

Development of innovative low-pressure continuous suction unit that is equipped with intermittent operation - contribution for traffic accident medical care-

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Ventilator-associated pneumonia (VAP) is the most common complication in intensive care unite (ICU). The mortality rate in VAP patients is about 30%. The most major way in preventing VAP is intermittent subglottic suctioning. However, there is no low-pressure continuous suction unit that is equipped with Intermittent operation. In this project, we aim to development of innovative low-pressure continuous suction unit with local companies. In this study, we evaluated the clinical feasibility and safety of this machine. In non-cliiical study, we confirmed that the pressure in the circuit quickly returns to atmospheric pressure by Intermittent operation. In clinical study, we fixed the protocol of specific clinical research using unapproved medical devices. The protocol is being reviewed by Hokkaido University Certified Review Board.