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Title: Relationship between snoring with sleep behavioral and movement disturbance (SBMD) in children

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Body: Background: sleep disturbance is one of the most important subjects in pediatric medicine which its prevalence is 5% in society and have many important effects on child social function and quality of life. Sleep disturbance is seen in different kind of sign and symptom such as night terror, leg movement, walking and go to bed lately. Snoring prevalence is 12% in children that is one of the important reasons of sleep disturbance. Methods: We have chosen 100 children with snoring as study group and 100 healthy children as control group. Their parents fill the questions about snoring and 22 item of SBMD like sleep walking, sleep talking, night terror. Pearson correlation coefficient was used to measure the strength of association between continuous variables. For analysis of qualitative parameters, we use from chi-square and if it was required, checked by fisher's exact test. Result: The mean age of children was 6/8 years, mean height 116 cm, 41% were overweight or fatty and 52% were male. There were significant correlation among SBMD in case and control (8.54 vs 5.64 item, $p < 0.001$), snoring and adenotonsillar hypertrophy ($p < 0.001$), apnea and SBMD in case group ($p < 0.001$), but no relationship among snoring and sex ($p < 0.001$), snoring and age ($p < 0.001$) and severity of snoring with SBMD in case group. Conclusion: This study have showed the importance of sleep medicine in children we can prevent children from many sleep disturbance with on time diagnosis of snoring. It is important that we educated sleep subject to parents for helping to achieve better sleep in children.