

Adult Long-Term Ventilation Fellowship

Clinical Fellowship | Division of Respiriology

Fellowship Title	Long-Term Ventilation Fellowship
Division	Respirology
Fellowship Type	Clinical
Fellowship Director	Dr. Anu Tandon
Duration	1 year
Application Period	October 10, 2026-November 15,2026
Anticipated Start Date(s)	July 1 preferred
Number of position(s) per year	1

Description

Fellowship Description

The proposed Long-Term Ventilation Fellowship is a predominantly clinical, advanced training program focused on the assessment and longitudinal management of adults with chronic respiratory failure requiring non-invasive or invasive long-term ventilatory support. The primary emphasis is on Long-Term Ventilation (LTV), complemented by structured training in sleep medicine and sleep-related hypoventilation.

The fellowship will provide supervised experience across inpatient and ambulatory settings, including patients with neuromuscular disease (particularly ALS), chest-wall disorders, obesity hypoventilation syndrome and COPD. Training will emphasize evidence-based selection for ventilatory support, ventilator initiation and titration, interpretation of physiological and device data, airway-clearance management, and coordinated transition to home care. The fellowship will also incorporate sites specializing in invasive ventilation and pediatric long-term ventilation.

Fellowship Objectives

1. Advanced expertise in Long-Term Ventilation and chronic respiratory failure

Develop comprehensive competency in evaluating and longitudinally managing chronic ventilatory failure, including indications for NIV, timing of initiation, monitoring treatment response, and recognition of progression requiring daytime or invasive ventilatory support.

2. Initiation, titration and troubleshooting of home mechanical ventilation

Gain hands-on experience with bilevel and advanced pressure- and volume-targeted modes, backup rates, mouthpiece ventilation and invasive home ventilation where appropriate. Develop proficiency in ventilator and interface selection, device downloads, nocturnal oximetry and transcutaneous CO₂ monitoring, and management of leaks, asynchrony and inadequate ventilation.

3. Comprehensive respiratory care and transition planning

Integrate LTV with assessment of respiratory muscle weakness, cough impairment and secretion management. Develop expertise in lung-volume recruitment, manually assisted cough and mechanical insufflation–exsufflation, and in multidisciplinary care, caregiver training, acute deterioration management and safe hospital-to-home transitions.

4. Sleep-related hypoventilation and ventilatory support

Develop competency in evaluating and treating sleep-related hypoventilation and sleep-disordered breathing in patients with chronic respiratory disease, including interpretation of polysomnography, oximetry and capnography, and selection and titration of CPAP, bilevel PAP and advanced modes.

5. Complementary training toward Ontario sleep-medicine practice

Complete a structured program of supervised sleep-medicine training aligned with the applicable CPSO pathway, including documented exposure to polysomnography scoring and interpretation, PAP titrations, MSLT/MWT and assessment of the broader spectrum of sleep disorders. The program and required experience must be reviewed against current CPSO requirements.

Clinical Training and Academic Activities

The proposed curriculum will include supervised inpatient consultations, ambulatory LTV clinics, ventilator initiation and follow-up, sleep-laboratory experience, multidisciplinary case discussions and relevant educational rounds. Trainees will have the opportunity to gain exposure to other sites in Toronto with a focus on invasive ventilation as well as pediatric long term ventilation clinics. Fellows will participate in teaching and quality-improvement or scholarly activity, with protected academic time. There is an expectation of project development and presentation at the annual Respiriology Research Day and abstract submission for a national meeting.

Funding

Fully funded at the level of a PGY6 University of Toronto salary

Application

The application process requires submission of a personal letter, curriculum vitae (CV), three letters of reference, and an interview. The personal letter should describe the applicant's interest in Long-Term Ventilation and explain how the fellowship aligns with their career goals and professional development.

Applicants are also required to submit two proposed project ideas they would be interested in pursuing during the fellowship. Each proposal should include a brief description of the project, its objectives, and its potential contribution to advancing the field of Long-Term Ventilation.

Preference will be given to applicants who demonstrate thoughtful, well-developed project proposals that reflect a strong interest in the field and the potential for meaningful academic or clinical impact.

Contact Information

Contact Name: Dr. Anu Tandon

Role: Fellowship Director and Supervisor

Telephone: 416-480-4427

E-mail: anu.tandon@sunnybrook.ca

