

POSITION DESCRIPTION

1. **PERFUSIONNISTE CLINIQUE**

2287

Sub-service: **Perfusion Service**

Sub-service number: **52408 (2408)**

Directorate: **Multidisciplinary Services**

Position number: **2287-Generic**

Hospital site where the position is budgeted: **Glen - Royal Victoria Hospital**

2. **JOB SUMMARY**

Under the general supervision of the Clinical Perfusion Coordinator, adult sites, and the Director of Multidisciplinary Services, adult sites the incumbent:

- 90% Delivers, to adult and paediatric patients of the MUHC, general cardiovascular, cardiopulmonary, circulatory and respiratory mechanical assistance activities (extra corporeal membrane oxygenation, extra corporeal life support, intra-aortic balloon pump, left-right-bilateral ventricular assist device) along with auto transfusion and rapid transfusion techniques;
- 5% Participates in the development of clinical perfusion guidelines and standards and verifies their validity with the current literature;
- 5% Participates in teaching as well as various projects and research activities within the perfusion and the Cardiac Surgery Division.

3. **JOB OUTLINE (Ministry # 2287)**

Personne qui prend en charge les fonctions cardio-circulatoires et cardio-pulmonaires du patient à l'aide d'appareils de circulation extracorporelle lors de l'intervention chirurgicale ou d'une assistance cardiaque afin d'assurer le maintien des fonctions physiologiques. Elle procède à la mise en marche, à la surveillance, au maintien, au transport, au sevrage et à l'arrêt des supports circulatoires. Elle assemble et organise le circuit extracorporel. Elle effectue toutes tâches connexes au bon fonctionnement de son secteur d'activités.

Doit détenir un certificat ou un diplôme d'études supérieures spécialisées (D.E.S.S.) en perfusion extracorporelle.

Cet emploi comprend également toute personne qui répond aux exigences du Règlement sur les activités professionnelles pouvant être exercées en perfusion clinique.

4. **GENERAL DUTIES**

- Works with state of the art Heart-Lung equipment and integrated circuitry;
- Responsible for the set-up, operation and monitoring of the intra-aortic balloon counterpulsation devices;
- Management of the Medistim system;
- Responsible for the set-up and management of the LAFA system;

- Operates blood salvaging devices for general surgery, orthopaedic, trauma, cardiac and neuro-surgical cases; this will amount to over 1000 cell savers per year;
- Operates blood gas analysis equipment in the operating room setting;
- Responsible for the management of patients on a variety of different Ventricular Assist Devices;
- Works in conjunction with multi-disciplinary teams across the sites: ICU, CCU, Cardiac Catherization Labs, Operating Rooms, Transplant Clinics and Emergency Departments;
- Actively pursues research and acquisition of the latest evidence as part of her/his clinical practice.

5. SPECIFIC DUTIES

- Determines, selects, assembles, calibrates and cleans general perfusion equipment and blood salvage equipment (cardiopulmonary bypass, extra corporeal membrane oxygenation, extra corporeal life support, intra-aortic balloon pump, left-right-bilateral ventricular assist device, auto transfusion devices, etc.) according to the established institutional protocols and guidelines;
- Initiates, maintains and terminates cardiopulmonary bypass and ancillary equipment;
- Maintains adequate extra corporeal physiology of neonatal, paediatric, adolescent and adult patients requiring assisted circulatory support;
- Administers solutions, drugs, volatile anaesthetic drugs and blood products under medical supervision, according to the established institutional protocols and guidelines;
- Transports patients on mechanical circulatory support within the hospital;
- Transports patients on mechanical circulatory support outside the hospital;
- Records all data related to the procedures and techniques to the perfusion record;
- Adjusts level of extra corporeal circulation and ancillary equipment;
- Monitors supplies, equipment and replenishes stocks as required;
- Participates in data collection and database maintenance;
- Maintains patient care standards and professional disciplines;
- Facilitates the monitoring and evaluation of patient care in professional practice designation;
- Participates in the development of patient care, clinical perfusion guidelines/standards and verifies their validity with the current research literature;
- Participates in orientation of new professional staff to professional practice;
- Participates in the evaluation of patient inclusion criteria for paediatric cardiac surgery, mechanical circulatory support and auto transfusion technology when required;
- Promotes multidisciplinary patient care team involvement in patient care;
- Promotes a patient-centred approach in patient care;
- Collaborates with the professionals, the multidisciplinary team and the Chief of Cardiac Surgery Division in identifying the need for prevention programs in given clinical practice areas;
- Ensures optimal patient care coverage and determines with the Clinical Perfusion Coordinator, adult sites, and the Chief of Cardiac Surgery, the priority areas at all times;
- Participates in cardiology/cardiovascular surgery rounds;
- Participates in reviews and development of quality standards for Clinical Perfusion, including the professional practice area designations;
- Participates in reviews of accreditation standards;
- Participates in the professional students programs;
- Informs Clinical Perfusion Coordinator, adult sites, of the need to take a professional course and submits a plan;
- Participates in and presents to a local, national or international Perfusion Scientific meeting;
- Keeps informed of new technological developments in Cardiovascular Perfusion, mechanical circulatory support and auto transfusion areas;

- Facilitates the identification of clinical research projects in professional practice designation;
- Participates in the publication and presentation of clinical research and program evaluation findings where appropriate;
- Participates in clinical and non-clinical research projects relevant to Cardiovascular Surgery, Clinical Perfusion;
- Maintains the necessary relationships and communications with counterparts in the MUHC and other institutions as necessary;
- Collaborates with the Clinical Perfusion Coordinator, adult sites, Operating Room Nurse Manager, the Associate Director of Perioperative Services and Program Support to ensure an efficient and effective departmental administrative functioning;
- Participates in Departmental committees, Professional Committees and/or Task Forces as appropriate;
- Participates in the professional and departmental staff meetings;
- Participates in the evaluation of equipment specific to the professional discipline and ensures development of equipment safety standards;
- Attends the team meetings in the professional practice designation.

6. STANDARDS of PERFORMANCE

- Assists the Clinical Perfusion Coordinator, adult sites, to keep the department within budget
- Ability to work under stress, short notices and deadlines
- Ability to work long hours
- Dedication to perfection and excellence in all endeavors
- Identifies his/her professional strengths and weaknesses and establishes an action plan in collaboration with the Clinical Perfusion Coordinator, adult sites

Secure environment

- Identifies and participates in the elimination of hazardous situations and reports all defective materials, equipment or risk factors
- Contributes to maintaining a clean and tidy workplace by respecting organizational policies
- Complies with infection control practices to prevent the transmission of disease
- Follows established policies, procedures and protocols to ensure and maintain a secure environment for patients, personnel and visitors
- Completes an incident/accident report form for patient/visitor related events or an Occupational Health and Safety form for employee related events and submits it to his/her immediate supervisor

7. SCOPE of RESPONSIBILITIES

7.1 Decision making:

- Ensures that procedures, guidelines and policies are followed
- Ensures that rules, guidelines and legal requirements are enforced
- Adheres to hospital and professional code of ethics
- Participates in continuous quality control of various perfusion equipment

7.2 Communications/contacts:

Internal:

- Consults the attending physician regarding patient care
- Communicates with physicians, nurses and multidisciplinary professionals

External:

- Communicates with other clinical perfusionists from other hospitals

- Communicates with patients, parents, family members, professional organisations (if designated), and external professional departments

7.3 Information and data on the administrative unit:

- Approximately 1100 cardiac cases and 1000 cell saving procedures performed each year (MCH, MGH, RVH)
- Auto transfusions
- Approximately 15 Extra corporeal life supports MCH and RVH

7.4 Supervision received:

Direct:

- The Director of Multidisciplinary Services, adult sites
- Clinical Perfusion Coordinator, adult sites

7.5 Supervision exercised:

- Exercises active direction over clinical perfusion students
- Exercises active direction of new staff while in the orientation/training phase

7.6 Number of employees supervised (FTE):

- Not applicable

7.7 Working conditions:

- Permanent full time positions
- 35 hours/week and/or Compressed work week
- 7 hours/day and/or 10.5hours/day and/or 12.0hours/day - variable schedule
- Regular on-call scheduling: 4 to 12 to 16 hours/day weekdays and 24 hours/day weekend days and Statutory Holidays. Additional 12 hours ECMO calls when needed
- Rotation of hours in both the adult and pediatric sites at the Glen
- Available for continuous coverage (24 hours/day, 7 days/week) on a rotational basis
- Ability to work and quickly adapt to other MUHC clinical sites as required by service
- Main physical areas include the Operating Room, Intensive Care Unit, Catherization Lab`, Critical Care Unit, Transplant Clinic and Perfusion Office
- Union: FIQ

8. QUALIFICATIONS

8.1 Educational:

- Must hold a certificate or Diplôme d'études supérieures spécialisées (DESS) in Extracorporeal Perfusion from l'Université de Montréal
- This job title also includes any person who meets the requirements of the Regulation respecting the professional activities that may be engaged in clinical perfusion
- Current certification of The Canadian Society of Clinical Perfusion (C.S.C.P.) is mandatory
- Current certification of the American Board of Cardiovascular Perfusion (ABCP) is accepted pending Canadian certification

8.2 Work experience:

- Adult and/or Paediatric experience is preferable

8.3 Other:

- French and English, spoken and written
- Good interpersonal and communication skills
- Leadership skills
- Ability to work effectively as a team member
- Demonstrates the ability to work under stressful dynamic conditions
- Conflict resolution skills
- Knowledge of computer software applications; such as; Word, Excel, PowerPoint

9. SIGNATURES

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