

Weekly management and screening of monochorionic gestations

Twin-to-twin transfusion syndrome (TTTS) can develop rapidly, so women carrying twins who share a placenta should undergo frequent ultrasounds to evaluate amniotic fluid volumes. Typically, ultrasounds are performed every two weeks, starting at 16 weeks. The frequency of ultrasounds then increases during the third trimester.

Week	TTTS screening	Growth ultrasound	Level 2 ultrasound	Fetal echo	Antenatal testing
16	●	●		●	
18	●				
20	●		●		
22	●			●	
24	●	●			
26	●				
28	●	●			
30	●				
32	●	●			●
33					●
34	●				●
35					●
36	●	●			●
37	Delivery				

- **TTTS screening** – This screening includes checking amniotic fluid levels, bladder size and function of both fetuses. Doppler sonography of the umbilical artery (UA), fetal middle cerebral artery (MCA), ductus venosus (DV), and umbilical vein (UV) will look for other signs of TTTS or abnormalities.
- **Growth ultrasound** – Measurements of various body parts are taken to ensure the fetuses are growing normally. The position and movements of the babies are also noted, as well as the position of the placenta and level of amniotic fluid in the womb.
- **Level 2 ultrasound (LVL II)** – Also known as an anatomy scan, this exam closely looks for abnormalities in the four chambers of the heart, kidneys, bladder, stomach, brain, spine, and genitalia.
- **Fetal echocardiogram (echo)** – This specialized ultrasound examines the structure and function of the baby's heart. It helps identify and diagnose congenital heart defects and other abnormalities before birth.
- **Antenatal testing** – This consists of a biophysical profile (BPP) and a non-stress test (NST) to assess and monitor fetal well-being and placenta function.

About the Midwest Fetal Care Center

The Midwest Fetal Care Center (MWFCC), a collaboration between Allina Health and Children's Minnesota, brings together a multi-disciplinary team of highly trained maternal-fetal medicine experts from Allina Health and pediatric and neonatal specialists from Children's Minnesota. Open since 2008, the MWFCC is a national referral center and regional leader in fetal diagnosis, fetal intervention, and comprehensive fetal care for unborn babies with complex conditions. childrensMN.org/TTTS