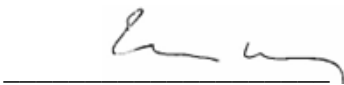





Medical Directive

| | | | |
|---|---|-------------------------|----------------------|
| Title: | Injectable Substances | Assigned Number: | 030 |
| Activation Date: | November 2021 | Review due by: | December 2025 |
| Approval Signature & Date | | | |
| Medical Director: |  | Date Reviewed: | Feb 23, 2024 |
| Clinical Services Director: |  | Date Reviewed: | Feb 23, 2024 |
| Order and/or Delegated Procedure: | Appendix Attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| Title: | | | |
| The implementers may, in accordance with the conditions identified in this directive: | | | |
| <ul style="list-style-type: none"> Administer injectable substances | | | |
| Recipient Patients: | Appendix Attached: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| Title: | | | |
| All active patients of Thames Valley Family Health Team who meet the conditions identified in this directive. | | | |
| Authorized Implementers: | Appendix Attached: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| Title: | | | |
| Thames Valley Family Health Team Registered Nurses, and Registered Practical Nurses (RN/RPN)* herein referred to as implementer. | | | |
| The implementer must receive orientation from the Educator with regards to the task. The implementer must have completed orientation and educational requirements of the Emergency Treatment of Anaphylaxis / Severe Allergic Reactions to Allergy Injections or Immunizations medical directive and is encouraged to review Emergency Treatment of Anaphylaxis / Severe Allergic Reactions to Allergy Injections or Immunizations medical directive to ensure all required supplies and reference materials are available in the case of an emergency. The implementer must sign the Implementer Performance Readiness Form electronically via HR Downloads after successful completion of the orientation (and quiz, if applicable) indicating acceptance of this medical directive | | | |

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| Indications: | Appendix Attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Title: |
| <p>Verbal consent received from the patient, or substitute decision maker, for the implementer to administer one of the injectable substances below:</p> <ul style="list-style-type: none"> • Denosumab (Prolia®) 60mg per 1 mL administered subcutaneously • Vitamin B12 dose varies by patient – administered intramuscularly • Long-acting antipsychotics (paliperidone palmitate, risperidone prolonged-release, loxapine HCL, methotrimeprazine HCL, flupentixol decanoate, haloperidol decanoate, zuclopenthixol decanoate, aripiprazole extended-release) dose varies by patient and by medication - administered intramuscularly • Leuprolide dose varies by patient – administered intramuscularly • Methotrexate dose varies by patient – administered subcutaneously • Darbepoetin alfa dose varies by patient – administered subcutaneously | |
| Contraindications: | Appendix Attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Title: |
| <ol style="list-style-type: none"> 1. No verbal consent from patient or substitute decision maker for RN/RPN to implement this directive. 2. Known hypersensitivity or history of severe previous reaction to the substance being given. 3. Patient has a contraindication specific to a particular injectable substance as per product monograph or appendices 4. Patient is possibly pregnant 5. Patient has a fever, or a fever in past 24-48 hours or other demonstrated signs of current illness | |
| Consent: | Appendix Attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Title: |
| <ol style="list-style-type: none"> 1. Patients of Thames Valley Family Health Team. 2. RN/RPN obtains verbal patient consent prior to the implementation of care. | |
| Guidelines for Implementing the Order/ Procedure: | Appendix Attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Title: |
| <ol style="list-style-type: none"> 1. Determine and confirm that: <ol style="list-style-type: none"> a. There is a current prescription from the treating provider for the injectable substance to be administered b. Ensure appropriate amount of time will have lapsed since the last administered dose according to available prescription information 2. Follow steps as per each injectable substances monograph to ensure proper administration of each substance. | |

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| Documentation and Communication: | Appendix Attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Title: |
| <ol style="list-style-type: none"> Documentation in the patient’s medical record needs to include name and number of the directive, name of the implementer (including credential), and name of the authorizer responsible for the directive and patient. Specific site of injection and medication information including dose administered must also be noted along with Lot Number and Expiration Date. Send a message through the EMR to the patient’s most responsible provider notifying them the administration so that any necessary follow-up and monitoring can be arranged. Information regarding implementation of the procedure and the patient’s response should be documented in accordance with standard documentation practice* <p>* Potter, P.A. & Perry, A.G. (2006). Fundamentals of Nursing. St. Louis: Mosby. College of Nurses of Ontario (2008). CNO Practice Standard: Documentation</p> | |
| Review and Quality Monitoring Guidelines: | Appendix Attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Title: |
| <ol style="list-style-type: none"> The Directive remains in force until and unless amendment occurs. Review will occur biennially. In case the Medical Director identifies the need to change the Medical Directive, at least one TVFHT member of the implementing disciplines will be consulted. At any such time that issues related to the use of this directive are identified, the team must act upon the concerns immediately by identifying these concerns to the Medical Director. The Medical Director will review these concerns and consult with at least one TVFHT member of the implementing disciplines, before necessary changes are made. If new information becomes available between routine renewals, and particularly if this new information has implications for unexpected outcomes, the directive will be reviewed by the Medical Director and a minimum of one TVFHT member of the implementing disciplines. | |
| Approving Physician(s)/Authorizer(s): | Appendix Attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Title: |
| Authorizer Approval Form signed in HR Downloads by Medical Director. | |



Appendix ## - Injectable Substances for Administration and Associated Contraindications

In addition to the general contraindications mentioned within the directive, this table outlines additional contraindications that should be assessed prior to administering the medication*:

| Medication | Contraindications to Administration |
|--|---|
| Vitamin B12 Monograph: pdf.hres.ca/dpd_pm/00026115.PDF | <ul style="list-style-type: none">Hypersensitivity to cobalt |
| Denosumab (Prolia®) Monograph: Microsoft Word - ~db5_Ocefc3f3c0d8468893df9dc50445f15.docx (hres.ca) | <ul style="list-style-type: none">Solution may contain trace amounts of translucent to white protein particles; do not use if cloudy, discolored (normal solution should be clear and colorless to pale yellow), or contains excessive particles or foreign matterAvoid invasive dental procedures during treatment with denosumab. For patients in whom invasive dental procedures cannot be avoided, the clinical judgment of the treating physician should guide the management plan of each patient based on individual benefit-risk assessment. |
| Leuprolide (e.g. Lupron®, Eligard®) Monograph: [Product Monograph Template - Standard] (hres.ca) | <ul style="list-style-type: none">Breast/chest feeding |
| Methotrexate Monograph: Microsoft Word - Methotrexate.apm.doc (hres.ca) | <ul style="list-style-type: none">Active infectionFatal errors have occurred when methotrexate was administered as a daily dose instead of a weekly dose. Verify the indication before administration; methotrexate is typically only administered daily for an oncology-related indication |
| Darbapoetin Alfa (Aranesp®) Monograph: aranesp_pm.pdf (amgen.ca) | <ul style="list-style-type: none">Do not shake; vigorous shaking may denature darbapoetin alfa, rendering it biologically inactive.Do not dilute or administer in conjunction with other drug solutions.Uncontrolled hypertension – blood pressure should be monitored at each appointment |

Long-Acting Antipsychotics

* For all long-acting antipsychotics, patients should avoid use of strong CYP3A4 and/or P-gp inducers (e.g. St. John's Wort, carbamazepine, rifampin), advise them to discuss with their provider before starting any supplement products

For all antipsychotics, the following contraindications should be considered:

- Caution should be exercised in concurrent use of other drugs that are known to prolong QTc including Class 1A (e.g., quinidine, procainamide) or Class III (e.g., amiodarone, sotalol) antiarrhythmic medications, antipsychotic medications (e.g., chlorpromazine, thioridazine), antibiotics (e.g., gatifloxacin, moxifloxacin), or any other class of medications known to prolong the QTc interval. Discuss with provider if uncertain.
- Any signs of neuroleptic malignant syndrome – hold medication and consult with provider
- Any signs of tardive dyskinesia – hold medication and consult with provider
- Any signs of oculogyric crisis – hold medication and consult with provider

* Extrapyramidal symptoms (EPS) are more common in typical antipsychotics vs atypical antipsychotics; however, all patients should be monitored for signs and symptoms of EPS.

[\(Extrapyramidal Symptoms - StatPearls - NCBI Bookshelf \(nih.gov\)\)](#)

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|---|---|
| <p>Paliperidone Palmitate (Invega® Sustenna/Invega® Trinza)</p> <p>Monograph: pdf.hres.ca/dpd_pm/00040788.PDF (Sustenna)</p> <p>Microsoft Word - 217315 Invega Trinza.APM.doc (hres.ca) (Trinza)</p> | <ul style="list-style-type: none"> • Hypersensitivity to risperidone • Invega Sustenna: greater than 6 weeks since last maintenance dose of Sustenna – consult monograph and provider <p>* Monitor patients for orthostatic hypotension, especially if taking antihypertensive medications.</p> |
| <p>Risperidone Prolonged-release (Risperdal® Consta)</p> <p>Monograph: pdf.hres.ca/dpd_pm/00040784.PDF</p> | <ul style="list-style-type: none"> • Hypersensitivity to paliperidone • Less than 2 weeks since last injection, dose should not exceed 50mg every two weeks <p>* Monitor patients for orthostatic hypotension, especially if taking antihypertensive medications.</p> |
| <p>Loxapine HCL (Loxapac® IM)</p> | <ul style="list-style-type: none"> • Acute alcohol, barbiturate, hypnotic or opiate intoxication • Patients taking concomitant metoclopramide |

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|---|---|
| <p>Monograph: [Product Monograph Template - Standard] (hres.ca)</p> | |
| <p>Methotrimeprazine HCL (Nozinan®)</p> <p>Monograph: Microsoft Word - Nozinan 107345 Oct 23 2006.apm.doc (hres.ca)</p> | <ul style="list-style-type: none"> • Hypersensitivity to phenothiazines • Acute alcohol, barbiturate, hypnotic or opiate intoxication • Narrow angle glaucoma <p>* Monitor patients for orthostatic hypotension</p> |
| <p>Flupentixol Decanoate (Fluanxol® Depot)</p> <p>Monograph: Microsoft Word - 209135 - FLUANXOL DEPOT - APM.doc (hres.ca)</p> | <ul style="list-style-type: none"> • Hypersensitivity to thioxanthenes • Severe constipation – consult with provider • Acute alcohol, barbiturate, or opiate intoxication • Narrow angle glaucoma |
| <p>Haloperidol Decanoate</p> <p>Monograph: pdf.hres.ca/dpd_pm/00025917.PDF</p> | <ul style="list-style-type: none"> • Nut allergy (the medication contains sesame oil) • Acute alcohol intoxication |
| <p>Zuclopenthixol Decanoate (Clopixol® Depot or Acuphase)</p> <p>Monograph: Clopixol Product Monograph English.pdf (lundbeck.com)</p> | <ul style="list-style-type: none"> • Hypersensitivity to thioxanthenes • Acute alcohol, barbiturate, or opiate intoxication • Narrow angle glaucoma <p>* Injection volumes exceeding 2mL should be distributed between 2 injection sites</p> |
| <p>Aripiprazole Extended-release (Abilify® Maintena)</p> <p>Monograph: Microsoft Word - Approved Product Monograph 1.docx (hres.ca)</p> | <ul style="list-style-type: none"> • Less than 26 days since last injection • Greater than 5 weeks since last injection – consult provider as the patient may require concomitant oral aripiprazole <p>* Monitor for signs of orthostatic hypotension</p> |

All patients receiving long-acting anti-psychotics should be monitored for the following:

- Metabolic concerns (e.g. diabetes, metabolic syndrome, hyperlipidemia, hyperglycemia, etc.)
- Cardiovascular concerns (e.g. ECG changes)

It is especially important to follow up with the patient's provider following administration of these medications to ensure appropriate follow-up occurs.

- * Please refer to individual product monographs for a full list of cautions, contraindications, and administration instructions.