



Bilateral Eye Injuries: International Globe and Adnexal Trauma Epidemiological Eye Study (IGATES) registry.

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Key Points:

- 9 countries, 117/ 3045 patients (3.7%),
 - Overall 36.8% burns,
 - 30.1% workplace, 40% burns (thermal & chemical)
 - 26.8% domestic, 55% burns all chemical
- Visual outcome: 1/5 vision worse than 6/60, 7% bilaterally <6/60

Method: All patients with bilateral eye and/ or adnexal injuries included from the IGATES eye injury registry¹ to March 2022 utilising the IGATES trauma terminology².

Results: 234 eye injuries (representing 117 patients) with a male to female ratio of 5.5:1 and mean age of 29.3 years included in the analysis. Almost 9/10 injuries (110/ 123, 89.4%) were accidental/unintentional with 30.1% occurring in the workplace, 26.8% in a domestic setting and 21.1% associated with a road traffic accident. Burns represented the most common mechanism (36.8%) with chemicals being responsible for 72.1% of these injuries. Final visual outcome was worse than 6/60 vision in 26 eyes (22.2%). A total of 8 patients had final visual acuity of worse than 6/60 in both eyes.

Setting & Mechanism:

	Burns	Mixed	Sharp	Other	Blunt
Workplace	15	8	10		4
Domestic	18	2	5	1	7
Roadtraffic		10	5	2	8
Public place	2	2	1		4
Fireworks	5	1	1		
Sports venue			1		1

Type of injury:



Conclusion:

The majority of bilateral eye injuries accidental and occurred in the workplace or domestic setting. Public health interventions such as education re risks in the workplace and in domestic settings for this devastating category of eye injuries.

IGATES partners

