FATE OF OUR PATIENTS UNDERGONE A KIDNEY TRANSPLANTATION 1976-2015

INTRODUCTION

Our nephrology centre commenced its activities (clinical and outpatient nephrology) in 1976. The chronic dialysis programme was initiated in 1978 (with in-centre intermittent peritoneal dialysis), thus our first two patients eligible for kidney transplantation were not yet dialysed in our institution. Our centre offers haemodialysis (HD) treatment since 1980, at that time we managed HD-treatment for nearly 3 counties (approximately 1 million inhabitants), since 1989 our institution has been responsible for dialysis treatment in county Vas only, with a population of 251,000.

PATIENTS

• During the last 4 decades (between 1976 and 2015) 203 of our patients underwent a kidney transplantation:
  • 95 patients living full and active lives with transplanted kidneys,
  • 8 patients returned to dialysis after kidney transplant failure, thus the proportion of patients alive exceeds 50%.

The purpose of this investigation was to gather data of transplant recipients from the last 40 years, since in Hungary, post-transplantation care of patients is done by public Transplantation Clinics.

RESULTS

• 3 transplantations were technically unsuccessful - these cases were excluded.
  • 103 patients were living donor kidney transplant recipients, 103 patients underwent cadaver -donor transplantation surgery.
  • 7 patients underwent pre-emptive kidney transplantation.
  • 30 patients had combined kidney (nt pancreas) transplantation.
  • Renal transplantations were performed between 1976-1985, sixty between 1986-1995, seventy-five between 1996-2005, thirty between 2006-2015, eighty-eight were carried out until 2015.
  • In the first 20 years, 63 transplantations (in 61 patients), in the second 20-year period 163 transplants (in 142 patients) were performed.
  • Distribution of pre-transplant patients according to dialysis modality:
    - haemodialysis: 46 (45%),
    - peritoneal dialysis: 33 (32%),
    - other dialysis: 1 (1%).
  • The average age of our patients at time of transplantation was 47.3±14.0 (16.5-75.0) years.
  • The average age of our transplant-patients between 1996 and 2015 was 49.8±14.1 years, i.e. it increased by 10 years on average.
  • Data of post-transplant patients:
    - 30 patients recovered fully (90.7%), 6 patients died (646.6%), 6 patients returned to dialysis (6.6%).
    - 93 patients who received kidney transplant in the first 20-year period are still alive (Y with renal transplantation, 1 on dialysis).

  • Both organs of 4 of our combined (kidney ft pancreas) transplant patients are functioning satisfactorily.
  • Proportion of living donor transplants was very low (10/232=4.3%).

11. Fate of transplanted patients

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of patients enrolled</th>
<th>Number of patients alive</th>
<th>Number of patients deceased</th>
<th>Number of patients lost to follow-up</th>
</tr>
</thead>
<tbody>
<tr>
<td>1976-1985</td>
<td>9</td>
<td>64</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1986-1995</td>
<td>40</td>
<td>34</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>1996-2005</td>
<td>164</td>
<td>158</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>2006-2015</td>
<td>88</td>
<td>80</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>232</td>
<td>203</td>
<td>9</td>
<td>0</td>
</tr>
</tbody>
</table>

12. Development of the fate of transplanted patients n=203

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of patients enrolled</th>
<th>Number of patients alive</th>
<th>Number of patients deceased</th>
<th>Number of patients lost to follow-up</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006-2015</td>
<td>88</td>
<td>80</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>1996-2005</td>
<td>164</td>
<td>158</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>1986-1995</td>
<td>40</td>
<td>34</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>1976-1985</td>
<td>9</td>
<td>64</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>232</td>
<td>203</td>
<td>9</td>
<td>0</td>
</tr>
</tbody>
</table>

CONCLUSION

• 303 of our patients have undergone a total of 232 renal transplantation surgeries during the last 40 years.
• 105 patients living full and active lives with transplanted kidneys, 6 patients returned to dialysis after kidney transplant failure, thus the proportion of patients alive exceeds 50%.
• The majority of transplanted kidneys was from deceased (cadaveric) donors, the proportion of living donations was very low.
• 258 patients were in the chronic dialysis programme of our center at the end of 2015 (198 HD, 50 PD). The prevalence of dialysed patients was 1018 per one million inhabitants (pmp).
• 95 of our patients (7.8 pmp) living with a transplanted kidney (functioning graft), consequently the prevalence of all our patients on RRT was 1306 pmp.