Evaluation of Safety and Cost of an Open-Design Oxygen Mask in a Large Community Hospital

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BACKGROUND: In our large community hospital, we observed that the flow rates of oxygen masks we used were sometimes inadequately low. We hoped to improve patient safety and reduce cost by implementing an open-design oxygen mask. We also hoped that more efficient oxygen consumption would be achieved.

METHODS: We conducted a retrospective chart review of patients who were administered oxygen via open-design oxygen delivery devices.

RESULTS: The total number of patients who received oxygen via open-design oxygen delivery devices was 610 cubic feet and the cost was $3,411. Despite the increase in oxygen consumption, there was no significant change in cost.

CONCLUSIONS: The open-design oxygen delivery devices allowed for improved patient safety and reduced cost.

“Implementation of OxyMask … improved patient safety and significantly reduced cost.”

“We previously had reports of inadequate flows delivered causing a concern for CO2 rebreathing, and since implementation of OxyMask, we have had no concerns.”

“Oxygen consumption and supply cost per patient day were studied, and cost per patient day was significantly reduced.”

“Although the individual devices are more expensive, cost savings were realized through a reduction in the number of devices used and oxygen consumption.”

OxyMask

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