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Abstracttitel: Influence of Aging on Increase in Blood Pressure before Anesthesia Induction

Purpose: Blood pressure before anesthesia induction in the operation room is often higher than in the medical ward. Generally speaking, blood pressure increases progressively with age. This study investigates the influence of aging on blood pressure before anesthesia induction.

Methods: Data on patient characteristics was retrospectively collected using anesthesia charts. The systolic blood pressure (sBP) or diastolic blood pressure (dBP) of patients more than 20 years-old in the medical ward was compared with the sBP and dBP in the operation room before anesthesia induction. Patients requiring emergency operations and with arrhythmia were excluded from the data.

Results: The age of the 288 patients was 55 ± 17 years old. The sBP and dBP values in the operation room before anesthesia induction were 143 ± 29 mmHg and 79 ± 16 mmHg respectively. The increase in sBP and dBP in the operation room compared to the medical ward was 21 ± 26 mmHg and 9 ± 16 mmHg respectively. The correlation coefficients in a simple linear regression between age and difference in sBP, and between age and difference in dBP, were 0.296 and 0.108 respectively. The difference in sBP correlated significantly with age ($p = 0.003$), while the difference in dBP did not significantly correlate with age ($p = 0.067$).

Conclusion: The difference in sBP in the operation room compared to the medical ward before anesthesia induction increases with aging. This result suggests that aging is a significant factor relating to the increase in sBP before anesthesia induction. It is necessary to prepare antihypertensive agents for elderly patients before anesthesia induction.