

## Fetal Islet Grafts

According to the data reported in the literature or communicated to the scientific community, fetal islet tissue has been transplanted to approximately 2,000 diabetic recipients (see Newsletter No. 1). In this Newsletter, results on the 177 grafts only, which have been reported to the Registry are presented. These reports are very much appreciated since they facilitate to start with the evaluation of the potential impact of fetal islet tissue transplantation.

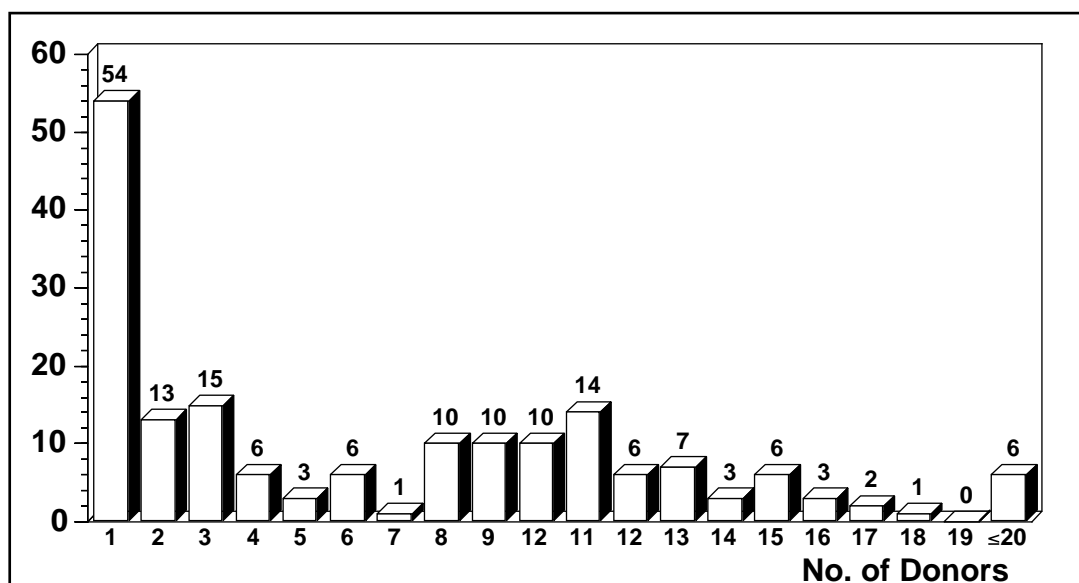
The first two figures are a breakdown of 177 fetal islet grafts according to the number of fetal donor pancreata and according to the recipient category, respectively. The last two pairs of figures compare the highest basal C-peptide levels and the lowest insulin requirements within the first year following fetal and adult islet tissue transplantation.

Similar to the exclusion criteria of the 1990-92 period, only cases holding pre- as well as posttransplant data were considered, resulting in only 66 fetal cases with pre- and posttransplant C-peptide data. It is interesting that a reduction of insulin requirement appeared in both adult and fetal islet transplant recipients, although posttransplant basal C-peptide levels  $> 1$  ng/ml were frequently reported in the adult islet transplant group but not in a single case in the fetal islet transplant group. In the three fetal islet transplants, which were reported to be insulin independent, no pretransplant C-peptide levels were given and the basal C-peptide levels within one year were in the range of 0.6 and 0.9 ng/ml.

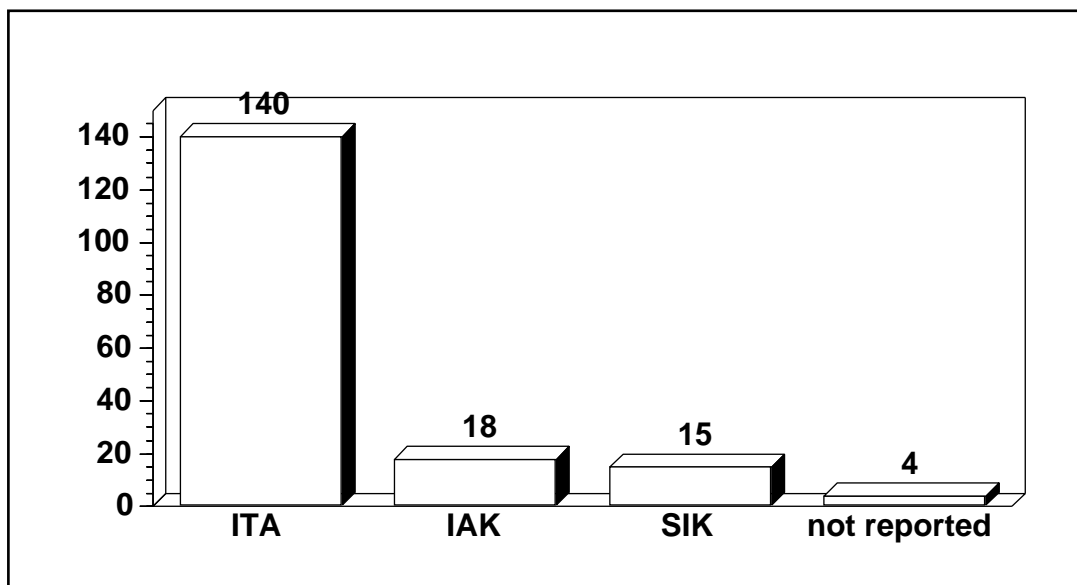
### Summary of Fetal Islet Grafts Reported to the Registry according to Institution and Year through Dec 31, 1992

INSTITUTION	YEAR OF TX	CASES
• Genova	79 - 80	13
• Shanghai	81 - 88	75
• Stockholm	82 - 84	3
• Szeged	82 - 92	25
• Melbourne	83 - 86	8
• Sydney	83 - 86	5
• Albany	85	1
• Dallas	85	6
• Denver	85 - 87	16
• Moscow	88 - 91	25
<b>TOTAL NO. OF CASES:</b>		<b>177</b>
<b>TOTAL NO. OF INSTITUTIONS:</b>		<b>25</b>

### Reported Fetal Islet Transplants according to *No. of Donors (1979 - 91)*



## Reported Fetal Islet Transplants according to Recipient Category (1979 - 91)



## Islet Transplant Success in Terms of Lowest Daily Insulin Requirement and Highest Basal C-Peptide within one Year Posttransplant

