

## Hubungan antara tingkat keparahan gangguan sendi temporomandibula dan perbedaan karakteristik bunyi sendi temporomandibula (suatu analisis menggunakan perangkat lunak audio editor)

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### Abstrak

Joint sound is one of the signs of the temporomandibular joint disorder dan its characteristics are thought to be able to establish the gravity of the disorder. The aim of this study was to analyze the relation between the sound characteristics - its pitch and intensity - and the gravity of the temporomandibular joint disorder. The subjects of this research were 54 students who fulfilled the criteria included in the basic questionnaire which was distributed among all the 4th and 6th semester dental students of Faculty of Dentistry University of Indonesia. The gravity of the disorder was obtained from the subjective as well as the objective examination, using Helkimo index. 108 joint sound samples of the left and right joint were recorded during opening and closing movement of the mandible, using a modified stethoscope which was connected to a personal computer. The analysis of the joint sound characteristics was done with audio analysis software Cool Edit 2000. A one way anova test showed a significant relation between the gravity of temporomandibular joint disorder and the intensity of the joint sound ( $p < 0.05$ ). The gravity of the disorder was equivalent to the intensity of the sound, however there was no significant relation between the joint sound pitch and the gravity of the temporomandibular joint disorder. It was concluded that the joint sound intensity was worthy of further study as a sign of diagnostic value.