

## DENTAL PROCEDURES

**General Information:** The following are recommendations for various dental procedures. Consultation with a knowledgeable hematologist should be obtained before any procedure is performed on a person with a bleeding disorder. Each patient and situation should be assessed on an individual basis.

### Hemophilia A

Factor VIII levels	Mild >5%	Moderate 1-5%	Severe <1%
<b>Procedure</b>			
Routine cleaning	No treatment	No treatment	No treatment
Dental braces	No treatment	No treatment	No treatment
Sealants	No treatment	No treatment	No treatment
Deep scaling	One dose of 20-25 units* per Kg before procedure or DDAVP.	One dose of 20-25 units* per Kg before procedure	One dose of 20-25 units* per Kg before procedure
Restoration	Dependent on type of anesthesia	Dependent on type of anesthesia. One dose of 20-25 units* per Kg before procedure May repeat in 24 hours	One dose of 20-25 units* per Kg before procedure May repeat in 24 hours
Filling with local infiltration	No treatment	No treatment	One dose of 20-25 units* per Kg before procedure.
Nerve block and Intramuscular anesthesia	One dose of 20-25 units* per Kg before procedure or DDAVP.	One dose of 20-25 units* per Kg before procedure	One dose of 20-25 units* per Kg before procedure
Simple dental extractions	20-25 units* per Kg before procedure or DDAVP.  May repeat in 24 hours if still oozing.  Amicar** for 5-7 days.	20-25 units* per Kg before procedure.  May repeat in 24 hours if still oozing.  Amicar** for 5-7 days.	20-25 units* per Kg before procedure.  May repeat in 24 hours if still oozing.  Amicar** for 5-7 days.
Complex dental extractions (i.e. wisdom teeth, gum surgery)	40-50 units* per Kg before procedure or DDAVP.  After procedure q 24 hours for 3 days give 20-30 units* per Kg or repeat DDAVP.  Amicar** for 7-10 days.	40-50 units* per Kg before procedure.  24 hours after procedure repeat 40-50 units* per Kg then 24 hours later, administer 25-30 units* per Kg for 2 more days.  Amicar** for 7-10 days.	40-50 units* per Kg before procedure.  40-50 units* per Kg 12 hours after procedure and q 12 hours for 2 days then q day for 3 more days.  Amicar** for 7-10 days.

\*Units of factor VIII concentrate

\*\*Amicar dose is 50-100 mg/Kg q 6 hours PO not to exceed 6 gms per dose or 24 gms in 24 hours.

Amicar mouthwash: may crush tablet and mix with water, use elixir or IV preparation 2.5 mg/10 ml Swish 10 ml over site gently for 2 minutes, repeat QID, then NPO for 1 hour.

## Hemophilia B

<b>Factor IX levels</b>	<b>Mild &gt;5%</b>	<b>Moderate 1-5%</b>	<b>Severe &lt;1%</b>
<b>Procedure</b>			
Routine cleaning	No treatment	No treatment	No treatment
Dental braces	No treatment	No treatment	No treatment
Sealants	No treatment	No treatment	No treatment
Deep scaling	One dose of 40-50 units* per Kg before procedure.	One dose of 40-50 units* per Kg before procedure	One dose of 40-50 units* per Kg before procedure
Restoration	Dependent on type of anesthesia	Dependent on type of anesthesia One dose of 40-50 units* per Kg before procedure. May repeat in 24 hours	One dose of 40-50 units* per Kg before procedure. May repeat in 24 hours
Filling with local infiltration	No treatment	No treatment	One dose of 40-50 units* per Kg before procedure.
Nerve block or Intramuscular anesthesia	One dose of 40-50 units* per Kg before procedure.	One dose of 40-50 units* per Kg before procedure	One dose of 40-50 units* per Kg before procedure
Simple dental extractions	40-50 units* per Kg before procedure.  May repeat in 24 hours if still oozing.  Amicar** for 5-7 days.	40-50 units* per Kg before procedure.  May repeat in 24 hours if still oozing.  Amicar** for 5-7 days.	40-50 units* per Kg before procedure.  May repeat in 24 hours if still oozing.  Amicar** for 5-7 days.
Complex dental extractions (i.e. wisdom teeth, gum surgery)	80-100 units* per Kg before procedure.  After procedure q 24 hours for 3 days give 40-60 units* per Kg.  Amicar** for 7-10 days.	80-100 units* per Kg before procedure, repeat 24 hours after initial dose.  Then 24 hours later administer 40-50 units per Kg* for 2 more days.  Amicar** for 7-10 days.	80-100 units* per Kg before procedure, repeat q 12 hours for 2 days.  Then repeat dose q day for 3 more days.  Amicar** for 7-10 days.

\*Units of factor IX concentrate

\*\*Amicar dose is 100 mg/Kg q 6 hours PO not to exceed 6 gms per dose or 24 gms in 24 hours. Avoid the use of antifibrinolytic agents in patients being treated with prothrombin complex concentrates.

Amicar mouthwash: may crush tablet and mix with water, use elixir or IV preparation 2.5 mg/10 ml Swish 10 ml over site gently for 2 minutes, repeat QID, then NPO for 1 hour.

## **Guidelines**

1. Patients having major dental extractions should be packed with surgical and topical thrombin or the equivalent.
2. All patients should avoid hard food (chips, crackers, etc.) for three days to avoid dislodging the fibrin clot.
3. Patients should not use a straw.
4. Patients with inhibitors require close collaboration with a hemophilia treatment center hematologist.
5. Amicar can be used as a mouthwash.
6. Side effects of Amicar include nausea, cramping and diarrhea.