



Effects of noise on human health



Tinnitus



Hearing impairment



Sleep disturbance

If $> 60\text{dB}$



Noise $+10\text{dB}$

Diabetes $+11\sim 14\%$

Noise $+5\text{dB}$

Waistline $+1.5\text{cm}$



Pupils dilation

Thyroid hormones \uparrow

Heart rate \uparrow

Epinephrine \uparrow BP \uparrow

Vasoconstriction \uparrow

AMI \uparrow stroke \uparrow

Gastrointestinal motility \downarrow

Triglycerides \uparrow

Metabolic syndrome \uparrow