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July 26, 2018

here are the APSS e-news.

Kindly assist us to disseminate the e-news to the members of Japanese Society for Spine Surgery and Related Research. Thank you.

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Journal Highlights

by ASJ Editorial Board Members

MINIMAL DOSE OF TRANEXAMIC ACID IS EFFECTIVE IN REDUCING BLOOD LOSS IN COMPLEX SPINE SURGERIES: A RANDOMIZED DOUBLE-BLIND PLACEBO-CONTROLLED STUDY

Tranexamic acid is widely administered to patients undergoing complex surgeries owing to its anti-fibrinolytic efficacy. Several previous reports have addressed the adverse side effects of tranexamic acid, including cerebral thrombosis; cardiopulmonary thromboembolism; gastrointestinal symptoms (i.e., diarrhea, nausea, and vomiting); hypotension; thrombosis; blurred vision; renal cortical necrosis; and retinal artery obstruction. However, such side effects are rare, and tranexamic acid remains commonly used in cardiac, urologic, and gynecologic surgeries as well as in traumatic brain injury due to its efficacy and safety in reducing blood loss and transfusion. The efficacy of tranexamic acid has also been shown in orthopedic surgeries, including joint arthroplasty and multiple trauma, making it well accepted among orthopedic surgeons. However, despite the available high-quality randomized controlled studies, the use of tranexamic acid for spine surgery remains limited as it might theoretically cause devastating neurological complications related to thromboembolism.

To the best of our knowledge, there have been no reports of such neurological complications in spine surgery. However, high-quality studies investigating the efficacy and safety of different doses of tranexamic acid in spinal procedures as well as the influence of demographic factors, such as subjects' ethnicity and region, on its efficacy and safety are required. This randomized clinical trial, which included 50 Iranian patients, is clinically relevant despite a few methodological limitations. Intravenous tranexamic acid (15 mg/kg) was clearly effective for laminectomy (for  $\geq 2$  level) and posterolateral fusion, and no patients showed adverse side effects. We believe that this paper builds the case to reconsider the use of tranexamic acid in complex spine surgery.

Read the full article of the reviewed publication here

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Highlights

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CLICK TO VIEW UPDATED COURSE PROGRAMME

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<https://apssonline.us13.list-manage.com/track/click?u=6ab233f63d72f06ae605c37ce&id=c5b103638c&e=a68d1581c2>

**\*\* 11th Spine Deformity Solutions: A Hands-On Course**

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7 - 9 Sep 2018

The preliminary programme is available.

Click [HERE](#) for more info

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**\*\* APSS Davao Operative Course 2018**

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6 - 8 Dec 2018

Registration to open in August 2018!

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**\*\* APSS - APPOS 2019 Combined Meeting**

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4 Apr - 6 Apr 2019

Abstract submission to open in September 2018!

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**APSS Diary of Events**

Keep yourself up-to-date with APSS future events.

Click [HERE](#) for more info

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