



### Dr. Jacob Pendergrast, Sickle Cell Disease

<ul> <li>There may be exceptions (eg., signs of placental insufficiency, prev IUGR)</li> </ul>
<ul> <li>GOOD EVIDENCE FOR STROKE PREVENTION</li> <li>Transfusion indicated for all children with high-risk dopplers and history of stroke</li> <li>Smaller value for children with SCIs</li> <li>Limited evidence in adults; look for other causes, caution with hemorrhagic stroke</li> </ul>
<ul> <li>THERAPEUTIC TRANSFUSION IF ACUTE ORGAN COMPROMISE</li> <li>Limited evidence, but consensus supports transfusion for acute stroke, acute chest syndrome, sickle hepatopathy</li> <li>Other situations: "if all else fails"</li> </ul>

SELECTION OF RBCs MUST BE DONE WITH CARE!

Fell your blood bank early that your patient has sickle cell, provide detailed transfusion history

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## Congential Coag – VWD, Hemophilia, Dr. Michelle Sholzberg

- The bleeding history is the most important test of hemostasis

#### Von Willebrand Disease

- Diagnosis: 3 Clinical Components
  - Bleeding Symptoms
  - +/- Family History
  - Laboratory results

Bleeding Symptoms	Treatment
Mucocutaneous <ul> <li>Menorrhagia</li> <li>Epistaxis</li> <li>Bruising</li> <li>Excessive bleeding from minor wounds</li> <li>GI bleeding</li> <li>Oral cavity/post-dental procedure</li> <li>Post-operative</li> <li>Post-partum</li> </ul> Musculoskeletal (Type 3 VWD) <ul> <li>Hemarthrosis</li> <li>Soft tissue, muscle hematomas</li> </ul>	<ul> <li>Call Hematology/Transfusion Medicine</li> <li>DDAVP (Desmopressin)</li> <li>Anti-fibrinolytic agents (TXA)</li> <li>Transfusion based – VWF:FVIII concentrate <ul> <li>Humate-P or Wilate</li> </ul> </li> </ul>
lemophilias:	
Factor 9	Factor 8
Intrinsic X	ase complex
Hemophilia B	Hemophilia A
Factor IX deficiency	Factor VIII deficiency
• 1 in 30,000 males	• 1 in 5,000 males
Bleeding Symptoms	Treatment
<ul> <li>Musculoskeletal bleeding         <ul> <li>Hemarthrosis</li> </ul> </li> </ul>	<ul> <li>Call Hematology/Transfusion Medicin</li> <li>Anti-fibrinolytic agents (TXA)</li> <li>Transfusion based – specific factor</li> </ul>

- Menorrhagia (symptomatic carriers)

# Factor IX: Benefix, Rebinyn DDAVP/Desmopressin – for mild hemophilia A (FVIII >10%)

#### Resources

- "Principles of Management of Urgent Bleeding in Hemophilia" developed by Dr. Jerry Teitel
- Blood Easy: Coagulation Simplified developed by ORBCoN
- <u>Illustrated Review of Bleeding Assessment Tools and Coagulation tests</u> (Elbaz, Sholzberg)

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