

# 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 nationally 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 668 cases of laser photocoagulation for the treatment of TTTS at Children's Memorial Hermann Hospital. The data below reflects surgical volume from September 2011 – January, 11, 2022 and represents 598 patients with known outcomes at 30 days post-delivery.

**Overall, survival of both babies is seen in 76 percent of cases, with survival of one twin in 14 percent of cases.**

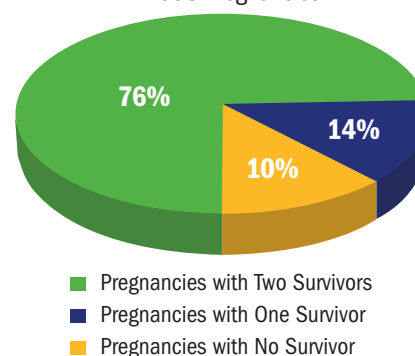
<b>Total Number of Laser Case Procedures:</b>	<b>668</b>
Number of Laser Repeat Cases	9
Number of Deliveries	655
Number of Deliveries with Known 30-Day Outcome	598

## 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	188	127 (68%)	35 (19%)	26 (14%)
19 – 21 weeks	232	186 (80%)	23 (10%)	23 (10%)
22 – 24 weeks	125	96 (77%)	18 (14%)	11 (9%)
25 – 27 weeks	48	39 (81%)	8 (17%)	1 (2%)
28+ weeks	5	5 (100%)	0 (0%)	0 (0%)
<b>SUMMARY</b>	<b>598</b>	<b>453 (76%)</b>	<b>84 (14%)</b>	<b>61 (10%)</b>

## Survival Rate at 30 Days Post-Delivery

n = 598 Pregnancies



(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*.

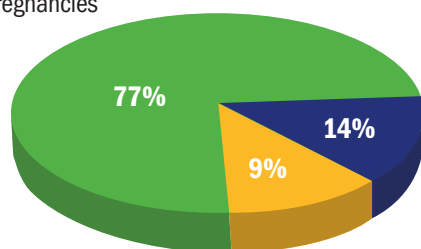
The below data reflects surgical volume from September 2011 – January 11, 2022. The data represents 598 patients with known outcomes at 30 days post-delivery, specifically highlighting outcomes based on mothers' cervical length. As noted below, a cervical length of  $\geq 1.5$  cm was found in 95% of 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 $\geq 1.5$ cm	571	439 (77%)	82 (14%)	50 (9%)
Number of cases with Cervical Length $< 1.5$ cm	27	13 (48%)	3 (11%)	11 (40%)
<b>Total</b>	<b>598</b>	<b>452 (76%)</b>	<b>85 (14%)</b>	<b>61 (10%)</b>

*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 $\geq 1.5$ cm

n = 598 Pregnancies



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

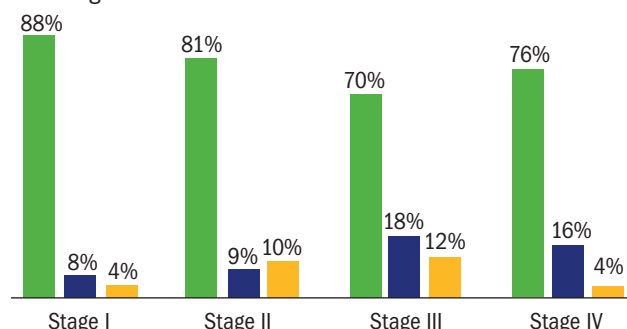
### 30-Day Post-Delivery Survival Rate by TTTS Stage

The tables below reflect surgical volume from September 2011 – January 11, 2022 and represents data from 598 patients with known outcomes at 30 days post-delivery.

30-Day Post-Delivery Survival Rate by TTTS Stage				
TTTS Stage	Cases (percent of total cases*)	Percent of Pregnancies with Two Survivors	Percent of Pregnancies with One Survivor	Percent of Pregnancies with No Survivor
<b>Stage I</b>	76 (13%)	67 (88%)	6 (8%)	3 (4%)
<b>Stage II</b>	170 (28%)	138 (81%)	15 (9%)	7 (10%)
<b>Stage III</b>	327 (55%)	228 (70%)	60 (18%)	39 (12%)
<b>Stage IV</b>	25 (4%)	19 (76%)	4 (16%)	2 (4%)

### 30-Day Post-Delivery Survival Rate by TTTS Stage

n = 598 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.**

[memorialhermann.org/fetal](http://memorialhermann.org/fetal)