Fetal Care Center





Volumes & Outcomes Summary 2024

The Fetal Care Center is one of few comprehensive fetal care centers in the world. Led by physicians from **Cincinnati Children's**, **TriHealth and UC Health**, our team specializes in treating complex and rare fetal conditions and is at the forefront of innovation in fetal diagnosis and intervention therapies. Our experience and expertise is shown in our volume and outcomes.

Information in this document is based on data from fetal patients cared for by Cincinnati Children's Fetal Care Center from February 1, 2004 through June 30, 2024, except where otherwise noted.

Care for the Full Spectrum of Fetal Conditions

Total Evaluations 9,347
Twin-Twin Transfusion Syndrome (TTTS)
Bladder Outlet Obstruction (BOO)/Posterior Urethral Valves (PUV) 635
Myelomeningocele (MMC)/Spina Bifida
Congenital Diaphragmatic Hernia (CDH)
Congenital Pulmonary Airway Malformation (CPAM/CCAM)
and Bronchopulmonary Sequestration (BPS)
Fetal Tumors
Twin Reversed Arterial Perfusion (TRAP) Sequence
Amniotic Band Syndrome (ABS)
Neurological Abnormalities (excluding MMC)*
Chorioangioma
Genitourinary Anomalies (excluding BOO/PUV)*
Other



See the comprehensive list of fetal conditions we treat **HERE**.

*Data for July 1, 2023 through June 30, 2024 only

Experience When Needed Most

In addition to amnioinfusions, amnioreductions, intrauterine transfusions, amniocentesis, and shunts; we have also performed the following procedures.

Total Procedures	2,164
Surgical Procedures	
Fetoscopic	1,873
Open Fetal Surgeries (excluding EXIT)	83
Delivery Interventions	
Cesarean with ECMO standby	96
Ex-utero Intrapartum Treatment (EXIT)	80
Delivery with Procedures on Placental Support (POPS)	47
Special Delivery Unit (SDU) Deliveries	717

Our team consistently ranks among the top in the nation for our extensive experience in fetoscopic procedures.

Congenital Diaphragmatic Hernia (CDH)

All patients with CDH are cared for by our dedicated CDH team of maternal-fetal medicine specialists, neonatologists, pediatric surgeons, pediatric cardiologists, ECMO specialists, nurses, nutritionists and therapists. After birth, these patients can continue their care in our CDH Program.

Our surgeons have performed more than 55 FETO procedures.

Patients with severe CDH receiving FETO had lower rates of ECMO use, shorter days on mechanical ventilation, and shorter length of stay in the NICU.

Fetoscopic Endoluminal Tracheal Occlusion (FETO)

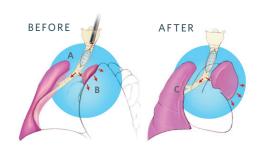
We provide FETO intervention for Left and Right sided CDH based on criteria and patient evaluation.







The fetoscope instrument is guided through a small incision in the mother's uterus and into the fetal trachea.



- A. Balloon inflated inside baby's trachea
- B. Pressure helps lungs to grow
- C. Balloon traps fluid inside lung and pressure helps lungs to grow

Bladder Outlet Obstruction (BOO)/Posterior Urethral Valves (PUV)

Total Evaluations	5
Fetoscopic Interventions	7
Serial amnio-infusions for in-utero kidney failure	*
Amnioport4	3
Percutaneous needle	1

Our team has also performed several hundreds of the following procedures:

- · Vesicoamniotic shunting
- Bladder taps
- · Peritoneal-amniotic shunting for urinary ascites
- * Data includes amnioports for serial amnio-infusions for in-utero kidney failure due to BOO and other kidney disorders from January 1, 2011 June 30, 2024.

As the first in the nation to offer the CARPEDIEM™ Machine—a groundbreaking technology providing lifesaving dialysis for newborns in our NICU our Medical Center is pioneering innovative care to improve neonatal outcomes.



Watch our BOO surgical animation video **HERE.**

Twin-Twin Transfusion Syndrome (TTTS)

Total Evaluations	.2,512
Twins	. 2,403
Triplets	109
Fetoscopic Interventions	1,553



Fetoscopic Laser Photocoagulation (FLP) Procedures

Total FLP Procedures Performed
Placenta Position
Posterior Placenta
Anterior Placenta
Gestational Age at Procedure
16-18 Weeks
18-24 Weeks
24-28 Weeks

Our center has performed more Fetoscopic Laser Photocoagulation (FLP) procedures for TTTS than most other centers in the nation with a 97% survival rate of at least one twin*.

Survival Rates for Patients Undergoing FLP Procedures

Quintero Stages I, II, III

All patients including those with placental insufficiency/ growth restriction and short cervix.

Twin gestations from July 1, 2022 to June 30, 2024

Survival of at Least One Twin	6
Survival of Both Twins	6
Overall Survival	%

Quintero Stage IV

All patients including those with placental insufficiency/ growth restriction and short cervix.

Twin gestations from July 1, 2011 to June 30, 2024

^{*}All TTTS patients (Stage I-III) including concurrent selective fetal growth restriction and short cervix, from July 1, 2022 to June 30, 2024.

Myelomeningocele (MMC)/Spina Bifida

Total Evaluations	563
Prenatal MMC Repairs	154
Open Repairs	58
Fetoscopic Repairs*	96

42%* of patients receiving fetoscopic repairs delivered vaginally.

We are recognized as a leading center in the nation for MMC evaluations, prenatal repair, postnatal care and long-term management.

Fetoscopic Myelomeningocele (MMC)/Spina Bifida Repair







video HERE.

Fetoscopic repair uses three small ports inserted into the mother's womb. The ports allow for placement of instruments for the repair. The exposed nerves and neural placode are carefully released from their attachment and are then protected and covered with a double layer of neural-substitute patch. Skin defect is then sutured closed if possible. Otherwise, a skin-substitute patch will be used to cover the skin defect.

Congenital Pulmonary Airway Malformation (CPAM/CCAM) and Bronchopulmonary Sequestration (BPS)

Total Evaluations	2
Procedures by Type	
Open Fetal Surgery	.7
EXIT-to-Resection	13
Shunt Placement	52

Patients diagnosed with low risk CPAM and treated at our center have a 100% survival rate.

Twin Reversed Arterial Perfusion (TRAP) Sequence

Patients with TRAP Sequence treated with Radiofrequency Ablation (RFA) have a 97% survival rate.

Contact Us:



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Cincinnati Children's is consistently recognized by U.S. News & World Report as a top children's hospital.

^{*} Data reflects repairs starting in 2016.