### BLOOD PRODUCT FACT SHEET

#### FACTOR VIII CONCENTRATE RECOMBINANT (AHF)

<table>
<thead>
<tr>
<th>Other Names</th>
<th>Factor VIII concentrate; ELOCTATE, PrKovaltry™, Nuwiq®, Xyntha®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consent Required</td>
<td>No. Factor VIII is a recombinant product and not a plasma derived factor concentrate.</td>
</tr>
<tr>
<td>Pre-Transfusion Sample</td>
<td>Not Required</td>
</tr>
</tbody>
</table>
| Approval Requirements | Hematopathologist approval required for requests for:  
  - Patients who do not have a diagnosis of Hemophilia A |
| Product Description | Sterile, stable, purified, lyophilized concentrate of Factor VIII manufactured by recombinant DNA technology. Contains no preservatives.  
Units of Factor VIII vary with each lot number. One unit of Factor VIII concentrate equals the clotting activity in 1 mL of fresh plasma.  
Supplied as a lyophilized product with sterile water diluent. Reconstituted and filtered into a syringe in Transfusion Medicine.  
Patients should receive the same brand of product received in the past, unless it is unavailable. |
| Clinical Indications | • To prevent or control bleeding in patients with proven deficiency of Factor VIII (hemophilia A).  
  • Immune tolerance treatment |
| Contraindications | Not indicated for patients with:  
  • No proven Factor VIII deficiency.  
  • High level of Factor VIII inhibitor (unless used for immune tolerance induction)  
  • Von Willebrand's disease.  
  • A sensitivity to mouse or hamster protein. |
| Risks | • Allergic and anaphylactic reactions.  
  • Inhibitor formation. |
| Dosage | Many Hemophilia patients carry a Factor First card with pertinent information about their prescribed therapy.  
Consult with the Hematologist-on-call or Bleeding Disorders Clinic Nurse Practitioner for dosing and prescribing guidelines.  
The nearest combination of whole vials must be used to deliver the prescribed dose. |
| Compatible Solution | The manufacturer does not recommend any compatible fluids. |
| Administration | Encourage patient/caregiver to self-administer the product if they are knowledgeable and able to do so.  
Visually inspect for particulate matter and discoloration prior to administration |
**Refer to:**
- Product monograph, see references.

**Administer:**
- By intravenous injection only.
- At room temperature.
- Through a separate injection site.
- At a rate adapted to the monitored response of the patient.
- If giving factor concentrate through a port or indwelling IV catheter:
  - **Flush** the line before and after administration with 0.9% Normal Saline only.
- If giving factor concentrate via a butterfly infusion set:
  - It is not necessary to flush; the volume of factor concentrate remaining in the infusion set will not affect treatment.
  - However; if a decision is made to flush, **flush** the line with 0.9% Normal Saline only.

**Infusion Rates**
At a rate adapted to the monitored response of the patient.
- ELOCTATE, Kovaltry & Xyntha®:
  - Administer over several minutes as tolerated by the patient
- Nuwiq® at a rate of 4 mL per minute.

**Monitoring**
**Nuwiq® and Kovaltry:**
- **Measure** heart rate during the administration.
- If a marked increase in heart rate occurs, then **reduce** the rate of administration or **interrupt** administration temporarily until symptoms subside.

**Observe** patient for signs and symptoms of a transfusion reaction.
In the event of a suspected transfusion reaction, **refer** to Transfusion Reaction Procedure & Reference Guide and **complete** Transfusion Reaction Report Form.
**Evaluate** effectiveness of treatment.

**Storage Conditions**
Stored in a monitored blood product storage refrigerator at 1 – 6 ºC.
Home storage of Factor VIII may vary from in hospital storage and does not apply in the hospital situation.
For reconstituted product:
- **Store** at room temperature
- **Administer** within 3 hours of reconstitution.
- **Return** product and Transfusion Record to Transfusion Medicine within 20 minutes from time of issue if there are any delays in administration.
- **DO NOT** refrigerate or store on nursing unit.

**References**
Product monograph **Xyntha**: Pfizer Canada Inc. July 2013
Product monograph **Nuwiq®**: Octapharma Canada Inc. July 2016
Product monograph **ELOCTATE**: Biogen Canada Inc. July 2016