

**PREVALENCE OF ADOLESCENT IDIOPATHIC SCOLIOSIS IN
ELEMENTARY SCHOOL CHILDREN AGED 9-12 YEARS IN KECAMATAN
PASAR KLIWON SURAKARTA**

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ABSTRACT

Background: AIS or adolescent idiopathic scoliosis is an abnormal curvature of the spine with a curvature (cobb angle) of the spine $>10^{\circ}$ coronal plane and appears in late childhood or adolescence. There are several risk factors that affect the occurrence of scoliosis such as age, gender, incorrect sitting position, and some types of bags such as sling bags or backpacks. **Research Methods:** Quantitative research, prevalence study research type. Cross sectional analytic research design with an observational approach that is about the correlation of the independent variable to the dependent variable in a certain period of time. **Results:** The results of data analysis using the chi-square test showed a correlation between age and AIS ($p=0.048$), gender to AIS ($p=0.013$) and bag type to AIS ($p=0.012$). AIS that occurred at the age of 9-10 years was 23.6% and the age of 11-12 years was 32.7%, in girls by 15.5% and boys by 14%, in children who used sling bags by 34.7% and backpacks by 23.2%. **Conclusion:** Children aged 9-12 years who were indicated with AIS amounted to 28.3%. The results showed a correlation between risk factors such as age, gender, and type of bag to the incidence of AIS in elementary school children aged 9-12 years in Kecamatan Pasar Kliwon.

Keyword: Children, Prevalance, Scoliosis.