Socio-Economic Impact of the Project

A summary of current available solutions with associated costs and potential advantages of StimulAIS system over all of them is provided in the following table:

<table>
<thead>
<tr>
<th>Current treatments</th>
<th>Costs (estimated values)</th>
<th>Limitations</th>
<th>StimulAIS expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Observation</td>
<td>N/D</td>
<td>A high number of curves progress and require bracing and/or invasive surgery</td>
<td>Restorative, avoids invasive fusion surgery and bracing</td>
</tr>
<tr>
<td>Exercise and physiotherapy</td>
<td>N/D</td>
<td>No conclusive evidences of its effectiveness</td>
<td>Restorative, avoids invasive fusion surgery and bracing. Focused treatment and auto-regulation of stimulus</td>
</tr>
</tbody>
</table>
| Bracing            | Cost of $53 million in the USA per year plus $51 million for the associated revision appointments to the physician making an estimated total cost: $104 million/year | - No permanent correction of curvature  
- Functional discomfort  
- Leads to psychosocial and body image concerns  
- Restriction of movement  
- Ineffective in overweight patient (and leads to increase progression)  
- Ineffective to most cervithoracic curves and curves greater than 40 degrees  
- Final surgical rate similar to non-braced |  
- Active correction of curvature. Not only stop progression, but also potentially correct the curvature  
- No discomfort  
- Low obtuseness (implanted subcutaneously)  
- No restriction movement  
- Effectiveness not dependant on patient weight  
- Applicable on most AIS curve locations with less exclusion criteria than bracing  
- Effective, avoids surgery |
| Surgical fusion treatment | Cost of $31,832.50 per surgery/patient with a total of total cost of $514 million a year (USA) | - Invasive  
- Spinal fusion  
- High risk of complications (infection, hardware breakage, pseudoarthrosis, nerve damage and sexual dysfunction) | - Minimally invasive technique  
- Motion preserving  
- Low risk complications |