

**PENGARUH PERUBAHAN SUHU RUANG OPERASI DAN RUANG PASCA
OPERASI TERHADAP SUHU TUBUH PASIEN GERIATRI DI INSTALASI
BEDAH SENTRAL RSUD BAYU ASIH KABUPATEN PURWAKARTA**

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ABSTRAK

Perubahan suhu tubuh akibat terpapar suhu ruang operasi dan pasca operasi merupakan kondisi yang dapat terjadi selama prosedur pembedahan. Apabila perubahan suhu tubuh ekstrem terjadi maka akan menimbulkan komplikasi pasca operasi. Tujuan penelitian ini adalah untuk mengetahui pengaruh perubahan suhu ruang operasi dan ruang pasca operasi terhadap suhu tubuh pasien geriatri di instalasi bedah sentral RSUD Bayu Asih Kabupaten Purwakarta. Penelitian ini menggunakan metode kuantitatif analitik dengan desain quasi-eksperimental. Teknik pengambilan sampel menggunakan *accidental sampling*, dengan jumlah sampel 31 responden pasien geriatri. Instrumen penelitian yang digunakan yaitu termometer infrared, termometer Higrometer HTC, lembar observasi dan rekam medis. Analisis data menggunakan uji *friedman* dan *wilcoxon*. Normalitas data menggunakan *shapiro wilk*. Dengan nomor etik penelitian 074/09.KEPK/UBK/V/2025. Hasil penelitian menunjukkan bahwa adanya penurunan suhu tubuh pasien geriatri secara bertahap selama prosedur operasi. Mean rank suhu tubuh tertinggi tercatat pada kondisi sebelum operasi sebesar 3,37, kemudian menurun menjadi 3,16 pada 15 menit, 2,05 pada 30 menit, dan 1,42 pada 45 menit. Pada fase pasca operasi, suhu tubuh pasien geriatri tetap relatif stabil. Pada pengukuran 15 menit dan 30 menit setelah operasi, suhu tubuh pasien tercatat sebagian besar sekitar 35,9°C. Pentingnya pengaturan suhu ruang operasi dan pasca operasi secara optimal guna menjaga kestabilan suhu tubuh pasien geriatri, sehingga dapat meningkatkan keamanan dan kualitas perawatan perioperasi serta mencegah komplikasi terkait hipotermi.

Kata kunci: Perubahan suhu geriatri, Suhu ruang operasi, Suhu ruang pasca operasi

**THE EFFECT OF CHANGES IN OPERATING ROOM AND POSTOPERATIVE
ROOM TEMPERATURE ON THE BODY TEMPERATURE OF GERIATRIC
PATIENTS IN THE CENTRAL SURGICAL INSTALLATION OF
RSUD BAYU ASIH PURWAKARTA**

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ABSTRACT

Changes in body temperature due to exposure to operating room and post-operative temperatures are conditions that can occur during surgical procedures. If extreme changes in body temperature occur, they can lead to post-operative complications. The purpose of this study was to determine the effect of changes in operating room and post-operative room temperatures on the body temperature of geriatric patients in the central surgery unit of Bayu Asih Regional General Hospital in Purwakarta Regency. This study employs a quantitative analytical method with a quasi-experimental design. The sampling technique used accidental sampling, with a sample size of 31 geriatric patients. The research instruments used were an infrared thermometer, an HTC hygrometer thermometer, an observation sheet, and medical records. Data analysis used the Friedman and Wilcoxon tests. Data normality was assessed using the Shapiro-Wilk test. The research ethics number is 074/09.KEPK/UBK/V/2025. The results showed a gradual decrease in body temperature during the surgical procedure. The highest mean rank of body temperature was recorded before surgery at 3.37, then decreased to 3.16 at 15 minutes, 2.05 at 30 minutes, and 1.42 at 45 minutes. In the post-operative phase, the body temperature of geriatric patients remained relatively stable. At 15 and 30 minutes post-operatively, the body temperature of patients was mostly around 35.9°C. The importance of optimally regulating the temperature of the operating room and post-operative environment to maintain the stability of geriatric patients' body temperature, thereby enhancing perioperative safety and care quality while preventing complications related to hypothermia.

Keywords: *Operating room temperature, Postoperative room temperature, Changes in geriatric body temperature*