

1 **Name of journal:** World Journal of Orthopedics

2 **ESPS Manuscript NO:** 17023

3 **Columns:** Meta-Analysis

4

5 **Predictors of spine deformity progression in adolescent idiopathic scoliosis: A**

6 **systematic review with meta-analysis**

7

8 **Andriy Noshchenko, Lilian Hoffecker, Evalina L Burger, Christopher MJ Cain, Vikas V**

9 **Patel, Andrew P Bradford**

10

11 **Abstract**

12 **AIM:** To evaluate published data on the predictors of progressive adolescent idiopathic

13 **scoliosis (AIS)** in order to evaluate their efficacy and level of evidence.

14

15 **METHODS:** Selection criteria: (1) study design: randomized controlled clinical trials,

16 prospective cohort studies and case series, retrospective comparative and none

17 comparative studies; (2) participants: adolescents with AIS aged from 10 to 20 years; (3)

18 treatment: observation, bracing, and other. Search method: Ovid MEDLINE, Embase, the

19 Cochrane Library, PubMed and patent data bases. All years through August 2014 were

20 included. Data were collected that showed an association between the studied

21 characteristics and the progression of AIS or the severity of the spine deformity. Odds

22 ratio (OR), sensitivity, specificity, positive and negative predictive values were also

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