Accepted Manuscript

Title: Bone morphogenetic protein use in spine surgery in the united states: how have we responded to the warnings?

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PII: S1529-9430(17)30187-0

DOI: http://dx.doi.org/doi: 10.1016/j.spinee.2017.04.030

Reference: SPINEE 57307

To appear in: The Spine Journal

Received date: 25-10-2016 Revised date: 18-1-2017 Accepted date: 24-4-2017



Please cite this article as: Javier Z Guzman, Robert K Merrill, Jun S Kim, Samuel C Overley, James E Dowdell, Sulaiman Somani, Andrew C Hecht, Samuel K Cho, Sheeraz A Qureshi, Bone morphogenetic protein use in spine surgery in the united states: how have we responded to the warnings?, *The Spine Journal* (2017), http://dx.doi.org/doi: 10.1016/j.spinee.2017.04.030.

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ACCEPTED MANUSCRIPT

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3	Bone Morphogenetic Protein Use in Spine Surgery in
4	The United States: How Have We Responded to The
5	Warnings?
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23 24	Acknowledgements: The authors would like to acknowledge Janay Mckie for inspiring this work.
25	The dutilors would like to deknowledge julidy Pickle for hispiring this work.
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26	Abstract
27	Background Context
28	Recombinant human bone morphogenetic protein-2 (rhBMP-2) has been widely
29	adopted as a fusion adjunct in spine surgery since its approval in 2002. A number of
30	concerns regarding adverse effects and potentially devastating complications of
31	rhBMP-2 use led to an FDA advisory issued in 2008 cautioning its use, and a
32	separate warning about its potential complications was published by <i>The Spine</i>
33	Journal in 2011.
34	Purpose

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