



## MEDICAL TIPS

### ETERNA-MD TABLETS

Issue XII, No. 48, 2023

#### **Association between ondansetron use and mortality of patients on mechanical ventilation in the intensive care unit: a retrospective cohort study**

*Tao L et al. Annals Transl Med 2023; 11(23): 43.*

- Studies show that selective 5-hydroxytryptamine type 3 (5-HT<sub>3</sub>) serotonin-receptor antagonists can protect organs from inflammatory injury show lung protection.
- To study the effects of ondansetron on patients with mechanical ventilation, 18,566 patients on mechanical ventilation were included and the primary outcome was in-hospital death.
- Approximately 13% in-hospital mortality was associated with ondansetron users as compared to 21.6% among non-users.
- Multivariable regression indicated that ondansetron use was associated with a 33% and 32% lower risk of in-hospital and 60-day death respectively.

**Ondansetron usage was significantly associated with a lower mortality risk of ventilated patients in the ICU and may be a new potential adjunctive therapeutic strategy for patients on mechanical ventilation in the ICU.**

