

DIVISION OF PLASTIC SURGERY

Vision Statement for the Division of Plastic Surgery, St Michael's Hospital.

The mandate of the Division of Plastic Surgery in St. Michael's Hospital is to provide excellence in clinical care, research and teaching in reconstructive plastic surgery. As a fully affiliated teaching hospital within the University of Toronto we provide plastic surgical training for Residents, Medical Students and Postgraduate Fellows. We are involved in Post-graduate training programs of other surgical and medical disciplines as well as are involved in research initiatives to further improve patient care.

At St. Michael's Hospital we are integrated into the programmatic structure within the institution. Our primary program is the Mobility Program. We are also an important part of Perioperative Services as well as Trauma Programs. We have also to a lesser degree been important contributors to the Inner City Health, Vascular and Diabetic programs.

Our clinical activity in Plastic Surgery emphasizes these areas. We provide tertiary specialized levels of care for traumatic injuries of the soft tissue and skeleton particularly involving the face and the extremities. We are considered to be leaders in the management of various soft tissue problems of traumatic, vascular as well as neoplastic origin. We provide reconstructive surgical expertise in a variety of anatomical areas utilizing state of the art equipment and technique.

Plastic surgery is a specialty where we apply principles of reconstruction to different anatomical regions. In the maxillofacial area we participate in the trauma program providing care and treatment of maxillofacial trauma which includes lacerations and underlying fractures. The new techniques of open reduction internal fixation utilizing plates and screws as well as new prosthetic materials allow us to restore the injured patient to his pre-accident functional status and appearance in many circumstances. In the extremities, especially the hand, we provide soft tissue and skeletal reconstruction utilizing microsurgery as well as skeletal fixation with implantable materials such as plate and screws.

Breast surgery including post mastectomy breast reconstruction is another area of clinical emphasis. Techniques have evolved with improvements in prosthetic as well as tissue transplant techniques. Tumors involving the skin and soft tissues are often treated to both minimize scarring while providing optimal function.

In addition we provide microsurgical expertise involving the reattachment of amputation parts when necessary as well as the transfer of tissues to areas particularly in the hand, breast and lower extremity for reconstruction. In the lower extremity working in conjunction with other specialties we provide expertise in the repair of traumatic as well as acquired wounds in particular. Once again utilizing microvascular techniques we are able to transfer tissues in particular as well as provide for local reconstructive options when this is possible.

The formation of a wound care team which provides services to all programs within the hospital in the management of complex wounds has been a recent initiative and is a primary focus of our research activity at the present time. Wounds related to trauma, vascular disease, diabetes and pressure sore are evaluated in a multidisciplinary setting and recommendations are made for management primarily on an outpatient basis. In certain situations surgical intervention can offer significant benefit and in this area we have the expertise to provide state of the art options in care. In addition, we are introducing and evaluating new technologies in wound management. Vacuum Assisted Wound Closure, new techniques of wound closure as well as modalities to enhance wound management are being initiated in patient care.

Our vision is to further develop and advance the care of patients in these various areas to optimize the result facilitating their return to a normal state as possible both from the point of view of function as well as minimizing deformity.

Resident Information

Welcome to the Plastic Surgical Service at St. Michael's Hospital. During your time with us we propose several general goals as well as outline objectives specific to the experience at St Michael's. At St. Michael's clinical activity has a broad practice spectrum with a specific emphasis in trauma, upper extremity and emergency care. Interaction with other medical services is encouraged. Graded responsibility is appropriate to the proficiency of the trainee.

Goals

1. To further develop your
 - knowledge base
 - clinical skills
 - technical abilities
 - research ability

in Plastic Surgery
2. To develop your effectiveness as a physician e.g.judgment, professionalism, ethics

Objectives

To develop a detailed working knowledge (assessment & management) of

1. Wound healing, Infections and Pressure Sores
2. Wound Reconstruction - Skin Grafts, Local Flaps, Free Flaps
3. Skin Lesions - benign and malignant
4. Craniomaxillofacial Injuries
5. Upper Extremity - Hand Examination, Nerve and Tendon Injuries, Fractures, Peripheral Nerve Compression, Tendon Transfers, Dupuytren's Disease
6. Reconstructive Breast Surgery
7. Common Aesthetic Surgical Procedures
8. Lower Extremity Trauma and Reconstruction

GENERAL INFORMATION:

The following is some basic information regarding the Plastic Surgery Service.

1. EDUCATIONAL ACTIVITIES

Bi-weekly (Monday morning at 0730) formal rounds are held. A suggested list of topics is the areas of emphasis enclosed. It is hoped these will be incorporated into current clinical cases. A 50 minute presentation is appropriate.

Every month, there will be Grand Surgical Rounds, interhospital plastic surgical and combined programmatic rounds.

An area of clinical interest is wound healing. Multidisciplinary wound rounds are held once a week.

Wednesday 0700-0800 are upper extremity rounds which we also attend. Occasionally we will present. This is organized with the Orthopaedic Service.

Every morning 0700, a walk around round with assessment of patients is held.

2. RESEARCH ACTIVITIES

Research is an essential part of academic surgery and is heavily encouraged. There are numerous opportunities available. Clinical research is ongoing particularly related to wound healing, outcomes following new therapies and patient satisfaction. More basic science projects include flap monitoring diagnostic imaging and wound healing. Funds are available for special projects.

Clinical Research is encouraged. If you have any area of interest please discuss these with the surgical staff.

3. CLINICS

Clinics are an integral part of our rotation. At least one day a week should be spent in the clinic.

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| Monday | 0900 - 12:00 | Wound & Plastic Surgery |
| Tuesday | 0900 - 1200 | Procedures |
| Wednesday | 0900 - 1200 | Hand |
| Wednesday | 13:00 - 15:30 | Plastics |
| Thursday | 0900 - 1530 | Procedures |
| Friday | 08:30 - 13:00 | Plastic Surgery |

4. OPERATING ROOM SCHEDULE

MONDAY
TUESDAY
THURSDAY
FRIDAY

At least one member of the house staff is expected to assist in the operating room, although it is realized that this will not be possible at all times.

5. Pre-admission Clinic

Preoperative assessment is carried out in the preadmission clinic. All elective surgery needs to be booked at least 1 week in advance.

Quality Assurance

You are encouraged to contribute to our ongoing efforts to improve our quality of care. Please contact the staff with any concern, suggestion for improvements. A morbidity & mortality round is suggested every 3 months to review complications.

STAFF

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Topics of emphasis for evaluation and teaching:

- a. Assessment of trauma patients
- b. Diagnosis and treatment of hand trauma
- c. Diagnosis and treatment of common skin lesions
- d. Diagnosis and treatment of facial trauma
- e. Bacteriology, diagnosis and treatment of soft tissue infection
- f. Assessment and treatment of surgical wounds
- g. Alternative and treatment of lower extremity wounds
- h. Ability to carry out treatment of facial fractures
- i. Ability to carry out flap reconstruction especially on the face
- j. Ability to perform microsurgical reconstruction
- k. Ability to carry out treatment of hand fractures
- l. Ability to assess and treat Dupuytren's disease
- m. Ability to assess and treat breast deformity (breast reconstruction including augmentation), breast asymmetry and hypertrophy. Be familiar with the different surgical techniques