Trauma & Ortho Bulletin December 2019

Articles

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[To assess the incidence, severity, and outcomes of pediatric acute respiratory distress syndrome following trauma using Pediatric Acute Lung Injury Consensus Conference criteria.]

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follow-ups.

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**Improved Reduction of the Tibio-Fibular Syndesmosis with Tightrope compared to Screw Fixation: Results of a Randomized Controlled Study.**
[Based upon our results the Tightrope device appears to compare favorably to two, 3.5 mm, 3-cortex screw fixation for syndesmosis injuries.

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**Initial focused assessment with sonography in trauma versus initial CT for patients with haemodynamically stable torso trauma.**
[Focused assessment with sonography in trauma (FAST) examination is a widely known initial evaluation for patients with trauma. However, it remains unclear whether FAST contributes to patient survival in patients with haemodynamically stable trauma. In this study, we compared in-hospital mortality and length of stay between patients undergoing initial FAST vs initial CT for haemodynamically stable torso trauma.]

*Freely available online*

**Intravenous and subsequent long-term oral tranexamic acid in enhanced-recovery primary total knee arthroplasty without the application of a tourniquet: a randomized placebo-controlled trial.**
[ Intravenous and subsequent long-term oral TXA produced less blood loss and less swelling and ecchymosis compared with short-term TXA without increasing the risk of complications.

*Freely available online*

**Itch in Chronic Wounds: Pathophysiology, Impact, and Management.**
[The aims of this review are to analyze the current literature regarding the characteristics and pathophysiological mechanisms of itch in chronic wounds, to assess the impact on quality of life and delayed-healing, to focus on the best strategies of prevention and treatment, to highlight the importance of on-going research in order to fully understand the pathophysiology, and to improve the management of target therapies.]

*Freely available online*

**Osteoporotic Fractures in Patients With Atrial Fibrillation Treated With Conventional Versus Direct Anticoagulants.**
Binding C. *Journal of the American College of Cardiology* 2019;74(17):2150-2158.
[In a nationwide population, the absolute risk of osteoporotic fractures was low among patients with atrial fibrillation on OAC, but DOAC was associated with a significantly lower risk of osteoporotic fractures compared with VKA.

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**Radial Nerve Palsy Recovery With Fractures of the Humerus: An Updated Systematic Review.**
[From the published data from 1964 to 2017, patients who underwent surgical exploration within 3 weeks of injury had a significantly higher likelihood of regaining radial nerve function than patients who underwent nonsurgical management with or without late surgical exploration.]
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Surgical Management of Lumbar Radiculopathy: a Systematic Review.
[Most findings are based on a body of RCT evidence graded as low to very low certainty. Compared with nonsurgical interventions, surgery probably reduces pain and improves function in the short- and medium-term, but this difference does not persist in the long-term. Although surgery appears to be safe, it may or may not be cost-effective depending on a decision maker’s willingness to pay threshold.]
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The effect of remote ischaemic preconditioning on myocardial injury in emergency hip fracture surgery (PIXIE trial): phase II randomised clinical trial.
[To investigate whether remote ischaemic preconditioning (RIPC) prevents myocardial injury in patients undergoing hip fracture surgery.]

The efficacy of tranexamic acid for brain injury: A meta-analysis of randomized controlled trials.
[Tranexamic acid is associated with substantially reduced mortality and growth of hemorrhagic mass in patients with traumatic brain injury, but the need of neurosurgery and extracranial surgery, as well as the risk of unfavorable outcome (GOS) are similar between tranexamic acid and placebo.]
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Reports

The following report(s) may be of interest:

Leukomed Sorbact for preventing surgical site infection.
National Institute for Health and Care Excellence (NICE); 2019.
https://www.nice.org.uk/advice/mib197
[The technology described in this briefing is Leukomed Sorbact. It is used for preventing surgical site infection (SSI) in closed surgical incisions with up to moderate exudate levels. The intended place in therapy would be instead of existing interactive postoperative wound dressings in people at risk of developing SSI from closed surgical incisions.]
Freely available online

LQD Spray for treating acute and chronic wounds: Medtech innovation briefing.
National Institute for Health and Care Excellence (NICE); 2019.
https://www.nice.org.uk/advice/mib202
[The technology described in this briefing is LQD Spray. It is for the external, local treatment of a range of acute and chronic wounds. This includes chronic leg ulcers, superficial partial thickness burns and self-harm wounds. The innovative aspects are that it is the only biopolymer wound dressing, and can be used without a secondary dressing. Also, it is a natural antimicrobial and it can be used in patient self-management, although there is no published evidence on this use.]
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