

Outcomes Data: Laser Ablation for Twin-Twin Transfusion Syndrome

Twin-Twin Transfusion Syndrome (TTTS) – Experience Matters

The Fetal Center at Children’s Memorial Hermann Hospital utilizes the experience and expertise of internationally recognized affiliated fetal surgeons to provide the highest level of care to patients. As a national referral program, The Fetal Center currently receives patient referrals from 38 states and continues to serve as a leader in fetal diagnosis, fetal intervention and comprehensive fetal care for unborn babies with abnormalities.

Below is an overview of The Fetal Center’s clinical outcomes data for the treatment of TTTS. We strive to provide our patients and community with the most up-to-date information on our patient outcomes. Our hope is that the below data serves as a helpful resource to you when making informed decisions regarding your care.

For more information about our data, contact The Fetal Center at 832.325.7288.

Overall Summary

Since 2011, The Fetal Center has performed 618 cases of laser photocoagulation for the treatment of TTTS at Children’s Memorial Hermann Hospital. The data below reflects surgical volume from September 2011 – November 10, 2020 and represents 530 patients with known outcomes at 30 days post-delivery.

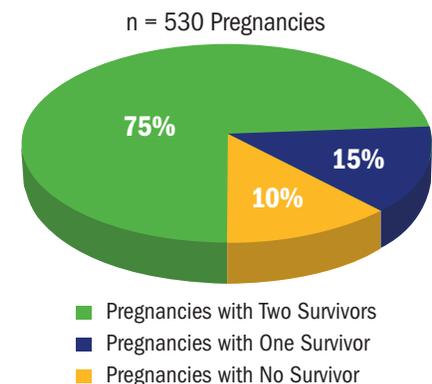
Overall, survival of both babies is seen in 75 percent of cases, with survival of one twin in 15 percent of cases.

Total Number of Laser Case Procedures:	618
Number of Laser Repeat Cases	8
Number of Deliveries	573
Number of Deliveries with Known 30-Day Outcome	530

Survival Rate at 30 Days Post-Delivery

30-Day Post-Delivery Survival Rate by Gestational Age at Time of Fetal Intervention				
Gestational Age at Time of Procedure	Total	Pregnancies with Two Survivors	Pregnancies with One Survivor	Pregnancies with No Survivors
16 - 18 weeks	163	112 (69%)	31 (19%)	20 (12%)
19 - 21 weeks	211	165 (78%)	21 (10%)	25 (12%)
22 - 24 weeks	110	82 (75%)	18 (16%)	10 (9%)
25 - 27 weeks	42	33 (79%)	9 (21%)	0 -
28+ weeks	4	3 (75%)	1 (25%)	0 -
SUMMARY	530	395 (75%)	80 (15%)	55 (10%)

Survival Rate at 30 Days Post-Delivery



(over)

TTS 30-Day Post-Delivery Survival Rate by Cervical Length

The Fetal Center is committed to a highly aggressive approach to the overall survival of all twin pregnancies, treating some of the rarest and high risk cases—including mothers with a cervical length of less than 1.5 cm, which increases a mother’s risk of spontaneous preterm birth by almost 50 percent, according to the *American Journal of Obstetrics and Gynecology*.

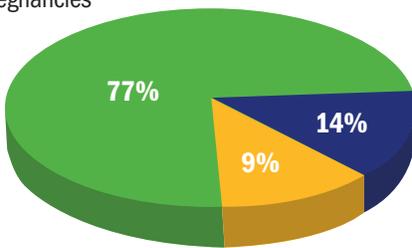
The below data reflects surgical volume from September 2011 - November 10, 2020. The data represents 530 patients with known outcomes at 30 days post-delivery, specifically highlighting outcomes based on mothers’ cervical length. As noted below, a cervical length of ≥ 1.5 cm was found in 95% of cases at The Fetal Center.

TTS 30-Day Post-Delivery Survival Rate by Cervical Length				
	Number of Cases	Pregnancies with Two Survivors	Pregnancies with One Survivor	Pregnancies with No Survivor
Number of cases with Cervical Length ≥ 1.5 cm	506	383 (76%)	77 (15%)	46 (9%)
Number of cases with Cervical Length < 1.5 cm	24	12 (50%)	3 (12.5%)	9 (38%)
Total	530	395 (75%)	80 (15%)	55 (10%)

Note: Those with a cervical length of less than 1.5 cm are at increased risk and should be seen by a physician as soon as possible. Please call The Fetal Center at 832.325.7288.

30-Day Post-Delivery Survival Rate: Cervical Length ≥ 1.5 cm

n = 530 Pregnancies



- Pregnancies with Two Survivors
- Pregnancies with One Survivor
- Pregnancies with No Survivor

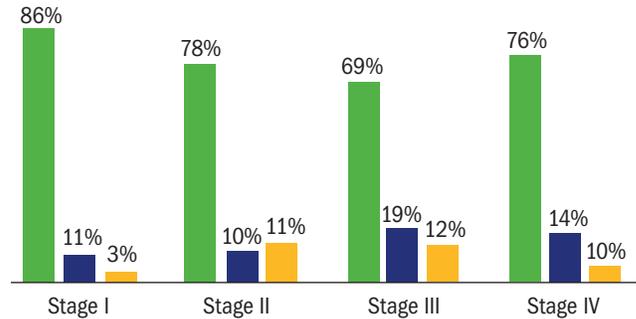
30-Day Post-Delivery Survival Rate by TTS Stage

The tables below reflect surgical volume from September 2011 - November 10, 2020 and represents data from 530 patients with known outcomes at 30 days post-delivery.

30-Day Post-Delivery Survival Rate by TTS Stage				
TTS Stage	Cases (percent of total cases*)	Percent of Pregnancies with Two Survivors	Percent of Pregnancies with One Survivor	Percent of Pregnancies with No Survivor
Stage I	66 (12%)	86%	11%	3%
Stage II	158 (30%)	78%	10%	11%
Stage III	285 (54%)	69%	19%	12%
Stage IV	21 (4%)	76%	14%	10%

30-Day Post-Delivery Survival Rate by TTS Stage

n = 530 Pregnancies



- Pregnancies with Two Survivors
- Pregnancies with One Survivor
- Pregnancies with No Survivor

We encourage you to reach out to other healthcare centers to request and review their outcomes data. Then use the information available when choosing your healthcare options.

For more information about our data, call 832.325.7288.