Are Stem Cell Treatments Safe?  
This Study Sheds Light

**Study Facts**
- Study机型: stem cell treatments
- Methods: registry data
- Findings: safety profile

**Study Methods**
- Subjects: patients treated with MSC procedures
- Follow-up: 3 months
- SAE rates: 4%
- Any AE & SAE reported: 1.0 - 1.5%

**Study Subjects**

<table>
<thead>
<tr>
<th>Group</th>
<th>SD</th>
<th>AD</th>
<th>CE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient</td>
<td>3,012</td>
<td>2,372</td>
<td>577</td>
</tr>
<tr>
<td>Age (yrs)</td>
<td>60.8%</td>
<td>60.8%</td>
<td>60.8%</td>
</tr>
<tr>
<td>Gender</td>
<td>58.6% female</td>
<td>57% female</td>
<td>52.6% female</td>
</tr>
<tr>
<td>Median age</td>
<td>60.8%</td>
<td>60.8%</td>
<td>60.8%</td>
</tr>
</tbody>
</table>

**Study Results**
- 325 Adverse Events
- Treatment Groups: SD, AD, CE
- SAE rates: 4%
- Any AE & SAE reported: 1.0 - 1.5%

**Study Finding**
- No increased risk of cancer associated withMSC injections or treatment with culture-expandedMSCs.
- Results of the study add to the existing body of evidence showing the safety of orthopedic conditions in prior studies.

**Study Conclusion**
- MSC-based therapies for orthopedic conditions are safe.

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According to the National Cancer Institute, the annual cancer rate per 2,372 individuals was 0.78% (0.44% in the male population and 0.14% in the female population). The incidence of cancer in the U.S. population in 2011 was 6%.

The results of the study add to the growing body of evidence showing the safety of stem cell treatments for orthopedic conditions.