## FIRECRACKERS

Firecrackers pose a serious danger when handled incorrectly or do not comply with manufacturing standards. Most firecrackers related injuries occur within the 5-14 year old male children group (Mohammad M. Al-Qattan, 2009) (Xavier Moore J, 2014) (Puri V, 2009) (Canner JK, 2014).

Education in the classroom has been proved more effective in reducing the incidence than campaigning on the news (Jones D, 2004).

Firework misuse is the leading cause of injury followed by device failure (Puri V, 2009) (Xavier Moore J, 2014).

The most common sites of injury are the hand, face and eye (Puri V, 2009). Collaboration between plastic, traumatology and ophthalmological departments is essential both in treatment as in education and preventive recommendations.

It is important to notice that a false descent in incidence might be due to decrease in reports or the decision not to use the emergency room service due to income and health insurance status (Xavier Moore J, 2014).

## PREVENTION

Firecrackers are **never to be used by** children alone, adults under the influence of any substances, If homemade, adulterated or past their expiration date or without eye protection









If the firecrackers does not go off <u>immediately</u> after de ignition is completed:



Everyone present should walk away to a **safe distance** (no less than 3 m).



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Count to 60.

A sober adult without flammable clothing should approach with a bucket of water and **completely soak the firecracker**.



Dispose of the defective firecracker and contact the authorities for report.





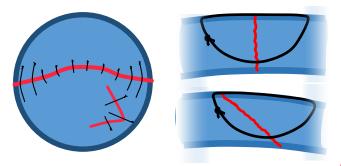
## Is the patient safe? Make sure the patient is hemodynamically stable and does not require other more urgent assistance.



**Don't make it worse**: avoid applying pressure to a potentially wounded eye. It might cause the prolapse of intraocular tissue through undetected wall ruptures.

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**Do your best with what you've got.** Eye closure is paramount during the first hours of ocular trauma since the risk of infection increases alongside exposure time. Any posterior segment surgery or eyelid repair can be reattempted later provided there is no cornea exposition or manifest infection of the globe.



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Once in the OR try to perform a full evaluation under the correct sedation possible according to the anesthetist. Locally administered drugs and the patient's efforts cause pressure on the wounded globe leading to prolapse and more damage.

AVOID TISSUE PROLAPSE

**Deal with the rest as soon as possible**. With a closed eye make sure the patient gets the proper treatment with an anterior segment, oculoplastics or retina specialist. REMEMBER closing the eye comes FIRST but is <u>not the only measure needed</u>.

**CONTROL THE PATIENT.** The first 24 hours post-op are critical and subsequent visits, daily or weekly should be planned for. The best surgical procedure is worthless without the proper postop care.

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In superficial wounds treat locally with broad spectrum antibiotics and anti-inflammatory drugs. Ointments have increased duration and may help with compliance. **Regain binocularity as soon as possible in children under 10**.

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Canner JK, M. e. (2014). US emergency department visits for fireworks. *journal of surgical research 190*, 305-311. Jones D, L. W. (2004). Firework injuries presenting to a national burn's unit. *. Ir Med J*, 97(8):244-5. Mohammad M. Al-Qattan, A. A.-T. (2009). Localized hand burns with or without concurrent blast injuries from fireworks. *Burns 35*, 425–429. Puri V, M. S. (2009). Firework injuries: a ten-year study. *Journal of Plastic, Reconstructive & Aesthetic Surgery*, 62, 1103-1111. Xavier Moore J, M. G. (2014). The epidemiology of firework-related injuries in the United States:. *Injury, Int. J. Care Injured 45*, 1704–1709.

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