

## Brief Communication

# The siren noise of ambulance is killing me!

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**ABSTRACT**

Noise pollution is present all places and affects health negatively. It feels more like that to the patients. When the patient in severe condition is being taken to the emergency room, we have to overcome the siren noise of ambulance. Patients are also more terrified by the sound of sirens. Instead of siren noise, why not use the sound of Buk (Korean drum) for patient, citizens, and social elements including animals and plants?

**Keywords** siren noise of ambulance, sound of Buk (Korean drum)

A siren is a loud noise maker. Noise is mostly known as unpleasant sound. Shapiro and Berland reported that the noise level in an operating room of hospital should not exceed 55 to 86 dB (Shapiro RA, Berland T, 1972). However, the noise intensity is checked between 65 and 120 dB. This intensity affects to patients unfavorably (Way TJ, et al., 2013). For us moderns, high technique is used to generate imaginary worlds in smart phone etc, to express drastic emotions with music. The number of music channels offered varies with each service provider. Music is important at every stage of a modern. Its varied impact has led to the advantage of music therapy. Music therapy was used in the sixth century BC (Moris DN and Linos D., 2013). Music allows patients to avoid into their separate world where they perceive without anxiety. Music concentrates the patient's feeling on the music, which presents warm and easy (Nilsson U, 2008). Recently noisy sounds are ingredients of our daily lives (Brunges MJ and Avigne G, 2003).

Anaphylaxis is a hypersensitivity reaction and causes hypotension. It can die a person if do not receive treatment quickly. Our research team reported the Buk music reduces anaphylaxis in animal model (Kim HY, et al., 2015). This research was reported by the Korean news channel (<https://kakao.tv.daum.net/v/72077837>). Anaphylaxis can cause death therefore requires immediate treatment. Emergent ambulance transportation is associated with increased risk of death for patients. Moreover, loud noise pollution can threaten their survival. The uneasy patient can feel killing me.

In this study, we recommend the sound of Buk (Korean drum) instead of the nauseous siren sound in emergency ambulance. Buk is made of soft horsehooks and wood which produce a comfort sound. We suggest the sound of a traditional Buk has been transmitted to help to reduce anxiety. The sound may be cause to feel happier, potentially because it sounds like a beat of the heart (Kim HY, et al., 2015).

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**CONFLICT OF INTEREST**

None

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