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	Act	Means the *Naturopathy Act, 2007.*
	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.
	Certificate of Registration	Means a document issued by the College, in either the General Class, emergency class or Inactive Class, which demonstrates to the public that the holder is a registrant of the College, registered in the class set out on the Certificate and identifies whether there are any terms, conditions, or limitations (TCLs) placed on the Certificate.
	Chief Executive Officer (CEO)	Means the individual appointed by the Council of the College pursuant to section 9(2) of the Code which is Schedule II of the RHPA and who performs the duties assigned to the position of Registrar under the RHPA, the Code, the Act and the regulations made thereunder.
	Code	Means the Health Professions Procedural Code, which is Schedule 2 to the RHPA.
	College	Means the College of Naturopaths of Ontario as established under the *Naturopathy Act, 2007* and governed by the RHPA.
	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 registrant's patient by intravenous infusion therapy
	Council	Means the Council of the College as established pursuant to section 6 of the Act.
	Emergency Class	Means a registrant authorized to practise in Ontario, who has met the registration requirements as set in section 5.1 of the Registration Regulation.
	General Class	Means a registrant authorized to practise in Ontario, who has met the registration requirements, as set out in section 5 of the Registration Regulation.
	General Regulation	Means Ontario Regulation 168/15.

	Good Standing	Means the status assigned to a registrant when they are current on dues and payments and are current with the registration requirements assigned to their class of registration.
	Inactive Class	Means a registrant not authorized to practise in Ontario, as set out in section 8 of the Registration Regulation.
	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 registrant's competencies to perform IVIT safely, competently and ethically.
	IVIT Procedures	Means administering IVIT and compounding for the purposes of administering for IVIT.
	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.
	Premises	Means any place where a registrant performs or may perform an IVIT procedure.
	Registration Committee	Means the statutory committee of the College responsible for all registration matters referred to it by the CEO. Panels of this statutory committee are responsible for setting plans of exam remediation and all registration matters as set out in the Code.
	Registrant	Means an individual as defined in section 1(1) of the Code.
	Registration Regulation	Means Ontario Regulation 84/14.
	RHPA	Means the *Regulated Health Professions Act, 1991*.
	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.
	Standard of Practice for Prescribing	Means the education and examination requirements necessary to demonstrate competency in the practise of prescribing as defined I section 9(5) of the General Regulation.
	TCL	Means a term, condition, or limitation (TCL) placed upon a certificate of registration which limits or restricts a registrant's activities within the practice of the profession.
General	Regulation	Determinations of whether a registrant 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.

Registration staff and registrants will act in accordance with this policy, the Examinations Policy and Examination Rules of Conduct, and any applicable procedural manuals.

Eligibility Requirements for Meeting the Standard of Practice for IVIT

To be deemed to have met the Standard of Practice for IVIT, and be permitted to perform IVIT procedures, registrants must:

- Have successfully completed an IVIT training course, approved by Council, that covers the core competencies for the practise of IVIT, and the IVIT examination, as set out in this policy.
- Have met the Standard of Practice for Prescribing as outlined in the Prescribing and Therapeutics Program & Examination Policy.
- Hold $3 million per claim and $3 million aggregate level in professional liability insurance in addition to the $2 million coverage required of all registrants holding a General Class Certificate of Registration, in accordance with section 19 of the College by-laws.
- Hold a General Class certificate of registration without any TCLs which restrict the registrant from engaging in direct patient care.
- Be in good standing with the College.
- Meet the requirements as set out in the Quality Assurance Program for Continuing Education related to IVIT.

Performance of IVIT Procedures

Registrants who have met the Standard of Practice for IVIT are expected to be actively practising IVIT to ensure currency of requisite skills.

IVIT procedures may only be performed in an IVIT premises registered with the College which has undergone an inspection and received an outcome of a pass or a pass with conditions.

Verifying Performance of IVIT

In instances where a registrant's declared practise information raises questions as to their maintaining currency through the performance of IVIT, the College at its discretion may request evidence of IVIT practise.

Evidence may include, but is not limited to:

- Letter of employment, including number of IVIT treatments provided per year.
- Confirmation of services provided, such as invoices, and/or letters from patients for whom IVIT treatments were provided;
- Patient records or case notes,

Skills Atrophied

Registrants who have not practised IVIT for more than two years, whether by virtue of non-practise or through holding an Inactive Class certificate of registration or a General Class certificate of registration with a non-clinical TCL, 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

Registrants practising IVIT possess the knowledge, skill, and judgment in the following 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, 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. 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 IVIT, 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 must be provided with a certificate of completion or similar proof of course completion issued by the course provider 7. The course must contain six to eight hours of dedicated emergency procedures content, including one 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. • 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 successful infusion with proper insertion and termination.
   - Requires participants to perform at least one successful IVIT push with proper insertion and termination.
   - Requires participants to perform at least seven angiocath insertions, and at least three 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 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 practices occurring during the training course.
- Known plagiarism of course content.
- IVIT complaints and discipline related matters involving course instructors.
- 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 registrant must successfully complete an IVIT examination administered or approved by Council.
	Eligibility	A candidate is eligible to sit the College's IVIT examination provided they: • hold a General Class certificate of registration without any TCLs that restricts the registrant 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 another regulated Canadian jurisdiction, and; • have successfully completed a Council approved Ontario IVIT training course no more than two years prior to the date of the exam.
	Exam Registration	Exam registration priority will be given to registrants. 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 years of the date of a candidate's successful completion of the IVIT training course. A candidate who has exceeded the two-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 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 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 times, will be ineligible to sit the examination again until the two-year anniversary from the date of their third unsuccessful examination attempt.
Final 2 Attempts	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. 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. Three initial attempts are provided to candidates to successfully complete the IVIT examination.
Retakes	Candidates who have failed any one 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.
Passing Requirements	To pass the IVIT examination, a candidate must score 75% on each component of the examination.
Window of Validity for Exam Results	Registrants who elect to complete the IVIT examination prior to meeting the Standard of Practice for Prescribing, must meet the Standard of Practice for Prescribing within two years of their having successfully completed the College's IVIT Exam in order to be deemed to have met the Standard of Practice for IVIT, or a subsequent IVIT course and the IVIT exam will be required to be undertaken again.