AORTIC VALVE REPLACEMENT WITH THE EDWARDS INTUITY® VALVE: SHORT AND MID-TERM CLINICAL AND ECHOCARDIOGRAPHIC RESULTS

Dr. Lorena Montes, Dr. Camilo Rodríguez, Dr. Javier Maldonado.
Cirugía Cardiovascular. Clínica Universitaria Colombia - Fundación Santa Fe de Bogotá.
INTRODUCTION AND METHODS

• Patients are older and sicker.
• Sutureless valves offer advantages:
  • Rapid deployment: CPB – Cross clamp times <<
  • Minimally invasive
  • Cost < TAVI
• Retrospective analysis: AVR Intuity® Elite valve system September 2015 - June 2017.
• Heart team considered for TAVR & AVR.
• Follow-Up: 3-6-9-12-24 months: Echo + clinical findings
RESULTS: Patients characteristics, procedural outcomes, early clinical outcomes

**Early Outcome** | **n = 27**
---|---
Mortality | 2 (7.4%)
Reoperation (bleeding/tamp) | 5 (18.5%)
New pacemaker | 0
Cerebrovascular accident | 1 (3.7%)
Sternal Wound infection | 1 (3.7%)
Endocarditis | 0
Myocardial infarction | 0
Respiratory failure | 0
Paravalvular Leak | 0 (none) 1+ (trace) 2+ (mild) ≥3+ (moderate/severe)

NYHA

<table>
<thead>
<tr>
<th>NYHA Pre</th>
<th>NYHA POP</th>
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<tbody>
<tr>
<td>I</td>
<td>3 (11.1%)</td>
</tr>
<tr>
<td>II</td>
<td>9 (33.3%)</td>
</tr>
<tr>
<td>III</td>
<td>10 (37%)</td>
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<tr>
<td>IV</td>
<td>1 (3.7%) 1 (3.7%)</td>
</tr>
</tbody>
</table>

STS/EACTS Latin America Cardiovascular Surgery Conference 2017
RESULTS: Hemodynamics

Pic gradient

Mean gradient

Max Velocity

19 Prosthesis

Gradiente medio

Gradiente Pico

PreQx POP 3 meses 6 meses 9 meses 12 meses 18 meses

 Vel Pico Pre Vel Pico IntraOP Vel Pico POP Vel Pico 12m
RESULTS: Survival

Mean Follow-Up Time: 8.88 months

Cumulative Survival

Follow-Up (mons)
CONCLUSIONS

• The Intuity® Elite aortic valve had
  • An easy and safe implantation
  • Reduced crossclamp and CPB times compared to the conventional valves
  • Provides an excellent mid-term hemodynamic performance.
  • Total hospital cost of 1/3 of TAVR

• It is now an excellent choice in our team for some risk profile patients that otherwise were considered for TAVR.
Thank You