# Hematology Nasal Bleeding



# DDx

DDX	
Local trauma	Nose picking
	Facial trauma
	Foreign bodies
	Nasal or sinus infections
	Nasal septum deviation
Environmental	Dry cold conditions
	<ul> <li>Prolonged inhalation of dry air (Oxygen)</li> </ul>
latrogenic	Nasogastric tube insertion
	Nasotracheal intubation
Medical	<ul> <li>Topical corticosteroids and antihistamines</li> <li>Solvent inhalation (huffing)</li> <li>Snorting cocaine</li> <li>Anticoagulants: Aspirin, warfarin, platelet inhibitors</li> </ul>
Coagulopathies	<ul> <li>Inherited coagulopathies:         von Willebrand disease,         hemophilia A &amp; B</li> <li>Splenomegaly</li> <li>Thrombocytopenia</li> <li>Platelet disorders</li> <li>Liver disease • Renal failure</li> <li>Chronic alcohol abuse • AIDS</li> </ul>
Vascular Abnormalities	<ul> <li>HTN • Sclerotic vessels</li> <li>Hereditary hemorrhagic telangiectasia</li> <li>Arteriovenous malformation</li> <li>Neoplasm</li> <li>Aneurysms</li> <li>Septal perforation/deviation</li> <li>Endometriosis</li> </ul>

# **Chief Complain: Nose Bleeding (Epistaxis)**

Question	Indication		
History of Present Illness:			
Onset			
Duration			
Frequency			
Severity	How much time did it take to stop? What is the estimated amount of blood loss?		
Aggravating & reliving factors			
Previous episodes?			
laterality of the nosebleed (unilateral or bilateral)			
Determine whether the bleed occurs after exercise or during sleep or is associated with a migraine.			
Ask about the methods used to stop the bleeding			
Determine whether hematemesis or melena has occurred (bleeding from other sites)			
Important Questions:			
Do you have HTN? Did you notice any bruising on your body? History of recent trauma? Do you take drugs such as aspirin, warfarin (Coumadin)? Recent nasal intubation?			
Systemic review of the system involved :			
Tiredness	Sweating		
Pruritus	Bruising		
Fever			

## Past medical and surgical history:

- History of Liver diseases
- Nasal tumors
- Renal failure
- Recent nasal surgery
- Blood transfusions

## **Drug and allergy history:**

- Blood thinning drugs
- Non-steroidal anti-inflammatory medications

#### **Family History:**

- Any liver diseases in the family
- Polycythemia Vera
- Bleeding disorders
- HTN

## **Social History:**

- Drug abuseSmoking
- Alcohol
- Travel

Important cause of liver disease and AIDS

# **Menstrual History (if female):**

Regular or not?	
Amount?	heavy periods suggest bleeding
	tendency

# **Investigations:**

- Hematocrit count and type and cross-match, if a history of persistent heavy bleeding is present.
- Complete blood count (CBC) with differential, if a history of recurrent epistaxis, a platelet disorder, or neoplasia is present.
- The international normalized ratio (INR)/prothrombin time (PT) if the patient is taking warfarin or if liver disease is suspected.

#### **Management:**

Medical approaches to the treatment of epistaxis may include the following:

- Adequate pain control in patients with nasal packing.
- Oral and topical antibiotics to prevent rhinosinusitis and possibly toxic shock syndrome.
- Avoidance of aspirin and other nonsteroidal antiinflammatory drugs (NSAIDs).
- Medications to control underlying medical problems (e.g. Hypertension, vitamin K deficiency) in consultation with other specialists.

For those who have recurrent or severe bleeding for which medical therapy has failed, various surgical options are available.

## **Complications of Epistaxis:**

- Sinusitis
- Septal hematoma/perforation
- External nasal deformity
- Mucosal pressure necrosis
- Vasovagal episode
- Balloon migration
- Aspiration

