

This document applies to all Covenant and AHS sites.

Nuwiq® Antihemophilic Factor

Class: Manufactured Anti-hemophilic recombinant product, FVIII

OTHER NAMES: Recombinant Factor VIII, anti-hemophilic factor (recombinant B-Domain Deleted), simotocog alfa *Company: Octapharma Canada Inc.*

	INTRAVENOUS			OTHER		
ROUTES	DIRECT IV	IV Infusion	Continuous Infusion	SC	IM	OTHER
Acceptable Routes*	Yes**	Yes	No	No	No	N/A

^{*} Professionals performing these restricted activities have received authorization from their regulatory college and have the knowledge and skill to perform the skill competently.

DESCRIPTION OF PRODUCT:

- Nuwiq® is a sterile, non-pyrogenic, preservative-free, lyophilized, white to off-white powdered concentrate of fully recombinant human coagulation factor VIII for intravenous administration.
- Available in dose sizes of 250, 500, 1000, and 2000 IU with 2.5 mL of solvent
- No human or animal derived additives are added during the manufacturing process
- Produced by recombinant DNA technology in human cells, then purified by chromatography steps and solvent/detergent treatment for virus inactivation/removal
- The diluent is Sterile Water for Injection, and is supplied in a pre-filled syringe.

AVAILABILITY:

- Supplied by CBS
- Contact your local laboratory/transfusion service regarding stock availability on site.

INDICATIONS FOR USE:

Indicated in adults and children with hemophilia A (congenital factor VIII deficiency) for:

- Routine prophylactic treatment to prevent or reduce the frequency of bleeding episodes
- Control and prevention of bleeding episodes (e.g. in trauma or procedures with increased risk of bleeding).
- Perioperative management (surgical prophylaxis)

CONTRAINDICATIONS:

- Known hypersensitivity to the product or any of the constituents in the formulation of Nuwiq® (contains sucrose, sodium chloride, arginine hydrochloride, sodium citrate and poloxamer 188)
- Does not contain WF and should not be used to treat von Willebrand disease

WARNINGS:

- Development of activity-neutralizing antibodies has been detected in patients receiving factor VIII-containing
 products. If expected plasma factor VIII activity levels are not attained, or if bleeding is not controlled with an
 appropriate dose, an assay that measures factor VIII inhibitor concentration should be performed.
- Anaphylaxis and anaphylactoid reactions are possible.

DOSE (Refer to Product Insert):

1 IU of Nuwiq® per kg body weight is expected to increase, on average, the circulating level of factor VIII by 2% of normal activity.

- Dosage must be individualized to the severity of factor VIII deficiency, location and extent of bleeding, presence
 of inhibitors, Factor VIII level desired, and the patient's clinical condition.
- More frequent or higher doses may be required in the presence of low titre inhibitors (See product insert)
- The required dosage is calculated using the following formula:

Required units=body weight (kg) x desired factor VIII rise (IU/dI or % of normal) x 0.5 (IU/kg per IU/dI)

Expected rise (% of normal) = 2 x administered IU/body weight (kg)

** Consult with Hematologist or the bleeding disorder clinic. **

Nuwiq ® Page: 1 of 4

^{**} Transfusion of Blood Components and Products Learning Module Section Three: Direct IV Administration of Blood Products. RNs may administer direct IV blood products. Not to be confused with medication administration

ADMINISTRATION:

Confirm written (signed) consent has been obtained and documented prior to requesting blood component from lab/transfusion service where possible.

Pre-Infusion: Ensure recent patient weight is on file and pertinent labs are available. Perform the appropriate pre-transfusion checks per protocol.

Access: Nuwig® can be given via CVC, PICC, Port-a-Cath®, or peripheral IV line.

Reconstitution Supplies:

- Nuwiq®, lyophilized in single dose vial
- Diluent (Sterile Water for Injection) in a prefilled syringe
- Vial adapter (contains filter)

Contained in box

Administration Supplies:

NOTE: Included glass syringe maybe incompatible with ICU Medical MicroClave® Neutral Connector. Draw up reconstituted product with a sterile plastic luer-lock syringe for administration as required.

For direct IV administration:

- o Sterile infusion set (provided in kit), if no established IV access
- Sterile plastic luer-lock syringe (large enough to contain dose)

For IV infusion:

- Syringe pump (preferred) or IV pump
- o Syringe pump tubing, or appropriate IV administration set (buretrol preferred)

Reconstitution: Refer to reconstitution steps with vial adapter at:

http://www.albertahealthservices.ca/assets/wf/lab/wf-lab-clin-tm-nuwiq-reconst.pdf

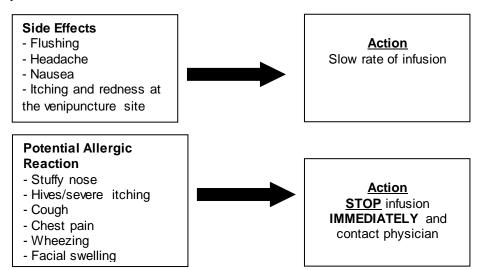
Administration:

- Give within a maximum of 3 hrs of reconstitution
- Dose issued may vary slightly from dose ordered based on vial sizing (± 10%)
- DO NOT mix with other drugs or IV solutions

Administration rate: Recommended 4mL/min. Administration rate should be determined by the ordering physician, local bleeding disorders clinic, and as tolerated by the patient.

POTENTIAL HAZARDS WITH PARENTERAL ADMINISTRATION:

- Potential adverse events related to a blood product transfusion range in severity from minor with no sequelae to lifethreatening.
- All adverse events occurring during a transfusion should be evaluated to determine whether or not the transfusion can be safely continued/restarted.
- All adverse events suspected to be related to a product transfusion (whether during or after a transfusion) should be reported to your local transfusion service.



Nuwiq ® Page: 2 of 4

NURSING IMPLICATIONS:

Patient Monitoring:

 Vital Signs: Pre-administration, on completion of dose, and as patient condition requires (see administration rate).

Patients receiving blood product transfusions must be observed closely for signs of any unexpected or untoward reactions. These reactions may occur during or after the infusion of blood or blood products. For follow up to a transfusion reaction see:

http://www.albertahealthservices.ca/lab/page4240.aspx Notify the transfusion service as soon as possible that an adverse reaction has occurred.

Documentation:

- Ensure documentation is completed as per the AHS *Transfusion of Blood Components and Products* procedure (including vital signs, start and stop date and times etc).
- Assessment of patient tolerability should be documented in appropriate flow chart or clinical record (electronic or paper) as required.

STORAGE & STABILITY OF PRODUCT:

- Stored at 2-8°C until indicated expiry date. Do not freeze.
- Protect from light.
- May be stored for a single period of up to 1 month at room temperature (up to 25 °C). Cannot be returned to refrigerated storage once removed.
- Expiration date is indicated on bottle and packaging. Do not exceed expiry date.
- Administer within 3 hours of reconstitution. Keep at room temperature until administered.

COMMENTS:

Date Effective: 13 Sept 2019

Version: 1.1

Approved By: APL Transfusion Medicine Discipline Council

Document Number: PTMGNR00034

For comments or questions about this document, please contact Transfusion.SafetyTeam @ahs.ca

REFERENCES

Nuwig® product monograph SCN 192533

LINK to WEBSITE for INFORMATION:

http://www.octapharma.ca

Nuwiq ® Page: 3 of 4