

Are Stem Cell Treatments Safe? This Study Sheds Light

Purpose of Study: To determine if stem cell injections are safe when used for orthopedic degenerative conditions or injuries.

Study Facts



Resulted in the world's largest stem cell safety paper



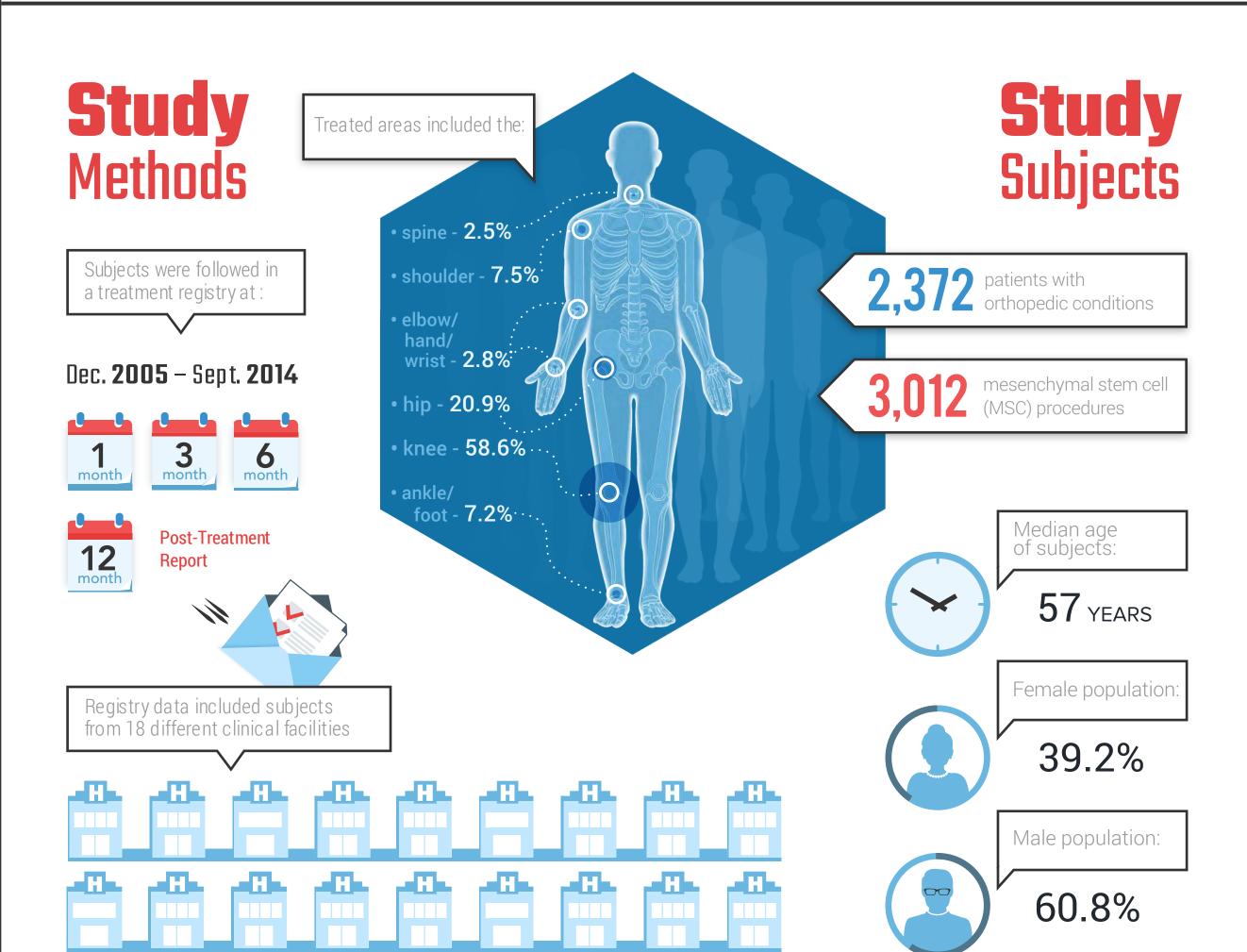
The most comprehensive report of its kind



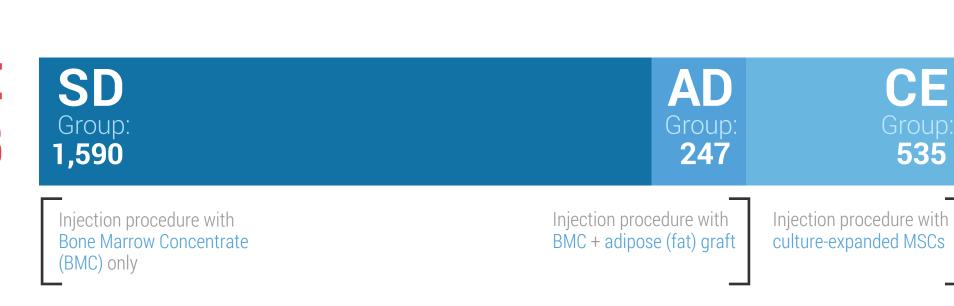
Followed the largest population for the longest time



Analyzed the relative safety of several different treatment approaches

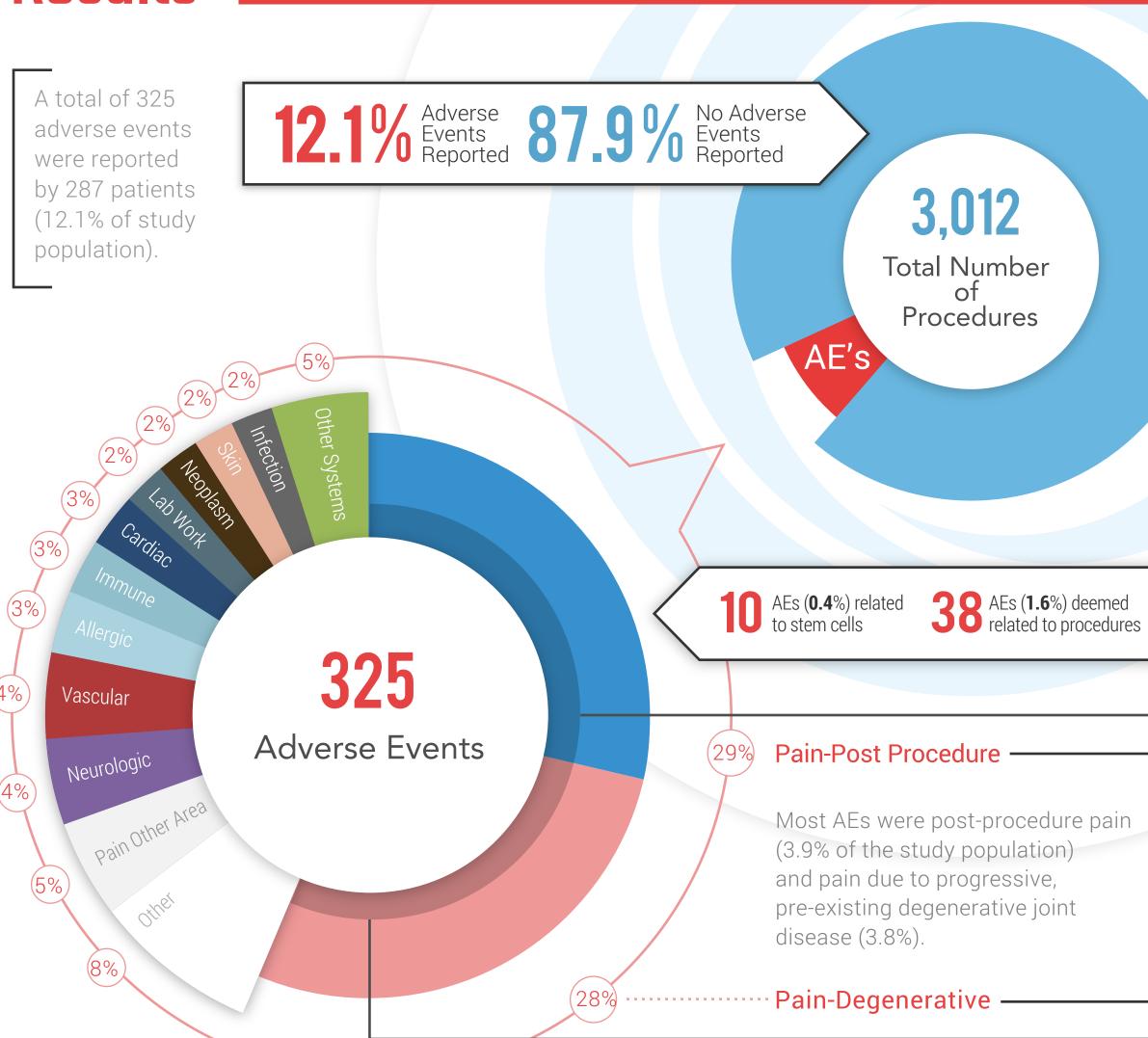


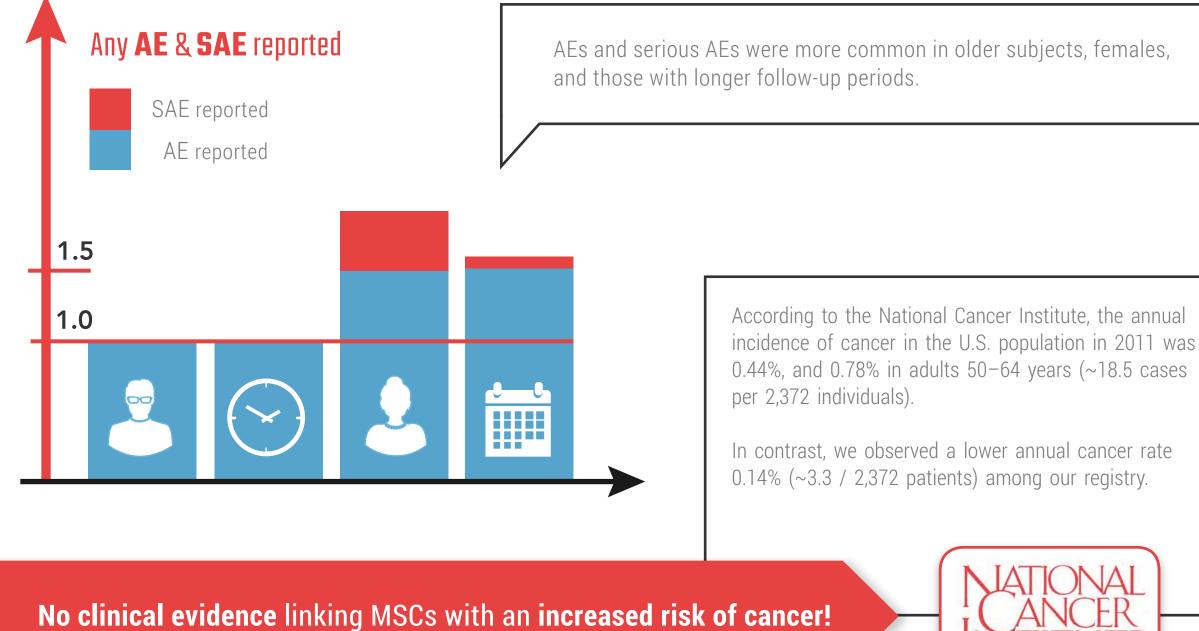






Low rates of reported adverse events (AEs) among patients treated with MSC procedures, and substantially lower rates of serious or treatment-related AEs.





In contrast, we observed a lower annual cancer rate 0.14% (~3.3 / 2,372 patients) among our registry.



2011

2,372 PATIENTS HAVE REPORTED CANCER

These findings are consistent with previous reports indicating no increased risk of tumor



Consistent with the safety profile of BMC and MSC injections for the treatment of orthopedic conditions in prior studies.

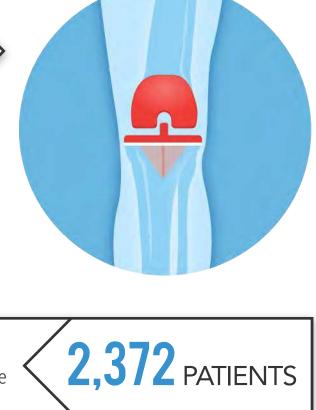
formation following BMC injections or treatment with culture-expanded MSCs.

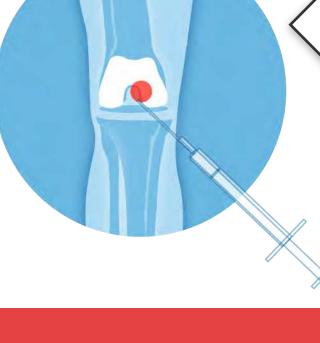


SAE rates were 6% at 3 months follow-up

Serious AE (SAE) rates were substantially lower than those reported for more invasive

orthopaedic surgical procedures (e.g., the SAE rate for total knee arthroplasty among





260 patients at three months follow-up was 6 % [Kirschner]).

possibly related SAEs (0.55 %) of these SAEs (0.17 %) definitely related to the procedure in the present study

13 possibly related SAEs in the present study among 2,372 patients, approximately 0.55 %, and only four of these SAEs (0.17 %) were deemed definitely related to the

procedure.

Study of MSC-based therapies for orthopaedic conditions. Conclusion

The results of the study add to the existing body of evidence showing the safety

http://link.springer.com/article/10.1007/s00264-016-3162-y

The full study can be read at this web address:

