Intestine Transplant Registry Report

Intestine Transplant Association
A section of the Transplantation Society

Washington, DC September 15 – 18, 2011
## Overall Clinical Experience

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Number of Transplants:</strong></td>
<td>2611</td>
</tr>
<tr>
<td>Centre Count</td>
<td>79</td>
</tr>
<tr>
<td><strong>Active Centres</strong></td>
<td>35</td>
</tr>
<tr>
<td>SB Alone</td>
<td>1148 (43.9%)</td>
</tr>
<tr>
<td>SB+Liver</td>
<td>845 (32.4%)</td>
</tr>
<tr>
<td>Multivisceral</td>
<td>619 (23.7%)</td>
</tr>
<tr>
<td><strong>Current Survivors</strong></td>
<td>1341</td>
</tr>
</tbody>
</table>
Intestinal Transplants Performed

Children

Adults

*Preliminary 2011
Transplant Activity Worldwide

Overall Transplants Performed

- North America
- Europe
- Asia
- South America

Years:
- '96-'00
- '01-'05
- '06-'10

ITA Registry Report 2011 Sept 16, 2011 v1
Case Volume in 78 Centres
(n=2611)

Transplants Performed per Centre

Each center is represented by one column showing its total case volume
Pre-Tx Status Over Time

Children

'85-'95  '96-'00  '01-'06  '06-'11

Adults

'85-'95  '96-'00  '01-'06  '06-'11

Unknown  Home  Hospital  ICU
Median LOS Over Time

Hospitalization (Days)

Year

0 20 40 60 80 100 120 140 160

Patient Survival by Era

Children

Adults

Survival %

Months

n=1351

n=1012

Survival %

Months

1: 1985-1989

2: 1990-1994

3: 1995-1999

4: 2000-2005

5: 2006-2011
Graft Survival by Era

Children

Adults

Survival %

Months

n=1351

n=1021

Survival %

Months

1: 1985-1989
2: 1990-1994
3: 1995-1999
4: 2000-2005
5: 2006-2011
Causes for Transplantation in Current Era (Children)

- Short Gut: 63%
- Gastrochisis: 25%
- N. Enterocolitis: 15%
- Volvulus: 13%
- Atresia: 8%
- Crohn's: 0%
- Ischemia: 1%
- Trauma: 1%
- Mucosal Defects: 10%
- Motility: 19%
- Re-transplant: 8%
- Tumor: 0%
Causes for Transplantation in Current Era (Adults)

- Short Gut: 65%
- Ischemia: 24%
- Crohn's: 13%
- Volvulus: 11%
- N. Enterocolitis: 2%
- Trauma: 6%
- Gastrochisis: 7%
- Atresia: 2%
- Re-transplant: 10%
- Motility: 15%
- Tumor: 8%
- Mucosal Defects: 2%
- Short Gut: 65%
Patient Survival by Graft Type (2006-2011)

Children

Survival %

Months

Adults

Survival %

Months

n=531

n=624

Survival %

MVT Full MVT modified SBliv SBt
Conditional* Graft Survival by Era

* This analysis starts after 1 yr of graft survival.
Multiple Variable Regression Analysis: Preliminary Results

<table>
<thead>
<tr>
<th>End-point</th>
<th>Predictor</th>
<th>HR*</th>
<th>P value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graft Survival 2006-11</td>
<td>Age &lt; 1 yr</td>
<td>1.23</td>
<td>0.04</td>
</tr>
<tr>
<td></td>
<td>Top 40% program case volume</td>
<td>0.66</td>
<td>0.02</td>
</tr>
<tr>
<td></td>
<td>Home</td>
<td>0.68</td>
<td>0</td>
</tr>
<tr>
<td>Conditional graft survival (all eras)</td>
<td>+ Liver component</td>
<td>0.68</td>
<td>0</td>
</tr>
</tbody>
</table>

* Lower ratio = improved survival
Conditional Long Term Survival by Transplant Type

n=1398