CURRENT TREND IN WEST OF IRELAND FOR INITIATING DIALYSIS IN CHRONIC RENAL FAILURE PATIENTS

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Disclosure

Speaker name:
Mr. Mohammed Elkassaby, MD, MRCSi

I do not have any potential conflict of interest
Introduction

- Hemodialysis (HD) is most common worldwide (90-94%)\(^1\)
- Peritoneal dialysis (PD) is not supported enough.
- PD is more convenient; with better QOL
- Not for sweet people with weak hearts!!!

Selection

• Many factors ??
• Predialysis education may quadruple patient selection of peritoneal dialysis (PD)\textsuperscript{1}.
• (CHOICE) study showed that Patients selected for PD may have fewer comorbidities compared with those for hemodialysis (HD)\textsuperscript{2}.

SURVIVAL BY MODALITY

• RCTs failed!!
• Observational studies reported first-year mortality rate for PD patients is 6% vs 12.5% for HD\textsuperscript{1}
• Survival benefit may disappear after few years.

Where are we now!!

- Numbers are increasing! (2600 ptn, 16% increase)
- PD is very low (7.6%)
- 8,000,000 e last year.
- Severe deficiency in staff and patient education about PD

• www.hse.ie
Incident adult ESKD patients (n)

405 patients

- 81% HD
- 14% PD
- 5% TX

88 p.m.p.
Dialysis Patients 31/12/13
(total patients under governance of Units in 4 HSE Areas)

- **West**: 187 (cCHD) + 97 (sHD) + 118 (sHDC) + 2 (oHD) + 35 (PD) + 3 (HHD)
- **South**: 233 (cCHD) + 41 (sHD) + 37 (sHDC) + 1 (oHD) + 50 (PD) + 18 (HHD)
- **DML**: 278 (cCHD) + 133 (sHD) + 58 (sHDC) + 3 (oHD) + 3 (HHD)
- **DNE**: 312 (cCHD) + 97 (sHD) + 128 (sHDC) + 61 (oHD) + 20 (HHD)
Our work

• Galway University Hospital
• Retrospective Jan 2012 to Dec 2016
• Initiation with AVF vs Laparoscopic PD insertion
• Patency, complication rate and survival
Results

• 60 PD and, 191 AVF and 165 cath. (14.4 vs 46 vs 39.6 %, p= 0.002)

• Mean ages were 52, 59 and 61 y (p=0.03)
## Demographics

<table>
<thead>
<tr>
<th></th>
<th>PD (n=60)</th>
<th>AVF (n=191)</th>
<th>P value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>52</td>
<td>59</td>
<td>0.017</td>
</tr>
<tr>
<td>Gender (M:F)</td>
<td>0.45</td>
<td>0.42</td>
<td>0.263</td>
</tr>
<tr>
<td>DM</td>
<td>3.3%</td>
<td>5.2%</td>
<td>0.034</td>
</tr>
<tr>
<td>HTN</td>
<td>11.6%</td>
<td>12.1%</td>
<td>0.029</td>
</tr>
<tr>
<td>CHF</td>
<td>1.6%</td>
<td>4.7</td>
<td>0.011</td>
</tr>
<tr>
<td>COPD</td>
<td>3.3%</td>
<td>3.8%</td>
<td>0.397</td>
</tr>
</tbody>
</table>
Secondary end points

- 5 years patency rates were 23.3% and 71.1% for PD and AVF respectively (p= 0.0001).
- Re-intervention rates were 10 vs 22.8 % (p=0.044)
- Survival was 90% and 83.3% for PD and AVF (p= 0.079)
Trends in WI

<table>
<thead>
<tr>
<th>Year</th>
<th>PD</th>
<th>HD</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>7</td>
<td>93</td>
</tr>
<tr>
<td>2013</td>
<td>8.7</td>
<td>91.3</td>
</tr>
<tr>
<td>2014</td>
<td>6.4</td>
<td>93.6</td>
</tr>
<tr>
<td>2015</td>
<td>11</td>
<td>89</td>
</tr>
<tr>
<td>2016</td>
<td>14</td>
<td>86</td>
</tr>
</tbody>
</table>
Conclusion

• Aim towards Initiation of RRT on PD
• PD required less re-interventions.
• Survival benefit with PD, weathers with time.
• PD patients doubled in West of Ireland in last 5 years.
• PD is still under utilized in Ireland
• More effort towards patients and staff education
THANKS
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