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SuValue® 2016 1 1 2020 12 31

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858

 $P > 0.05$ $P < 0.01$

Effectiveness of haemocoagulase agkistrodon *versus* tranexamic acid and sodium chloride in the prevention and treatment of perioperative bleeding: a real-world study

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Abstract Objective To compare the effectiveness of haemocoagulase agkistrodon and tranexamic acid and sodium chloride in the prevention and treatment of perioperative bleeding in a real world setting. **Methods** A research database was constructed based on the records of inpatient visits using haemocoagulase agkistrodon and tranexamic acid and sodium chloride according to the SuValue® database from January 1, 2016 to December 31, 2020. The patients were divided into two groups according to the different interventions. After matching with a 1:1 propensity score, the effectiveness of two groups was compared. **Results** A total of 858 patients were included in each of the two groups, and there was no statistically significant difference in baseline characteristics between the two groups ($P > 0.05$). Research results showed that patients using haemocoagulase agkistrodon had significantly reduced length of hospital stay, decrease in hematocrit, average estimated surgical bleeding, and decrease in hemoglobin ($P < 0.01$). **Conclusion** Haemocoagulase agkistrodon has better effectiveness than tranexamic acid and sodium chloride for reducing perioperative blood loss based on current real world evidence.

Key words Real world study; Propensity score matching; Haemocoagulase agkistrodon; Tranexamic acid and sodium chloride; Perioperative bleeding; Effectiveness

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