

Volumes & Outcomes Summary 2020

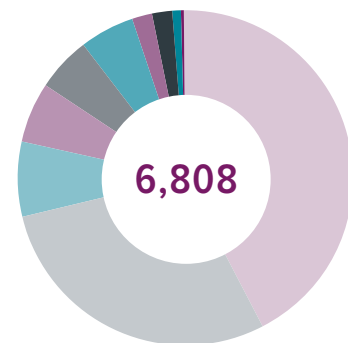
As one of only a few comprehensive fetal care centers in the nation, Cincinnati Children's Fetal Care Center is at the forefront of innovations in fetal diagnostics and intervention therapies. Our experience and expertise show in our volumes and outcomes.

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, 2020, except where otherwise noted.

Care for the Full Spectrum of Fetal Conditions

Total Evaluations **6,808**

■ Twin-Twin Transfusion Syndrome (TTTS).....	1,984
■ Bladder Outlet Obstruction (BOO)/Posterior Urethral Valves (PUV) . . .	482
■ Myelomeningocele (MMC)/Spina Bifida	397
■ Congenital Pulmonary Airway Malformation (CPAM)	367
■ Congenital Diaphragmatic Hernia (CDH)	351
■ Fetal Tumors	143
■ Twin Reversed Arterial Perfusion (TRAP) Sequence	122
■ Amniotic Band Syndrome (ABS)	62
■ Chorioangioma	21
■ Other	2,879



Experience When Needed Most

We have performed the following procedures, in addition to amnioinfusions, amnioreductions, intrauterine transfusions, amniocentesis, and shunts.

Total Procedures **1,857**

Ultrasound-Based Procedures

■ Radiofrequency Ablation (RFA)	122
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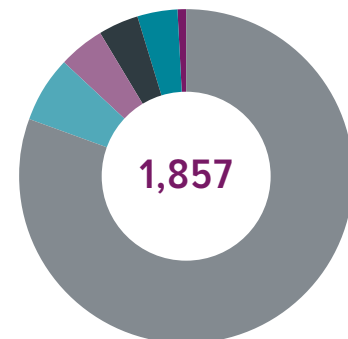
Surgical Procedures

■ Fetoscopic	1,497
■ Open Fetal Surgeries (excluding EXIT)	81

Delivery Interventions

■ Cesarean with ECMO standby	73
■ Ex-utero Intrapartum Treatment (EXIT)	70
■ Delivery with Procedures on Placental Support	14

Special Delivery Unit Deliveries **311**



Our team has performed more fetoscopic procedures than any other program in the nation.

Our Center is the only center in the nation to offer the Carpediem™ Machine — a breakthrough technology providing dialysis for newborns in our NICU.

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, nurses, nutritionists and therapists. After birth, these patients can continue their care in our CDH Program.

Total Evaluations **351**

Survival to Discharge

Low Risk CDH **100%***

Severe CDH (post FETO) **80%**

All survivors, post FETO treatment, were discharged without oxygen supplementation.

Severe CDH is defined as observed to expected lung area to head circumference ratio of less than 25% and with liver herniation.

Survival data includes CDH patients with isolated and non-isolated right or left defect from July 1, 2016 through June 30, 2020.

**Low Risk CDH survival data is approaching 100%*

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

Total Evaluations **482**

Fetoscopic Interventions **26**

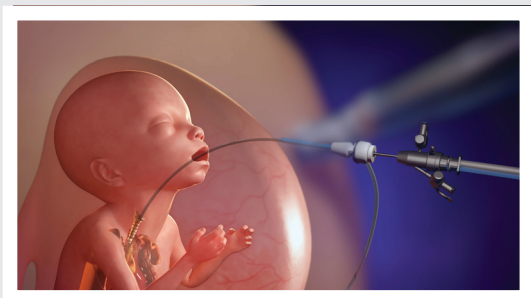
Open Fetal Vesicostomy **6**

Amnioport for Serial Amnio-infusions **31**

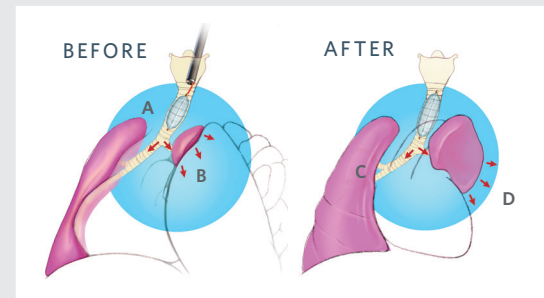
Performed as adjunct therapy for BOO/PUV and other GU anomalies including renal agenesis

Vesicoamniotic shunting and percutaneous needle amnioinfusion are also surgical options offered by our team.

Fetoscopic Endoluminal Tracheal Occlusion (FETO)



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



A balloon is then inserted into the airway and inflated with fluid to block the trachea in order to accelerate lung growth.

Our surgeons have performed more than 40 FETO procedures.

Our Center has performed more SFLP procedures for TTTS than any other center in the nation with a 91% survival rate of at least one twin.*

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

Twin-Twin Transfusion Syndrome (TTTS)

Total Evaluations	1,984
Twins	1,892
Triplets	92
Fetoscopic Interventions	1,290

Selective Fetoscopic Laser Photocoagulation (SFLP) Procedures

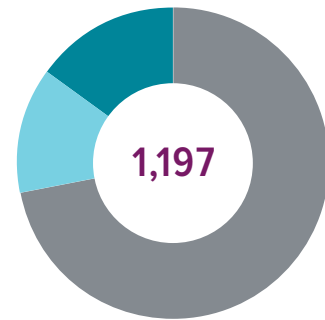
Total SFLP Procedures Performed	1,197
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SFLP Procedures by Type

Posterior Placenta	625 (52%)
Anterior Placenta	572 (48%)

SFLP Procedures by Gestational Age

■ 16-18 WK GA	159 (13%)
■ 18-24 WK GA	860 (72%)
■ 24-28 WK GA	178 (15%)



SFLP Procedures by Gestational Age

Survival Rates for Patients Undergoing SFLP Procedures

Quintero Stages I, II, III

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

Survival of at Least One Twin.....	92%
Survival of Both Twins.....	74%
Overall Survival.....	83%

Quintero Stage IV

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

Survival of at Least One Twin.....	90%
Survival of Both Twins.....	80%
Overall Survival.....	85%

**Data reflects twin gestations from July 1, 2011 to June 30, 2020 with available outcome data.*

We are the 3rd largest center in the nation for MMC procedures performed.

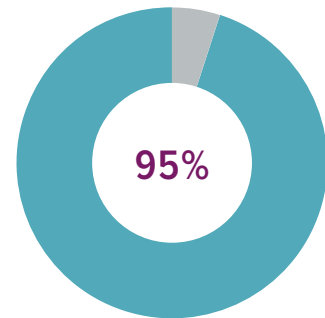
Myelomeningocele (MMC)/Spina Bifida

Total Evaluations	397
Prenatal MMC Repairs	97
Fetoscopic Prenatal MMC Repairs*	42
Fetoscopic Prenatal MMC Repairs Delivered Vaginally*	40%

*Data reflects repairs starting in 2016.

Congenital Pulmonary Airway Malformation (CPAM)

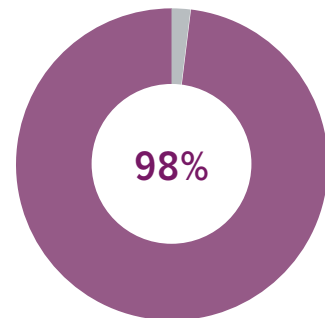
Total Evaluations	367
Procedures by Type	
Open Fetal Surgery	7
EXIT-to-Resection	11
Shunt Placement	35



Fetal patients diagnosed with CPAM and treated at our Center have a 95% survival.



Twin Reversed Arterial Perfusion (TRAP) Sequence

Total Evaluations	122
Fetal Interventions	87
Radiofrequency Ablation (RFA)	83
Bipolar Cord Coagulation	4
Survival Rate	98%



Fetal patients diagnosed with TRAP Sequence and treated at our Center have a 98% survival.

Contact Us:

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Cincinnati Children's is ranked #3 in the nation in U.S. News & World Report's 2020-21 Best Children's Hospitals report.