

Identifying skull fractures in young children

Gravel and colleagues describe the derivation and validation of a clinical rule to identify skull fractures in children with isolated head trauma.¹ Their study identified young age (< 2 months) and parietal or occipital hematoma as predictors of skull fracture on skull x-rays.

However, the article and the accompanying commentary² ignore a safer tool that minimizes unnecessary radiation exposure in children who have suffered a minor head injury: point of care ultrasound (POCUS).

POCUS can be used at the bedside to rapidly identify a skull fracture without the use of radiation. It has been shown to have a sensitivity of 82% to 100% and a specificity of 94% to 97% for identifying skull fractures in children compared with computerized tomography scans.^{3–5} The technique for POCUS may be learned in as little as one hour of combined didactic and hands-on training.⁴

Not only do skull x-rays carry radiation risk, they may be more difficult to interpret. Chung and colleagues found that skull x-rays had a sensitivity of 76% and a specificity of 84% for identifying skull fractures when interpreted by pediatric emergency physicians.⁶

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Health benefits of hosting major international events

The fact that there is an overlap between what is considered health — and hence disease prevention — and injury prevention is often overlooked.¹ This is unfortunate given the clear contribution of injuries to the global ill-health burden and the potential for injury prevention efforts to contribute substantially to the promotion of health and the reduction of health services needed to treat injuries.

It may surprise some to learn of an unexpected legacy from the Sydney 2000 Olympic Games.² General injury surveillance in public emergency departments during the Olympic Games found an increase in the number of injuries from broken glass, especially at the start of the games. This prompted immediate action — that is, beer and other drinks were no longer available for purchase by the public or allowed to be brought to venues by the public in glass bottles and containers. Following this action, the rate of such injuries was shown to be reduced. Now, for all large sporting events across Australia, glass containers cannot be brought in by the public, and all drinks for purchase are provided in plastic cups.

This is a great example of how simple measures to prevent injury can greatly affect the health of all populations.

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NOACs: drug–drug interactions

We commend Fralick and colleagues for their article on drug interactions with rivaroxaban.¹ All novel oral anticoagulants

(NOACs) were introduced as at least non-inferior (in some cases superior) to warfarin. In addition to high efficacy, NOACs were reported to have a better safety profile with the added advantage of eliminating the requirement for regular coagulation monitoring.²

Despite fewer food interactions, physicians still have to consider drug–drug interactions when prescribing NOACs. These pharmacokinetic interactions were divided into three levels of warnings: red alert precludes the use of a given NOAC (contraindicated/discouraged); orange alert prompts adapting the NOAC dose; and yellow alert allows for maintaining the original dose unless two or more yellow interactions are present — in which case, the NOAC dose may need to be adapted (orange) or the drug not prescribed at all (red). For many potential interactions with medications often used for atrial fibrillation or other comorbidities, no detailed information is available. It is prudent to abstain from using NOACs until more data are available. Clinicians prescribing NOACs must be aware of relevant drug–drug interactions as well as of the limited possibilities to assess the level of anticoagulation. Close collaboration with pharmacists and anticoagulation specialists seems crucial.³

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Letters to the editor

Letters have been abbreviated for print. See www.cmaj.ca for full versions and competing interests.