Fellowship Program Description

A. Program Demographics
1. The Cleveland Clinic Foundation
2. ASTS Multi-Organ Abdominal Transplant Fellowship
3. Transplant Center / Desk A110
4. 9500 Euclid Avenue, Cleveland, OH 44195
5. 216-445-2381
6. 216-444-9375
7. millerc8@ccf.org – Program Director Email
8. Charles Miller, M.D. – Director, Liver Transplantation Program
9. John Fung, M.D., Ph.D. – Chairman, Department of General Surgery; Director, Transplant Center; and Director, ASTS Multi-Organ Abdominal Transplant Fellowship. fungj@ccf.org
10. Coordinator, Liver Transplant Program and ASTS Multi-Organ Abdominal Transplant Fellowship – Beth Christoff email: christb@ccf.org

B. Introduction
1. History. The program has been in existence now for one year, going on its second year. We have our 2004 fellow, first liver transplantation to enter this program that is starting his second year, and our 2005 fellow that will be starting his first year in July 2005.
2. Duration. Length of proposed training program is 2 years (optional 3rd in research).
3. Prerequisite Training/Selection Criteria. Completion of General Surgery Residency or foreign equivalent.

C. Resources
1. Teaching Staff. All of the following are staff that will be involved in providing the educational experience/teaching and have supervisory responsibilities over the participant(s).
Charles Miller, M.D. – Director, Liver Transplantation Program
John Fung, M.D. – Director, Transplant Center and Chairman, Department of General Surgery
Bijan Eghtesad, M.D. – Liver Transplantation
David Vogt, M.D. – Liver Transplantation
Charles Winans, M.D. – Liver Transplantation / Pancreas Transplantation
2. Facilities. The Cleveland Clinic Main Campus or in the field during procurement.

D. Educational Program - Basic Curriculum
A. Rotations/master curriculum
Year 1
General Liver Transplantation
Clinic, Intensive Care and Acute Care
Deceased Donor Multi-Organ Recovery and Back Table Procedures
Year 2
Deceased Donor Liver Transplantation
Advanced Liver Transplantation
Kidney & Pancreas Transplant
B. **Goals and objectives for each rotation**

**Year 1 (PGY-6)**

**All rotations:**
- Demonstrate a caring and respectful attitude toward patients and their family members
- Exhibit strong written and oral communication skills
- Make informed decisions regarding the diagnosis and care of patients
- Counsel and educate patients and their family members
- Work effectively with other members of the transplant team

**General Liver Transplantation:**
- Understand when a referral should be made for a liver transplant evaluation
- Demonstrate an understanding of the issues involved in the evaluation of potential liver transplant recipients
- Understand the Model End-Stage Liver Disease (MELD) classification system for adults and the Pediatric End-Stage Liver Disease (PELD) classification system for children
- Understand the array of pharmaceutical drugs used in immunosuppression management
- To scrub on liver transplant procedures and understand how to assist the surgeons during the procedure.

**Clinic, Intensive Care and Acute Care:**
- Become knowledgeable regarding the diagnosis of end-stage liver disease
- Be proficient as to the care of patients prior to transplantation
- Counsel and educate patients and their families
- Become experienced in the immediate care of patients post-transplant
- Demonstrate an understanding of immunosuppression management

**Deceased Donor Procurement:**
- Understand issues to consider in the evaluation of potential donor organs
- Become proficient in optimal management of organ donors
- Understand how to perform a multi-organ recovery
- Understand how to perform back table procedures on different organs and to prepare organs for transplantation

**Year 2 (PGY-7)**

**Deceased Donor Liver Transplantation:**
- Understand how to assist and perform liver transplant procedure.
- Understand post-operative management and follow up of the living liver donors.

**Advanced Liver Transplantation:**
- Demonstrate an understanding of the issues involved with an assessment of potential recipients for living donor transplants
- Be knowledgeable about the issues to consider in an assessment of potential donors for living donor transplants
- Understand how to perform a living donor hepatectomy
- Understand how to perform a split liver
- Be knowledgeable about indications for re-transplant
- Be knowledgeable about issues involved in the assessment of multi-organ donors
- Be knowledgeable about assessment of candidates for multi-organ transplants or re-transplants
**Kidney & Pancreas Transplant:**
- Gain an understanding of kidney and pancreas transplantation
- Become experienced in the care of kidney and pancreas transplant patients, pre and post-operatively
- Demonstrate a knowledge of the kidney and pancreas transplant procedures

C. **Program Goals and Objectives**

The goal of the two-year Multi-Organ Abdominal Transplant Fellowship is to provide training and experience in all aspects of abdominal organ transplantation.

During the first year of the fellowship, participants will develop a general understanding of liver transplantation. They will be trained to manage patients with end-stage liver disease, assess appropriate candidates for transplantation and to provide liver transplant recipients with post-operative care. They will also develop an understanding of kidney and pancreas transplantation and learn the skills necessary to recover organs from deceased donors.

During the second year, the fellowship will provide participants with their initial experience with the liver transplant procedure itself. It will conclude with training in advanced issues in liver transplantation, including living donor liver transplantation, split liver transplantation, multi-organ transplants and re-transplantation.

As a result of the fellowship, participants will gain the experience and develop the skills necessary to enter the field of abdominal organ transplantation and to care for patients with end-stage organ disease. In order to enter the fellowship, candidates must have completed a general surgery residency and surgical board eligibility, or its foreign equivalent. Following the fellowship, it is expected that participants will take the board certification examination in general surgery.

E. **Evaluation**

1. **Formal Evaluation** - Cleveland Clinic Foundation Department of General Surgery Performance Evaluation Process: The evaluation is based on Patient Care, Medical Knowledge, Technical/Operative Skills, Practice-Based Learning Improvement, Interpersonal and Communication Skills, Professionalism, System-Based Learning, and the overall clinical competency and performance.