence of cardiac activity (demonstrated by M-mode)
Cervix/Cul-de-sac
Uterus
Adnexa
BPD or HC measurement
Femur length
Abdominal circumference or diameter

Circumference

Diameter
Ventricles and cortex
Choroid Plexus
Falx cerebri
Posterior fossa

Cisterna Magna
Transventricular cranial bones
Third ventricle
Transthalamic plane – thalami, cerebral peduncles, third ventricle and aqueduct of Sylvius
Sagittal: thalami-midbrain, brainstem, 4th ventricle (intracranial lucency), and cisterna magna
Axial or coronal orbits – size and position
Profile (mid sagittal) including mandible
Sagittal maxilla
Retronasal triangle with ancillary bones
Coronal mandible
Coronal upper lip
Coronal lenses
Coronal ears
Sagittal neck
NT demonstrated in a sagittal plane
NT measurement performed correctly
Four chamber view of the heart – with and without color flow
FHR demonstrated by M-mode; clip preferred
Cardiac position and axis
Cardiac angle measurement
3 vessel trachea view with color
Tricuspid valve flow
Sagittal aortic arch with color
Sagittal ductal arch with color
Symmetric lungs demonstrated in coronal and/or axial
Ribs demonstrated with normal shape, length, and ossification
Sagittal diaphragm demarcation
Axial plane at the level of the stomach; stomach demonstrated on the left side
Coronal plane at the level of the kidneys
Color of renal vessels performed if kidneys not well seen or if indicated or suspicious
Axial plane at the level of the bladder/cord insertion (bladder with fluid)
Liver demonstrated on the right
Color Doppler of umbilical arteries on each side of the bladder
Umbilical cord insertion into the abdominal wall
Portal vein coursing away from stomach
Sagittal contour of the anterior wall (rule out hydrops/masses)
Ductus venosus flow
Four extremities
3 long bones present; 3D assessment performed
2D confirmation of hands/fingers and feet/toes
Longitudinal vertebral elements/alignment and skin edge
Umbilical cord insertion into the placenta
Placental echotexture and relationship with internal os or lower uterine segment