

Note to Readers: *In the event of any inconsistency between this document and the legislation that governs chiropractic and naturopathic practice in Nova Scotia, the legislation prevails.*

1. INTRODUCTION

The Nova Scotia Chiropractic and Naturopathic Regulator (NSCNR) is the regulatory authority for the practice of chiropractic and naturopathy in the Province of Nova Scotia.

The NSCNR serves and protects the public interest to advance ethical and competent chiropractic and naturopathic care in Nova Scotia.

This Standard of Practice establishes the minimum requirements for ND Registrants holding an active license with the NSCNR who also hold an Additional Practice Permit – Ozone and Oxidative Therapies and are therefore authorized to perform these Reserved Practices.

2. APPLICATION AND ADMINISTRATION

This Standard of Practice shall apply to all naturopathic doctors registered and holding an active naturopath license with the NSCNR (the “**ND Registrant**” or collectively the “**ND Registrants**”).

The administration and application of this Standard of Practice shall be the responsibility of the Registrar. Should the NSCNR become aware of any alleged breach or noncompliance with this Standard of Practice, it may take any action it considers appropriate, including but not limited to:

- a. contacting a ND Registrant to request the immediate remedy of any suspected breach or non-compliance;
- b. filing a formal complaint under the *Regulated Health Professions Act* regarding the suspected breach or non-compliance as professional misconduct; and/or
- c. immediate suspension or revocation of the ND Registrant’s Reserved Practice Permit.

3. OBJECTIVES

The objectives of this Standard of Practice are to uphold public interest and safety by:

- a) ensuring reserved practices of Ozone and Oxidative Therapies are performed only by competent and authorized ND Registrants;
- b) identifying the conditions under which ND Registrants may perform Ozone and Oxidative Therapies;

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- c) providing clear requirements for training, authorization, and performance of Ozone and Oxidative Therapy practices; and
- d) supporting safe, ethical, and evidence-informed care.

4. DEFINITIONS

These terms have the following meanings when used in this Standard of Practice:

Aseptic Technique means the infection prevention and handling practices used by the Registrant to prevent contamination when collecting, accessing, preparing, transferring, connecting, disconnecting, exposing, administering, reinfusing, re-administering, or otherwise handling blood, sterile products, sterile single-use equipment, ozone or oxidative agents, or related devices.

Board refers to the Board of the Nova Scotia Chiropractic and Naturopathic Regulator.

Injection Therapies are Reserved Practices that involve the administration of a substance into the body by penetrating the skin or a mucous membrane using a sterile needle or similar device other than by the intravenous route, including subcutaneous, intramuscular, intra-articular, and other injections into or around anatomical structures (e.g., ligaments, tendons, muscles, joints, or soft tissues), for diagnostic, therapeutic, preventive, or supportive purposes, and which may only be provided by an ND Registrant holding the applicable Reserved Practice Permit(s) in accordance with NSCNR authorization, applicable Standards of Practice, and infection prevention and control requirements.

Intravenous Therapy (IV Therapy) is a Reserved Practice that is a subset of injection therapies which involves the initiation, administration, monitoring, and termination of substances delivered via intravenous infusion for therapeutic benefit.

Major autohemotherapy means the extracorporeal exposure of a larger measured volume of a patient's withdrawn venous blood, typically approximately 100–200 mL, to a medical oxygen-ozone gas mixture using sterile single-use equipment, including sterile bags, tubing, syringes, connectors, or other related devices, followed by intravenous reinfusion of that blood to the same patient.

Major autohemotherapy must be performed using aseptic technique during all collection, access, transfer, ozone exposure, connection, disconnection, reinfusion, and related handling steps.

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Minor autohemotherapy means the extracorporeal exposure of a small measured volume of a patient's withdrawn venous blood, typically approximately 2–10 mL, to a medical oxygen-ozone gas mixture using sterile single-use equipment, including sterile syringes, needles, connectors, or other related devices, followed by re-administration of that blood to the same patient, most commonly by intramuscular injection.

Minor autohemotherapy must be performed using aseptic technique during all collection, access, transfer, ozone exposure, connection, disconnection, re-administration, and related handling steps.

ND Registrant means, for the purposes of this standard, a naturopathic doctor registered with the NSCNR and holding an active naturopath license.

Ozone and Oxidative Therapies are Reserved Practices that consist of therapeutic interventions involving ozone or other oxidative agents, including but not limited to ozone gas, hydrogen peroxide, and ultraviolet blood irradiation, delivered via authorized routes within naturopathic practice and which may only be provided by an ND Registrant holding the applicable Reserved Practice Permit(s).

Ozone Therapy

Means the therapeutic application of ozone via authorized routes, which may include intravenous, intra-articular, peri-articular, intradermal, intramuscular, subcutaneous, rectal, vaginal, or topical administration, and which may only be provided by an ND Registrant holding the applicable Reserved Practice Permit(s).

Professional Misconduct has the same meaning as set out in the *Regulated Health Professions Act* and includes failing to maintain the standards of practice.

Reserved Practice has the same meaning as set out in the *Chiropractic and Naturopathic Regulations* and means an activity, procedure or service within the scope of practice of naturopathy that:

- a. involves sufficient risk to the public, as determined by the Board;
- b. the Board requires licensed person to meet additional education, additional training or other requirements beyond an entry to practice level to engage in, and;
- c. a licensed person may engage in only with the approval of the registrar and may require a specific permit.



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Reserved Practice Permit means a permit issued by the NSCNR authorizing a Registrant to perform specified restricted activities upon successful completion of NSCNR-approved training and competency requirements. Reserved Practice Permits must be applied for and renewed annually in accordance with the requirements set out in the applicable Standard of Practice.

Sterile Single-Use Equipment means sterile bags, tubing, syringes, needles, connectors, containers, administration sets, or related devices that are intended for use with one patient during a single clinical encounter and are not reused, reprocessed, resterilized, or used to create practitioner-made or office-made inventory.

Substance has the same meaning as set out in the *Chiropractic and Naturopathic Regulations* and means anything, other than a drug, permitted by scope of practice legislation or bylaws, that is publicly available, and which may include botanical tinctures, botanical powders, herbals, extracts, base creams, ointments, vitamins, minerals, and amino acids.

5. RESERVED PRACTICE PERMIT - OZONE AND OXIDATIVE THERAPIES SCOPE OF AUTHORIZATION

- A. The Reserved Practice Permit - Ozone and Oxidative Therapies authorizes the therapeutic use of Ozone and Oxidative Therapies within the naturopathic scope of practice, using authorized routes of administration and techniques which may include:
- a) topical ozone applications;
 - b) intramuscular, subcutaneous, intra-articular, or peri-articular ozone injection;
 - c) minor autohemotherapy; and
 - d) other ozone or oxidative therapy applications as approved by the NSCNR.
- B. Prohibitions on Ozone and Oxidative Therapies:
- a) ND Registrants who do not hold a Reserved Practice Permit – Ozone and Oxidative Therapies **are prohibited** from performing Ozone or Oxidative therapies by any route of administration.
 - b) ND Registrants are prohibited from performing ozone or oxidative therapies by injection or intravenous administration unless they also hold the applicable Injection Therapies permit and IV authorization required for the procedure.

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- c) ND Registrants **may only** perform ozone and oxidative therapies if they hold an active naturopath license with the NSCNR **and** if they have been issued a Reserved Practice Permit – Ozone and Oxidative Therapies by the NSCNR.

6. STANDARDS OF PRACTICE

A. Qualifications for Permit

To be eligible for and maintain a Reserved Practice Permit - Ozone and Oxidative Therapies, an ND Registrant must:

- a) provide evidence acceptable to the Registrar of successful completion of one of the following:
 - i. Canadian Prescribing and Therapeutics Examination; or
 - ii. NSCNR Board-approved equivalent examination.

- b) have completed NSCNR-approved specific component training in the administration of Ozone and Oxidative Therapies;

- c) hold any additional Reserved Practice Permit or authorization required for the route of administration being performed, including:
 - i. **Reserved Practice Permit - Injection Therapies** issued by the NSCNR where ozone or oxidative therapies are administered by intradermal, subcutaneous, intramuscular, intra-articular, peri-articular, peripheral musculoskeletal, axial, or other injection route; and

 - ii. **Reserved Practice Permit – Injection Therapies with IV authorization** issued by the NSCNR where ozone or oxidative therapies involve intravenous administration, intravenous reinfusion, IV push, IV infusion, major autohemotherapy, or any other intravenous route;

- d) maintain current Advanced Emergency Life Support for Reserved Practice Permits as noted in the **NSCNR Emergency First Aid Standard**;

- e) have an emergency response protocol appropriate to the clinical setting and associated risk and in accordance with the **NSCNR Emergency Preparedness Standard of Practice**; and

f) provide evidence of professional liability protection/insurance in compliance with the **NSCNR Professional Liability Standard of Practice**. Coverage policies must provide professional liability insurance for entry-to-practice activities and any additional services authorized under an NSCNR-issued Additional Practice Permit. Where required by the insurer, specific additional practice activities must be explicitly identified in the policy

B. Training and Competency Requirements

ND Registrants must provide evidence of successful completion of NSCNR-approved specific component training relevant to Ozone and Oxidative Therapies (refer to Appendix A for pre-approved training), including, at minimum:

- a) a theoretical component addressing:
 - i. ozone chemistry and oxidative mechanisms of action;
 - ii. indications, contraindications, and patient selection;
 - iii. dosing, concentration, and volume considerations;
 - iv. authorized routes of administration and technique-specific risks;
 - v. infection prevention and control;
 - vi. informed consent and documentation requirements; and
 - vii. recognition and management of adverse reactions and complications.

- b) a practical component that includes:
 - i. hands-on training in approved ozone and oxidative therapy techniques;
 - ii. equipment operation, calibration, and safety;
 - iii. aseptic preparation, handling, and administration techniques, including the safe use of sterile single-use equipment, sterile products, blood-handling equipment, ozone or oxidative therapy equipment, and route-specific administration procedures as applicable;
 - iv. where autohemotherapy or other blood-involving procedures are performed, blood collection, transfer, ozone exposure, reinfusion or re-administration, biomedical waste handling, exposure response, and aseptic handling of sterile single-use equipment;
 - v. use of ozone generators, ultraviolet blood irradiation equipment, sterile single-use equipment, administration supplies, and related devices only in accordance with manufacturer instructions, Health Canada requirements and NSCNR Standards of Practice, as applicable; and
 - vi. direct skills assessment.

- c) training in emergency recognition and management, including:
 - i. vasovagal response and syncope;

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- ii. oxidative therapy–specific adverse reactions;
- iii. infusion- or injection-related complications; and
- iv. emergency response appropriate to the clinical setting.

C. Ongoing Competence and Maintenance of Permit

ND Registrants who are issued a Reserved Practice Permit - Ozone and Oxidative Therapies are required to renew their permit on an annual basis. At the time of renewal, ND Registrants will be required to provide proof of the following to the NSCNR:

- a) completion of a minimum of **four (4) hours** of NSCNR-approved ozone or oxidative therapy specific continuing education (may be completed in-person or online) within the ND Registrant’s prior Continuing Education cycle. Online learning activities must include an evaluative component (e.g. Q&A session, written quiz, etc.) to confirm successful completion;
- b) renewal of any **other Reserved Practice Permits required** for method of administration;
- c) evidence of professional liability protection/insurance as required by the **NSCNR Professional Liability Standard**, which provides coverage for entry-to-practice activities and any additional services authorized under an NSCNR-issued Additional Practice Permit. Where required by the insurer, specific additional practice activities must be explicitly identified in the policy;
- d) current Advanced Emergency Life Support certification for Reserved Practice Permits as noted in the **NSCNR Emergency First Aid Standard**;
- e) an emergency response protocol appropriate to the clinical setting and associated risk and in accordance with the **NSCNR Emergency Preparedness Standard**; and
- f) completion of all continuing professional development activities mandated by the NSCNR since the ND Registrant’s last renewal in ozone and oxidative therapy techniques and related emergency management.

D. Quality Assurance

- a) The NSCNR may at any time request that a ND Registrant submit training or education records, appointment calendars, patient records, emergency protocols, and any other documentation required to demonstrate continued compliance with this Standard of Practice. Failure to do so may result in suspension or revocation of the Registrant’s Reserved Practice Permit

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- b) The NSCNR may conduct inspections at any time as set out in the *Chiropractic and Naturopathy Regulations* and Nova Scotia Chiropractic and Naturopathic Regulator Bylaws.
- c) Failure to maintain continued competence or required level of emergency first aid certification, submit records when requested, or meet any permit maintenance requirements may result in immediate suspension or revocation of the Registrant's Reserved Practice Permit and authorization to perform associated activities.
- d) The NSCNR may refuse to issue or may impose conditions on a Reserved Practice Permit-Ozone and Oxidative Therapies if the ND Registrant does not meet the requirements set out in this Standard of Practice or does not demonstrate sufficient knowledge, skill, judgment, or readiness to practise safely.

E. General Standards

- a) A ND Registrant authorized to perform Ozone and Oxidative Therapies must:
 - i. perform Ozone and Oxidative Therapies only within the naturopathic scope of practice;
 - ii. ensure all injectable substances, solutions, and devices are authorized for use in naturopathic practice and comply with applicable NSCNR and Health Canada requirements;
 - iii. comply with **NSCNR Standard of Practice - Immediate-use Compounding**;
 - iv. obtain and document informed consent in accordance with the **NSCNR Standard of Practice: Informed Consent**;
 - v. maintain accurate, specific, and contemporaneous records of all aspects of ozone and oxidative therapies consistent with the NSCNR Standard of Practice: Patient Record Management, including but not limited to:
 - (a) clinical indication, relevant contraindications, and confirmation of informed consent;
 - (b) ozone or oxidative therapy provided;
 - (c) route of administration;
 - (d) solution, substance, gas concentration, dose, volume, exposure parameters, and lot/expiry information where applicable;
 - (e) injection site and technique, where applicable;



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- (f) equipment or device used, including lot/expiry where applicable;
- (g) patient response, monitoring, adverse events, complications, and actions taken.
- vi. For autohemotherapy or other blood-involving ozone or oxidative therapies, the patient record must also include, where applicable:
 - (a) volume of blood withdrawn;
 - (b) ozone concentration and total ozone dose or exposure parameters, as applicable;
 - (c) method and route of reinfusion or re-administration;
 - (d) equipment or device used, including lot/expiry where applicable; **and**
 - (e) any complications, exposure incidents, adverse reactions, and actions taken.
- vii. use aseptic technique and infection prevention and control practices appropriate to the ozone or oxidative therapy being performed, including during blood collection, access, transfer, ozone exposure, connection, disconnection, reinfusion, re-administration, and disposal, and use sterile single-use equipment where blood, injection, or intravenous administration is involved
- viii. ensure that each ozone or oxidative therapy performed aligns with the ND Registrant's individual training, competence, and authorized permit area;
- ix. ensure that patients receiving treatment are appropriately monitored with the Registrant available on-site for immediate assistance; and
- x. where the ND Registrant practises in a shared or multi-professional setting, ensure their ozone and oxidative therapies practice complies with this Standard and that their procedures, documentation, and emergency protocols meet NSCNR requirements independent of other providers' practices or protocols

7. EXEMPTIONS

- a) During the transitional licensure period, ND Registrants who are authorized to perform ozone and oxidative therapies in another regulated Canadian jurisdiction at the time the NSCNR is established **may continue to practise these therapies on a temporary basis, consistent with their existing authorization.**
 - a. **This transitional authorization period applies until midnight August 24, 2026.**
 - b. During this transitional authorization period ND Registrants must:
 - i. be able to provide, upon request of the NSCNR, evidence of current authorization to perform similar injections or IV therapy in another Canadian regulated jurisdiction at time of the NSCNR effective date (May 27, 2026);



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- ii. comply with all compounding and aseptic technique requirements of the NSCNR;
 - iii. carry Professional Liability Insurance of \$5,000,000.00;
 - iv. only provide services within the scope of the permit or authorization issued by the preceding jurisdiction; and
 - v. only provide services that were provided by the Registrant prior to the effective date of the NSCNR (May 27, 2026).
- c. ND Registrants are prohibited from initiating any new ozone or oxidative therapy services during this transitional authorization period unless they have been issued the applicable NSCNR Reserved Practice Permit for Ozone and Oxidative Therapies.
- d. ND Registrants are prohibited from providing injection route of administration ozone therapies during this transitional authorization period without a Reserved Practice Permit in Injection Therapies or compliance with the transitional authorization for that Reserved Practice Permit.
- e. ND Registrants are prohibited from providing IV route of administration ozone therapies during this transitional authorization without a Reserved Practice Permit in Injection Therapies+IV or compliance with the transitional authorization for that NSCNR Reserved Practice Permit.
- f. ND Registrants may apply for and be issued a NSCNR Reserved Practice Permit under the provisions of this standard of practice at any time during the transitional authorization period.
- g. A Reserved Practice Permit – Ozone and Oxidative Therapies is required to continue the provision of any Ozone and Oxidative Therapies beyond August 27, 2026.
- h. ND Registrants who do not hold a NSCNR Reserved Practice Permit – Ozone and Oxidative Therapies are prohibited from providing any ozone or oxidative therapies without a Reserved Practice Permit - Ozone and Oxidative Therapies beyond August 24, 2026 and must discontinue all patient care pertaining to these Reserved Practices.
- b) For the purposes of transition to the Nova Scotia Chiropractic and Naturopathic Regulator, applicants who have successfully completed NPLEX Part II – Clinical Elective Examination (Elective Pharmacology) **prior to May 27, 2026** will be considered compliant with the requirement of examination in 6(A)(a) of this Standard of Practice.
- c) Notwithstanding the above, ND Registrants are permitted to perform Ozone and Oxidative Therapies **while participating in a NSCNR-approved specific component training program or associated preceptorship** provided they:
- i. provide Ozone and Oxidative Therapies only within the boundaries of personal competency and specific component training completed to date;
 - ii. provide Ozone and Oxidative Therapies within the specific route of administration being taught in the specific component training program;

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- iii. hold any applicable NSCNR Injection Therapy Reserved Practice Permit or IV authorization for the route of administration of Ozone and Oxidative Therapies being taught in the specific component training; and
 - iv. inform and obtain written consent of the patients under care that they have enrolled and are participating in, but have not yet completed, the specific component training program for the approved Reserved Practice Permit sought.
- d) Recognized instructors of a NSCNR approved specific component training program with NSCNR-approved credentials are permitted to provide Ozone and Oxidative therapies only as part of the curriculum of the approved program.

8. RESTRICTIONS

A Reserved Practice Permit for Ozone and Oxidative Therapies does **not** authorize a ND Registrant to:

- a) perform Ozone or Oxidative Therapies outside the Registrant's individual competence, training, or authorized scope of practice, including any limitations or conditions imposed by the NSCNR;
- b) delegate any aspect of Ozone and Oxidative therapies, including preparation, administration, monitoring, or post-treatment care, to another individual, unless authorized by the NSCNR to do so as part of a Reserved Practice preceptorship;
- c) perform Ozone or Oxidative Therapies using routes of administration for which the ND Registrant does not hold the required Reserved Practice Permit(s) or authorization, including but not limited to:
 - i. injection-based ozone or oxidative therapies without the applicable Reserved Practice Permit - Injection Therapies category;
 - ii. intravenous ozone or oxidative therapies, including major autohemotherapy, intravenous reinfusion, IV push, or IV infusion, without IV authorization; or
 - iii. any peripheral, axial, intra-articular, peri-articular, intramuscular, subcutaneous, intradermal, rectal, vaginal, topical, or other route outside the Registrant's authorization, training, or individual competence;
- d) perform Ozone and Oxidative Therapies for cosmetic or non-therapeutic purposes

9. LEGISLATIVE CONTEXT

[Regulated Health Professions Act \(2023\)](#)

[Regulated Health Professions General Regulations](#)

Regulations Respecting Chiropractic and Naturopathy

Nova Scotia Chiropractic and Naturopathic Regulator Bylaws



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10. ADDITIONAL RELEVANT STANDARDS OF PRACTICE:

Registrants are advised that all NSCNR Standards of Practice apply, including but not limited to, specific application of:

- Patient Record Management
- Professional Liability
- Informed Consent
- Emergency First Aid
- Emergency Readiness
- Infectious Disease Prevention and Control
- Immediate Use Compounding
- Reserved Practice Permit – Injection Therapies

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APPENDIX A: NSCNR Approved Specific Component Training

Course Name	Teacher / Organization	Reserved Permit Applicable To	In Person Required	Approval
Comprehensive Foundations in Ozone Therapy	West Coast Center for Regenerative Medicine	Ozone and Oxidative Therapies	Yes	Yes
Ozone Therapy Certification Course	Frank Shallenberg	Ozone and Oxidative Therapies	Yes	Yes
Ozone Therapy Certification Course	Dr. Bryan Rade	Ozone and Oxidative Therapies	Yes	Yes
Yes* = Accepted only for applications by previous permit holders in another Canadian regulated jurisdiction with an active and current permit as of May 27, 2026.				
Oxidative Therapies	NaturoMedic	Ozone and Oxidative Therapies	Yes	Yes*
Ozone Applications and Strategies for Successful Implementation	H.E.R.O.'S Courses (Dr. Brendan Cochran & Dr. Andy Belanger) –	Ozone and Oxidative Therapies	Yes	Yes*
Oxidative Medicine Certification Course	BKS Courses (Dr. Beverly Huang, Dr. Shane Johnson & Dr. Kin Leung)	Ozone and Oxidative Therapies	Yes	Yes*