

The influence of scoliosis towards secondary osteoarthritis of the knee in athletes

Basuki Supartono, author

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Abstrak

Objectives: Osteoarthritis of the knee can be caused by scoliosis. The Purpose of this study is to find out the influence of scoliosis caused secondary osteoarthritis of the knee in athlete, based on Cobb's degree, Scoliosis curve. Materials and Method: This research uses an analytic cross-sectional design. The total sample of 92 athletes with scoliosis taken by simple random sampling technique. The data were analyzed with Chi-square test, Fisher and prevalence ratio. Result: The result shows that there were influences on the incidence of scoliosis towards secondary osteoarthritis of the knee in athletes at the national sports hospital. Based on the criteria in the Cobb's angle had the results ($p=0.022$ ($p<0.05$)), moderate Cobb's angle degree were 7.5 times more at risk of causing secondary osteoarthritis on the knee than a mild degree. The other hand shape of the curve scoliosis had results ($p=0.038$ ($p<0.05$)), the shape of the S curve scoliosis 3.2 Times more at risk of causing secondary osteoarthritis on the knee than the curve C. Conclusion: It had to be concluded that there was influence between Cobb's degree scoliosis and shape curve towards incidence of secondary osteoarthritis on the knee