

# Chapter 9

**Nursing care of  
pediatric patients  
with hematological  
problems and  
cancer**



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# Learning outcomes

- Describe pediatric patients with abnormalities in the hematological problems and cancer.
- Describe Pathology, signs and symptoms of pediatric patients with abnormalities in the hematological problems and cancer.
- Describe treatment in pediatric patients with abnormalities in the hematological problems and cancer.
- Describe nursing diagnosis and nursing care in pediatric patients with abnormalities in the hematological problems and cancer.

# PART 1

## Hemophilia

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# INCIDENCE



It is primarily found **in males**  
but transmitted by **female**  
**carriers.**



X- linked recessive  
chromosomes



# TYPE OF HEMOPHILIA



types

Hemophilia A

Hemophilia B

Deficiency of factor VIII

Deficiency of factor IX

# PATHOPHYSIOLOGY



## Injury Occurs

- 1 Injury to blood vessel results in bleeding.



- 2 Vessel constricts and clotting factors are activated.



## Normal

- 3 Along with other substances, clotting factor VIII causes a strong platelet plug to form.



- 4 A stable fibrin clot forms over the platelet plug as a final seal on the injury, and the bleeding stops.



## Hemophilia A

- 3 Lack of clotting factor VIII causes a weak platelet plug to form.



- 4 Incomplete and/or delayed fibrin clot allows bleeding to continue.



# CLINICAL MANIFESTATION

A Genetic Disorder that effects the body's ability to clot blood.



Excessive bleeding from cuts or injuries



Unexplained Nose Bleeds

Large Bruises



**Symptoms**



Blood in Urine/Stool

Swelling/Pain in Joints

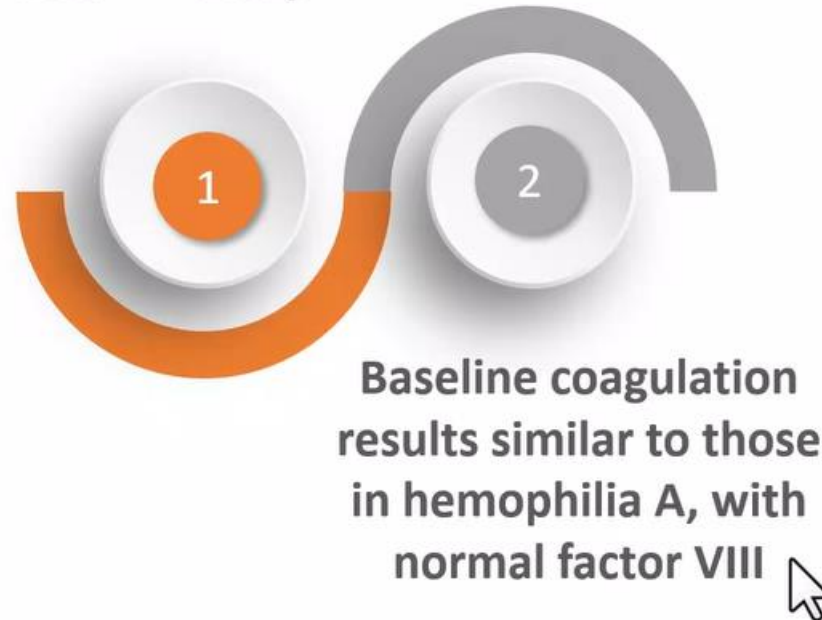


Increased bleeding after surgery/ Dental Work

Faculty of Nursing, NPRU

# Diagnostic test finding specific to Hemophilia B

**Deficient  
factor IX assay**





## ACTIONS TO TAKE DURING A BLEEDING EPISODE

01

For surface cuts, apply pressure.

02

Apply cold compresses or ice bags  
and elevate the injured part.

03

Restrict activity for 48 hours  
after bleeding is under control.

04

Administer analgesics for the pain  
associated with hemarthrosis.

