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Intent/Purpose	To establish a policy governing the intravenous infusion therapy (IVIT) program and examination for the College of Naturopaths of Ontario (the College).	
Definitions	Candidate	Means any person who has submitted an examination application or is engaged in any examination or appeal, which leads to the recording and/or issue of a mark, grade or statement of result or performance by the College.
	General Class Certificate of Registration	As defined in section 1(1) of the Health Professions Procedural Code means a Certificate of Registration issued by the Registrar, which satisfies the General Class registration requirements as per section 5(1) of the Registration Regulation.
	Deferral	Means a granted postponement of a Candidate's attempt at one or more examinations.
	Examinations Accommodation	Means an adjustment to testing conditions, examination requirements or examination scheduling to address a Candidate's current needs arising from a disability, physical limitation or religious requirement.
	Examination Violation	Means a contravention of the College's Examination Policy, or Examination Rules of Conduct.
	Good Standing	Means the status assigned to a Member when they are current on dues and payments and are current with the registration requirements assigned to their Class of Registration.
	Intravenous Infusion Therapy (IVIT) Examination	Means a three-part examination approved by the Council of the College that includes written, calculation and demonstration components which test a Member's competencies to perform IVIT safely, competently and ethically.
	Compounding	Means reconstituting, diluting, mixing, preparing, packaging or labeling two or more prescribed substances specified in Table 5 of the General Regulation or drugs designated in Table 2 of the General Regulation to create a customized therapeutic product for the purposes of administration to the Member's patient by intravenous infusion therapy.
	Laminar Air Flow Hood	Means an enclosure in which air flow is directed so as to prevent contamination of sterile materials by airborne organisms or particles.
	Member	Means a person registered with the College as defined in section 1(1) of the Health Professions Procedural Code.
	Registration Committee	Means the statutory committee of the College responsible for all registration matters referred to it by the Registrar, and the imposition of terms, conditions or limitations on Certificates of Registration as

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deemed necessary in accordance with the Health Professions Procedural Code.

Registrar Means the individual appointed by the Council of the College pursuant to section 9(2) of the Health Professions Procedural Code which is Schedule II of the Regulated Health Professions Act, 1991 and who performs the duties assigned to that position under the Act, the Code, the Naturopathy Act, 2007 and the regulations made thereunder.

Registration Regulation Means Ontario Regulation 84/14 as amended from time to time.

General Regulation Means Ontario Regulation 168/15 as amended from time to time.

Standard of Practice for IVIT Means the standard as defined in section 5(5) of the General Regulation meaning the education and examination requirements necessary to demonstrate competency in the practise of IVIT.

General	Regulation	Determinations of whether a Member has met the Standard of Practice for IVIT, or whether an IVIT training course is approved, will be made in accordance with the General Regulation and this policy.
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Registration staff and Members of the College will act in accordance with this policy, the Examinations Policy and Examination Rules of Conduct, and any applicable procedural manuals.

Eligibility Requirements for the Practise of IVIT Any Member who wishes to perform the controlled act of administering intravenous infusion therapy must:

- Hold a General Class without any terms, conditions or limitations which restrict the Member from engaging in direct patient care;
- Be in Good Standing with the College;
- Have successfully completed an IVIT training course, approved by Council, that covers the core competencies for the practise of IVIT, and an examination in IVIT administered or approved by Council;
- Have met the Standard of Practice for Prescribing, as outlined in the General Regulation;
- Hold \$3 million per claim and \$3 million aggregate level in professional liability insurance in addition to the \$2 million coverage required of all Members holding a General Class Certificate of Registration, in accordance with section 19 of the College By-laws;
- Meet the requirements as set out in the Quality Assurance Program for Continuing Education related to IVIT.

Skills Atrophied Members holding an Inactive Class Certificate of Registration or a General Class Certificate of Registration with a Non-Clinical Term,

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Condition or Limitation (TCL) with the College for more than two (2) years are deemed to have atrophied in skill and no longer meet the Standard of Practice, and as such must complete the eligibility requirements as set out above, prior to being eligible to practise the controlled act of IVIT.

Core Competencies for the Practise of IVIT

Members performing intravenous infusion therapy possess the knowledge, skill and judgment in the following IVIT core competencies to ensure safe and effective practise:

- Clinical rationale, including knowledge of indications and contraindications related to the practise of IVIT, related science to the practise of IVIT, and the ability to assess when IVIT is or is not an appropriate treatment option;
- Patient assessment, including health history and allergies, physical examination and informed consent requirements, appropriate tests and labs, referral indicators, and the ability to interpret results, evaluate patient outcomes and assess patient response to IVIT treatment;
- Record keeping, including knowledge of documentation, charting and labeling requirements, appropriate IVIT related medical abbreviations, patient education documents and incident report filing requirements;
- Infection prevention and control, including knowledge of appropriate infection prevention and control practice requirements, aseptic and clean techniques, biohazard disposal requirements, personal protective equipment (PPE) and devices, and policies, regulations and provincial legislative requirements around infection control;
- IVIT substances, including knowledge of types of solutions and their clinical applications, appropriate routes of administration, storage and quality assurance measures, recommended dosages, potential allergy concerns, potential adverse reactions and appropriate treatment;
- IVIT complications and emergencies, including knowledge of how to assess and respond to common emergency situations and adverse reactions, how to use emergency equipment and crash cart supplies, how to administer emergency substances, cautions and contraindications, dosages and route of administration for emergency substances, Health Canada reporting requirements and knowledge of emergency referral indicators and procedures;
- IVIT equipment and devices, including knowledge of safe and proper use of IVIT equipment, storage and disposal requirements for IVIT equipment, how to use various types and gauges of needles and how to respond to common equipment issues;
- Sterile compounding for IVIT, including knowledge of how to use and maintain a laminar airflow hood, appropriate garbing, and appropriate aseptic technique;
- Anatomy and IVIT technique, including knowledge of body fluid composition, renal, cardiovascular, lymphatic, nervous,

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musculoskeletal, and endocrine systems, proper set-up, administration and termination requirements for IV drips and pushes, appropriate site selection based on patient anatomy, and appropriate measure to mitigate and manage patient harm.

IVIT Training Courses	Approval	In order for the Council to approve a course, and for that course to be recognized by the College for IVIT training, and qualification of Candidates for the IVIT examination, all course materials, including a detailed course outline, course references, and any documents or hand-outs that would be provided to the course participants must be submitted along with an application to the Registration Committee for review and recommendation to the Council.
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In reviewing an application for approval, the Registration Committee will base their decision on the following criteria:

1. Course material must be fully referenced;
2. Course is a minimum of 32 hours and covers all core competencies necessary for the practise of IVIT;
3. Course material must adhere to Ontario legislation and regulation, College policy, standards and regulation, and must align with other regulated health profession industry standards for IV infusion therapy, emergency response and infection prevention and control;
4. Substances covered in the course must cover all and only the substances outlined in the list of substances to be administered by injection in the General Regulation;
5. Labs covered in the course should a) reflect those laboratory tests relevant to the practise of IVIT, and b) be discussed in the context of those which are and those which are not authorized to the profession under the Laboratory and Specimen Collection Centre Licensing Act, the General Regulation and the Standards of the College;
6. All participants who successfully complete the course and course examination must be provided with a certificate of completion signed and dated by the course instructor
7. The course must contain six (6) to eight (8) hours of dedicated emergency procedures content, including one (1) hour of emergency procedures role play, which addresses the following:
 - How to assess and respond to: infiltrations and extravasations, phlebitis and thrombophlebitis, catheter related venous thrombosis, allergic and anaphylactic reactions, ecchymosis and hematoma, cardiac arrest, circulatory overload, syncope, speed shock, and IV line issues (e.g. line obstructions and tubing disconnects);
 - Prevention protocol, treatment options and emergency referral indicators for adverse reactions and emergency scenarios;

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- Discussion and demonstration of PPE and devices (including safety engineered needles), and emergency equipment (including oxygen tanks, oxygen masks, AED and pulse oximeters);
 - Documentation and reporting requirements around adverse reactions.
8. Course must have a practical component which:
- Requires participants to perform at least one (1) successful infusion with proper insertion and termination;
 - Requires participants to perform at least one (1) successful IVIT push with proper insertion and termination;
 - Requires participants to perform at least seven (7) angiocath insertions, and at least three (3) butterfly insertions;
 - Requires participants to compound a bag for IVIT using a laminar air flow hood; demonstrating proper infection control measures and garbing protocol;
 - Discusses and demonstrates sterile compounding for IVIT, including use and maintenance of a laminar air flow hood and proper aseptic technique;
 - Discusses and demonstrates the use of safety engineered needles (SENs) including both sliding and hinged varieties;
 - Demonstrates chevron technique and the use of transparent dressings (e.g. transparent adhesive dressings) for catheter securement, and discusses appropriate use of each.
9. Course must have a calculation requirement which requires participants to complete at least ten (10) osmolarity calculations (including the calculation of drip rate) in class, and complete at least twenty calculations prior to course completion.
10. Course instructors must be in Good Standing with their regulatory body.

Course Audits


The Registration Committee reserves the right to audit the course and all related content and references at its discretion, and at the cost of the course instructor.

Revocation of Course Approval

The College reserves the right to review and/or revoke course approval in the following instances:

- Failure to adhere to the training course requirements and the course outline approved by the Registration Committee;
- Unsafe or unsanitary practises occurring during the training course;
- Known plagiarism of course content;
- IVIT complaints and discipline related matters involving course instructors;

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- Failure of an inspection of the IVIT Premises where the course is offered under the auspices of the Inspection Program.

Course Updates Course material must be updated on an on-going basis to reflect applicable changes to College regulations, policies and standards, Ontario legislation and regulations, and to regulated health profession industry standards concerning IVIT, and such changes are subject to a review and approval by the Registration Committee.


Any updates must be submitted to the Registration Committee prior to implementation.

Course Changes Changes to course material and/or references must be reviewed and approved by the Registration Committee.

Any changes must be submitted to the Registration Committee prior to implementation.

IVIT Examination	General	In order to have been deemed to have met the Standard of Practice for IVIT, a Member must successfully complete an examination administered or approved by Council.
	Eligibility	<p>A Candidate is eligible to sit the College's IVIT examination provided they:</p> <ul style="list-style-type: none"> • Hold a General Class Certificate of Registration without any terms, conditions or limitations that restricts the Member from engaging in direct patient care and are in Good Standing with the College at the time of application for the IVIT exam, or; • Are a registered ND in a regulated Canadian jurisdiction, and; • Have successfully completed a Council approved Ontario IVIT training course no more than two (2) years prior to the date of the exam.
	Exam Registration	Exam registration priority will be given to Members of the College. Those seeking to sit the examination from other regulated Canadian jurisdictions will have exam spots confirmed following close of exam registration.
	Course Validity	Examination attempts must be made within two (2) years of the date of a Candidate's successful completion of the IVIT training course. A Candidate who has exceeded the two (2) year window from their date of successfully completing the IVIT training course will be required to re-take a Council approved Ontario IVIT training course prior to being eligible to re-attempt the IVIT examination.
	Examination Attempts	Three (3) initial attempts are provided to Candidates to successfully complete the IVIT examination.
		A Candidate, who has failed the IVIT examination for a second time, will be required to complete additional education or training as

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determined by a panel of the Registration Committee, in order to qualify to attempt the examination for a third time.

Window of Exam Ineligibility	A Candidate, who has failed the IVIT examination three (3) times will be ineligible to sit the examination again until the two (2) year anniversary from the date of their third unsuccessful examination attempt.
Final 2 Attempts	<p>Prior to being eligible to make a fourth attempt of the IVIT exam, a Candidate must successfully re-take a Council approved Ontario IVIT training course.</p> <p>For the purposes of public protection, Candidates who have made five unsuccessful exam attempts will not be granted any further access to re-sit the IVIT exam.</p>
Retakes	Candidates who have failed any one (1) component of the IVIT examination are deemed to have failed the entire examination and are required to re-take all components at any subsequent re-attempt of the examination.
Accommodations	To ensure Candidates are provided fair opportunity to sit a Council approved examination, the College will consider all accommodation requests received from any Candidate. Requests for accommodation will be managed in accordance with the College's Examinations Policy and Examination Rules of Conduct.
Deferrals	Any Candidate who is registered for an examination may seek a deferral. Requests for deferral will be managed in accordance with the College's Examinations Policy and Examination Rules of Conduct.
Examination Violations	All Candidates are required to comply with the Examination Rules of Conduct as established by the Registrar. Any allegation of an examinations violation will be handled in accordance with the College's Examinations Policy and Examination Rules of Conduct.
Passing Requirements	To pass the IVIT examination, the Candidate must score 75% on each component of the examination.

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