



## PAEDIATRIC ACUTE CARE GUIDELINE

### Nasal Trauma

<b>Scope (Staff):</b>	All Emergency Department Clinicians
<b>Scope (Area):</b>	Emergency Department

This document should be read in conjunction with this DISCLAIMER  
<http://kidshealthwa.com/about/disclaimer/>

# Nasal Trauma

## Background

- Nasal fracture may not be an isolated injury: exclusion of other injuries is vital
- Acute complication such as septal haematoma and CSF rhinorrhoea requires early detection and management to prevent complications
- Proper assessment of a nasal fracture with surgical corrective intent is best made in the ENT Clinic after the soft tissue swelling has settled 7-10 day post injury

## General

- Nasal fracture results from either lateral or frontal forces to the nose
- Common causes of nasal fractures in the paediatric population are contact games and sports followed by falls
- 20% of nasal fractures are associated with other facial injuries, hence a search for significant other injuries is important as part of the initial assessment
- Proper history taking from patient, witness and parents is vital to estimate severity and extent of injury
- A period of loss of consciousness is an indication of closed [head injury](#)

## Examination

### Common Presenting Signs and Symptoms

- Swollen nose
- Periorbital ecchymosis
- Epistaxis
- Blocked nose

- Pain

## Management

- All patients with a nasal fracture are assumed to have other head injuries until proven otherwise. Hence all of these patients require complete neurological examination including cranial nerve examination and palpation of the facial bones for other facial fractures
- Management of intracranial or orbital injuries takes precedence over nasal fractures
- If nasal fracture is an isolated injury, acute complications need to be excluded:
  - Septal haematoma
  - CSF rhinorrhoea

Acute Complications
<b>Septal Haematoma</b> <ul style="list-style-type: none"> <li>• Presents as a unilateral or bilateral fluctuant septal swelling resulting in occlusion of the nasal passage</li> <li>• Septal deviation (bent cartilage septum) may present with similar appearance except that it is solid rather than fluctuant on palpation</li> <li>• Septal haematoma should be treated as a <b>surgical emergency</b> requiring incision and drainage within 24 hours</li> <li>• <b>Patients need referral to Paediatric ENT Team URGENTLY</b></li> <li>• Untreated septal haematoma may lead to septal abscess resulting in cavernous sinus thrombosis and meningitis, or cartilage destruction with a “saddle nose” deformity</li> </ul>
<b>CSF Rhinorrhoea</b> <ul style="list-style-type: none"> <li>• Presentation of traumatic CSF leaks can be subtle and diligence is required when one is suspected</li> <li>• May presents with unilateral continuous nasal drip of clear water consistency</li> <li>• May be positional in nature, most commonly associated with standing or leaning forward</li> <li>• Consider need for head CT and referral to Paediatric Neurosurgical +/- ENT Team</li> </ul>

## Discharge criteria

- After proper examination and exclusion of the acute emergencies, the patient with a nasal fracture is advised to rest at home with the following instructions:
  - Avoid contact sports and pressure on the nose
  - Avoid aggressive blowing of the nose
  - Analgesia
  - Give parent or carer the [Head Injury and Return To Sport Fact Sheet](#)
  - Seek medical review if worsening pain, headache and fever (septal abscess)

## Referrals and follow-up

- **Patients with suspected nasal fracture require review in ENT Out Patient Clinic in 7-10 days**
- Explain to the patient that this duration will allow time for swelling to settle, enabling the Paediatric ENT Team to properly assess the nose for deformity and nasal obstruction
- Any necessity of intervention will be discussed at the clinic review


## Observations

- Baseline neurological observations required

### References

PMH Emergency Department Guidelines – Nasal trauma: Last Updated 17/07/14  
 Prosser, JD, Vender, JR, Arturo S. *Traumatic Cerebrospinal Fluid Leaks*. Otolaryngol Clin N Am 44 (2011) 857-873.  
 Retrieved 18/07/2014 from:  
[http://www.hopkinsmedicine.org/otolaryngology/education/thursday\\_lecture\\_series/traumatic%20CSF%20leaks.pdf](http://www.hopkinsmedicine.org/otolaryngology/education/thursday_lecture_series/traumatic%20CSF%20leaks.pdf)

This document can be made available in alternative formats on request for a person with a disability.

File Path:			
Document Owner:	Dr Meredith Borland HoD, PMH Emergency Department		
Reviewer / Team:	Kids Health WA Guidelines Team		
Date First Issued:	21 July, 2014	Version:	
Last Reviewed:	12 June, 2017	Review Date:	12 June, 2020
Approved by:	Dr Meredith Borland	Date:	12 June, 2017
Endorsed by:	Medical Advisory Committee	Date:	12 June, 2017
Standards Applicable:	NSQHS Standards: 		
<b>Printed or personally saved electronic copies of this document are considered uncontrolled</b>			