

**EVALUASI SARANA DAN PRASARANA DI RUANG  
OPERASI DALAM UPAYA PENGENDALIAN INFEKSI  
DI RS PKU MUHAMMADIYAH GAMPING**

*EVALUATION OF FACILITIES AND INFRASTRUCTURE IN  
OPERATION ROOM IN INFECTION CONTROLLED AT PKU  
MUHAMMADIYAH GAMPING HOSPITAL*

**Waskitho Nugroho, Iswanta, Elsy Maria Rosa**

Program Studi Manajemen Rumah Sakit, Program Pascasarjana,  
Universitas Muhammadiyah Yogyakarta

**INTISARI**

**Latar Belakang:** RS PKU Muhammadiyah Gamping adalah rumah sakit tipe C yang memiliki instalasi ruang operasi di lantai 4. Ruang operasi di rumah sakit adalah suatu unit yang memiliki tingkat sterilitas tinggi yang dipengaruhi oleh sarana dan prasarana ruang operasi yang baik untuk menghindari terjadinya *Surgical Site Infection* selama prosedur operasi.

**Metode Penelitian:** Penelitian ini menggunakan metode kualitatif dengan deskripsi observasional dengan melakukan observasi langsung dan pengujian didalam instalasi ruang operasi yang kemudian dibandingkan dengan standar kementerian kesehatan, lalu dilakukan wawancara mendalam kepada pihak manajemen.

**Hasil dan Pembahasan:** Ruang operasi terletak di lantai 4 yang berada bersebelahan dengan ruang ICU (*Intensive Care Unit*). Hasil observasi instalasi ruang operasi menurut kategori keamanan, kesehatan, kemudahan dan kenyamanan memiliki hasil baik. Instalasi ruang operasi memiliki 4 unit ruang operasi yang terdiri atas dua ruang operasi besar, satu ruang operasi kecil dan satu ruang operasi khusus dengan *c-arm*.

Ukuran ruang operasi 1 = 6,3x6,3x3,4 meter, ukuran ruang operasi 2 = 7,2x6,3x3,4 meter, ukuran ruang operasi 3 = 7,2x6,3x3,4 meter, ukuran ruang operasi 4 = 7,2x7,2x3,4 meter. Pencahayaan didalam ruang operasi sebesar 348 lux dan cahaya lampu operasi sebesar 10.180 lux, tingkat kelembaban didalam ruang operasi 70%, suhu didalam ruang operasi 23,7<sup>0</sup>C, tingkat kebisingan didalam ruang operasi sebesar 52,4 dB, tekanan didalam ruang operasi sebesar 1013,3 mBar sama dengan tekanan udara didalam koridor ruang operasi yang berada disebelahnya sebesar 1013,3 mBar. Kecepatan angin hembusan dari *diffuser non aspirating* yang berada dilangit – langit sebesar 0 f/m. Hasil pengukuran sesaat bakteri kontaminasi di udara, dinding dan lantai memiliki hasil sesuai dengan standar. Air bersih masih sesuai standar, namun tempat pembuangan sampah medis dan non medis belum memenuhi standar.

**Kesimpulan:** Pada ruang operasi aspek sarana dan prasarana dalam pengendalian infeksi seperti tekanan udara, sistem ventilasi, kelembaban, tempat sampah medis dan jumlah pemakaian ruang operasi belum memenuhi standar sesuai dengan kementerian kesehatan.

**Kata Kunci:** Evaluasi sarana dan prasarana, Pengendalian infeksi ruang operasi.

## **ABSTRACT**

**Background:** *PKU Muhammadiyah Gamping Hospital is a type C who has operating room facilities on the 4<sup>th</sup> floor. Operating room is units with high degree of sterility are affected by good infrastructure to prevent surgical site infection (SSI) during surgical procedure.*

**Methods:** *This study used a qualitative method with observational description by direct observation and measurement in the operating room which is then compared with standar ministry of health and conducted indepth interviews with hospital management.*

**Results and Discussion:** *The operating room is located on the 4<sup>th</sup> floor which is located adjacent to the ICU (Intensve Care Unit). The results of the installation of operating room observation by categories of safety, health, convenience and comfort have good results. Installation of operating room has four operating room unit consisting of two large operating room, a small operating room, and an operating room specifically with c-arm. Width of operating room 1 = 6,3x6,3x3,4 meters, width of operating room 2 = 7,2x6,3x3,4 meters, width of operating room 3 = 7,2x6,3x3,4 meters, width of operating room 4 = 7,2x7,2x3,4 meters. The lightning in the operating room at 340 lux and lighting operation at 10.180 lux, the humidity level at 70%, the temperature at 23,7<sup>0</sup>C, the noise level at 52.4 dB, the air pressure inside operating room at 1013.3 mBar equal to the air pressure on the operating room corridor located next to amounted at 1013.3 mBar. Airflow on diffuser non-aspirating on the operating room 0 f/m. The measurement result contaminating bacteria in the air, walls and floors have the results according to the standard, water good standard, and waste disposal not according standard.*

**Conclusion:** *Facilities and infrastructure in the operasing room to control of surgical site infection such as air pressure, ventilation system, humidity, waste disposal and utility operation are not according to standard ministry of health.*

**Keywords:** *Evaluation of facilities and infrastructure of operating room, Operating room infection control.*