

Supplement

Determinant Factors of Limited Oxygen Supply at Marsudi Waluyo Hospital during the COVID-19 Pandemic

Faktor Determinan Keterbatasan Pemenuhan Persediaan Oksigen di Rumah Sakit Marsudi Waluyo Selama Pandemi Covid-19

Engelbertha Retno Suryaningati¹, Kristiwi Hanggriyani², Eriko Prawestingtyas³

¹*Master Program in Hospital Management Faculty of Medicine Universitas Brawijaya Malang*

²*Marsudi Waluyo Hospital Malang*

³*Department of Forensic Medicine and Medicolegal Faculty of Medicine Universitas Brawijaya Malang*

ABSTRACT

The demand for oxygen in hospitals has been increasing during the COVID-19 pandemic due to oxygen therapy required by most COVID-19 patients. Fulfillment of oxygen supply is related to logistics management. This study aimed to determine the factors affecting the limited oxygen supply at Marsudi Waluyo Hospital, Malang. This research was conducted with a qualitative descriptive method. Data collection was carried out by observing the process of ordering and replacing oxygen cylinders for central oxygen fulfillment at the Facility Maintenance Unit (FMU), reviewing oxygen usage and supply reports, and conducting Focus Group Discussion (FGD) to identify the root of the problem. The FGD respondents consisted of the Head of General Affairs and Administration, the Head of Finance, the Coordinator and Staff of the Facility Maintenance Unit, and the Head of the Inpatient Installation. The root of the problem was compiled using the 5 Whys method and grouped into Man, Material, Money, Method, Machine, Management, and Environment categories. The root of the problem identified was the limited number of human resources in the Facility Maintenance Unit, the procedure for procuring oxygen cylinders that did not include a case of oxygen demand surge, and no oxygen supply other than oxygen cylinders.

Keywords: *Facility maintenance, logistics management, oxygen (O₂)*

ABSTRAK

Kebutuhan oksigen (O₂) di rumah sakit meningkat selama pandemi Covid-19 karena sebagian besar pasien Covid-19 memerlukan terapi O₂. Pemenuhan persediaan O₂ berkaitan dengan manajemen logistik. Penelitian ini bertujuan untuk mengetahui faktor yang mempengaruhi keterbatasan pemenuhan persediaan O₂ di Rumah Sakit Marsudi Waluyo Malang. Penelitian ini dilakukan dengan metode deskriptif kualitatif. Pengumpulan data dilakukan dengan observasi untuk mengamati proses pemesanan dan penggantian tabung O₂ untuk pemenuhan oksigen sentral di Unit Pemeliharaan Sarana (UPS), telaah dokumen laporan pemakaian dan persediaan O₂, dan *Focus Group Discussion* (FGD) untuk mengidentifikasi akar masalah. Responden FGD terdiri dari Kepala Bidang Umum dan Administrasi, Kepala Bagian Keuangan, Koordinator dan staf Unit Pemeliharaan Sarana, dan Kepala Instalasi Rawat Inap. Akar masalah disusun dengan metode 5 whys dan dikelompokkan ke dalam kategori manusia, bahan baku, uang, metode kerja, mesin, manajemen, dan lingkungan. Akar masalah yang diidentifikasi adalah jumlah sumber daya manusia di Unit Pemeliharaan Sarana terbatas, prosedur pengadaan tabung O₂ masih belum mencantumkan proses jika terjadi lonjakan permintaan O₂, dan belum ada penyediaan O₂ dari sumber selain tabung O₂.

Kata Kunci: Manajemen logistik, oksigen (O₂), pemeliharaan sarana

Correspondence: Engelbertha Retno Suryaningati. Master Program in Hospital Management Faculty of Medicine Universitas Brawijaya Malang, Jl. Veteran Malang Tel. +628125242043 Email: engelbertha_rs@student.ub.ac.id

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