

Question:

In the adult emergency population, how does the setting of an intubation relate to the presence of aspiration and overall patient outcomes during their stay at the hospital.

Summary:

Intubation can be done in different setting in the hospital, but in an emergent situation, the risks of aspiration are greater in the emergency department than in other setting such as the intensive care unit or the operating room. However, there is very little research around the world to signify the relationship between emergency department intubations and the development of aspiration pneumonia according to *Aspiration during emergency intubation in the emergency department: A review*. Endotracheal intubation is one of the most common invasive procedures in the emergency department. It is considered the gold standard of airway management in emergent situations seen commonly in the ED. The risks of this procedure are considered to increase in the ED as opposed to other units due to the limited time for preparation, patient instability, and the urgency of the situation.

Conclusion:

In conclusion, it is crucial that as nurses, we take preventative steps and recognize early signs of aspiration to improve patient outcomes during their stay in the hospital. Since the emergency department is considered the face of a hospital and the first line of contact for critically ill patients, the survival rate for these critically ill patients greatly reflects on the standards of care used in the ED.

Primary Reference:

Roshal, R. (2021, July 5). *Aspiration during emergency intubation in the emergency department: A ...* Retrieved February 6, 2023, from <https://www.cmijournal.org/article.asp?issn=0973-4651;year=2021;volume=19;issue=3;spage=179;epage=184;aui=Roshan>

Secondary Reference:

noue A, Okamoto H, Hifumi T, Goto T, Hagiwara Y, Watase H, *et al.* The incidence of post-intubation hypertension and association with repeated intubation attempts in the emergency department. *PLoS One.* 2019;14:e0212170. Published 2019 Feb 11. doi:10.1371/journal.pone.0212170.

Tertiary Reference:

Alkhoury H, Vassiliadis J, Murray M, Mackenzie J, Tzannes A, McCarthy S, *et al.* Emergency airway management in Australian and New Zealand emergency departments: A multicentre descriptive study of 3710 emergency intubations. *Emerg Med Australas* 2017;29:499-508.