



CTC COURSE APPENDIX

Recommended Learning Tracks

Table of Contents

• Abdominal Transplant Surgery_____	2
• Adult Cardiac_____	3
• Adult Kidney_____	4
• Adult Liver_____	5
• Adult Pulmonary_____	6
• Cardiothoracic Transplant Surgery_____	7
• Pediatric Cardiac_____	8
• Pediatric Kidney_____	9
• Pediatric Liver_____	10
• Pediatric Pulmonary_____	11
• Transplant ID_____	12
• Transplant Pharm D_____	13
• Complete Course List_____	14

Abdominal Transplant Surgery - CTC Learning Track (Total = 32)

All Organs & Ages 1-5

1. Overview of Transplant Immunology
2. Induction and Maintenance Immunosuppression
3. Overview of Transplant Pathology
4. Approach to Fever and Infections in Transplant Recipients
5. Non-Graft Complications in Solid Organ Transplantation: Metabolic, Malignancies, Etc.

Liver 1-7

1. Managing Patients on the Liver Transplant Wait List
2. Evaluation of Recipient Candidacy for Liver Transplantation
3. Viral Hepatitis: Pre- and Post-Liver Transplant Management
4. Induction and Maintenance Immunosuppression in Liver Transplantation
5. Early Complications following Liver Transplantation
6. Long Term Care of the Liver Transplant Recipient
7. Liver Graft Pathology

Renal 1-5

1. Evaluation of Recipient Candidacy for Renal Transplantation
2. Kidney Allocation/Organ Quality
3. Induction and Maintenance Immunosuppression in Renal Transplantation
4. Overview of Rejection: Diagnosis, Pathology, Management and Outcomes
5. Renal Graft Pathology

Cardiac 0

1. *Evaluation of Recipient Candidacy for Cardiac Transplantation*
2. *Overview of Cardiac Rejection: Diagnosis, Management and Outcomes*
3. *Immunosuppression and Complications of Cardiac Transplantation*

Lung 0

1. *Pulmonary Hypertension*
2. *Evaluation of Recipient Candidacy for Lung Transplantation*
3. *Overview of Lung Rejection: Diagnosis, Management and Outcomes*
4. *Immunosuppression and Complications of Lung Transplantation*
5. *Donor Lung Allocation/ Donor Lung Selection*
6. *Late Complications of Lung Transplantation*

Peds 1-3

1. Adherence and Transition from Adolescence
2. Pediatric Graft Allocation/Organ Quality
3. Immunosuppression and Medications in Children

Basic Immunology 1-2

1. Clinical Assays of Immune Function and Transplantomics
2. Histocompatibility Techniques and Risk Assessment Before and After Transplantation

Transplant Pharm 1-3

1. "Immunosuppression pharmacokinetics & therapeutic drug monitoring: Part 1 - Induction/Rejection Therapy"
2. "Immunosuppression pharmacokinetics & therapeutic drug monitoring: Part 2 - Maintenance Immunosuppression"
3. Drug Interactions and Safety

Transplant ID 1-4

1. Infectious Disease: Pre- and Early Post-operative Issues
2. CMV after Solid Organ Transplantation
3. Bacterial and Parasitic Infections after Solid Organ Transplantation
4. Post-Transplant Lymphoproliferative Disease

Misc (Other) 1-3

1. Psychosocial Aspects of Organ Transplantation and Living Donation
2. Regulatory Issues in Transplantation: CMS, UNOS, SRTR, outcome reporting
3. Women's Health Issues

Adult Cardiac - CTC Learning Track (Total = 27)

All Organs & Ages 1-5

1. Overview of Transplant Immunology
2. Induction and Maintenance Immunosuppression
3. Overview of Transplant Pathology
4. Approach to Fever and Infections in Transplant Recipients
5. Non-Graft Complications in Solid Organ Transplantation: Metabolic, Malignancies, Etc.

Liver 2

1. *Managing Patients on the Liver Transplant Wait List*
2. Evaluation of Recipient Candidacy for Liver Transplantation
3. *Viral Hepatitis: Pre- and Post-Liver Transplant Management*
4. *Induction and Maintenance Immunosuppression in Liver Transplantation*
5. *Early Complications following Liver Transplantation*
6. *Long Term Care of the Liver Transplant Recipient*
7. *Liver Graft Pathology*

Renal 1

1. Evaluation of Recipient Candidacy for Renal Transplantation
2. *Kidney Allocation/Organ Quality*
3. *Induction and Maintenance Immunosuppression in Renal Transplantation*
4. *Overview of Rejection: Diagnosis, Pathology, Management and Outcomes*
5. *Renal Graft Pathology*

Cardiac 1-3

1. Evaluation of Recipient Candidacy for Cardiac Transplantation
2. Overview of Cardiac Rejection: Diagnosis, Management and Outcomes
3. Immunosuppression and Complications of Cardiac Transplantation

Lung 1

1. Pulmonary Hypertension
2. *Evaluation of Recipient Candidacy for Lung Transplantation*
3. *Overview of Lung Rejection: Diagnosis, Management and Outcomes*
4. *Immunosuppression and Complications of Lung Transplantation*
5. *Donor Lung Allocation/ Donor Lung Selection*
6. *Late Complications of Lung Transplantation*

Peds 0

1. *Adherence and Transition from Adolescence*
2. *Pediatric Graft Allocation/Organ Quality*
3. *Immunosuppression and Medications in Children*

Basic Immunology 1-2

1. Clinical Assays of Immune Function and Transplantomics
2. Histocompatibility Techniques and Risk Assessment Before and After Transplantation

Transplant Pharm 1-3

1. "Immunosuppression pharmacokinetics & therapeutic drug monitoring: Part 1 - Induction/Rejection Therapy"
2. "Immunosuppression pharmacokinetics & therapeutic drug monitoring: Part 2 - Maintenance Immunosuppression"
3. Drug Interactions and Safety

Transplant ID 1-4

1. Infectious Disease: Pre- and Early Post-operative Issues
2. CMV after Solid Organ Transplantation
3. Bacterial and Parasitic Infections after Solid Organ Transplantation
4. Post-Transplant Lymphoproliferative Disease

Misc (Other) 1-3

1. Psychosocial Aspects of Organ Transplantation and Living Donation
2. Regulatory Issues in Transplantation: CMS, UNOS, SRTR, outcome reporting
3. Women's Health Issues

Adult Kidney - CTC Learning Track (Total = 29)

All Organs & Ages 1-5

1. Overview of Transplant Immunology
2. Induction and Maintenance Immunosuppression
3. Overview of Transplant Pathology
4. Approach to Fever and Infections in Transplant Recipients
5. Non-Graft Complications in Solid Organ Transplantation: Metabolic, Malignancies, Etc.

Liver 1-4

1. Managing Patients on the Liver Transplant Wait List
2. Evaluation of Recipient Candidacy for Liver Transplantation
3. Viral Hepatitis: Pre- and Post-Liver Transplant Management
4. Induction and Maintenance Immunosuppression in Liver Transplantation
5. *Early Complications following Liver Transplantation*
6. *Long Term Care of the Liver Transplant Recipient*
7. *Liver Graft Pathology*

Renal 1-5

1. Evaluation of Recipient Candidacy for Renal Transplantation
2. Kidney Allocation/Organ Quality
3. Induction and Maintenance Immunosuppression in Renal Transplantation
4. Overview of Rejection: Diagnosis, Pathology, Management and Outcomes
5. Renal Graft Pathology

Cardiac 0

1. *Evaluation of Recipient Candidacy for Cardiac Transplantation*
2. *Overview of Cardiac Rejection: Diagnosis, Management and Outcomes*
3. *Immunosuppression and Complications of Cardiac Transplantation*

Lung 0

1. *Pulmonary Hypertension*
2. *Evaluation of Recipient Candidacy for Lung Transplantation*
3. *Overview of Lung Rejection: Diagnosis, Management and Outcomes*
4. *Immunosuppression and Complications of Lung Transplantation*
5. *Donor Lung Allocation/ Donor Lung Selection*
6. *Late Complications of Lung Transplantation*

Peds 1-3

1. Adherence and Transition from Adolescence
2. Pediatric Graft Allocation/Organ Quality
3. Immunosuppression and Medications in Children

Basic Immunology 1-2

1. Clinical Assays of Immune Function and Transplantomics
2. Histocompatibility Techniques and Risk Assessment Before and After Transplantation

Transplant Pharm 1-3

1. "Immunosuppression pharmacokinetics & therapeutic drug monitoring: Part 1 - Induction/Rejection Therapy"
2. "Immunosuppression pharmacokinetics & therapeutic drug monitoring: Part 2 - Maintenance Immunosuppression"
3. Drug Interactions and Safety

Transplant ID 1-4

1. Infectious Disease: Pre- and Early Post-operative Issues
2. CMV after Solid Organ Transplantation
3. Bacterial and Parasitic Infections after Solid Organ Transplantation
4. Post-Transplant Lymphoproliferative Disease

Misc (Other) 1-3

1. Psychosocial Aspects of Organ Transplantation and Living Donation
2. Regulatory Issues in Transplantation: CMS, UNOS, SRTR, outcome reporting
3. Women's Health Issues

Adult Liver - CTC Learning Track (Total = 31)

All Organs & Ages 1-5

1. Overview of Transplant Immunology
2. Induction and Maintenance Immunosuppression
3. Overview of Transplant Pathology
4. Approach to Fever and Infections in Transplant Recipients
5. Non-Graft Complications in Solid Organ Transplantation: Metabolic, Malignancies, Etc.

Liver 1-7

1. Managing Patients on the Liver Transplant Wait List
2. Evaluation of Recipient Candidacy for Liver Transplantation
3. Viral Hepatitis: Pre- and Post-Liver Transplant Management
4. Induction and Maintenance Immunosuppression in Liver Transplantation
5. Early Complications following Liver Transplantation
6. Long Term Care of the Liver Transplant Recipient
7. Liver Graft Pathology

Renal 1-2, 5

1. Evaluation of Recipient Candidacy for Renal Transplantation
2. Kidney Allocation/Organ Quality
3. *Induction and Maintenance Immunosuppression in Renal Transplantation*
4. *Overview of Rejection: Diagnosis, Pathology, Management and Outcomes*
5. Renal Graft Pathology

Cardiac 0

1. *Evaluation of Recipient Candidacy for Cardiac Transplantation*
2. *Overview of Cardiac Rejection: Diagnosis, Management and Outcomes*
3. *Immunosuppression and Complications of Cardiac Transplantation*

Lung 0

1. *Pulmonary Hypertension*
2. *Evaluation of Recipient Candidacy for Lung Transplantation*
3. *Overview of Lung Rejection: Diagnosis, Management and Outcomes*
4. *Immunosuppression and Complications of Lung Transplantation*
5. *Donor Lung Allocation/ Donor Lung Selection*
6. *Late Complications of Lung Transplantation*

Peds 1-3

1. Adherence and Transition from Adolescence
2. Pediatric Graft Allocation/Organ Quality
3. Immunosuppression and Medications in Children

Basic Immunology 1-2

1. Clinical Assays of Immune Function and Transplantomics
2. Histocompatibility Techniques and Risk Assessment Before and After Transplantation

Transplant Pharm 1-3

1. "Immunosuppression pharmacokinetics & therapeutic drug monitoring: Part 1 - Induction/Rejection Therapy"
2. "Immunosuppression pharmacokinetics & therapeutic drug monitoring: Part 2 - Maintenance Immunosuppression"
3. Drug Interactions and Safety

Transplant ID 1-4

1. Infectious Disease: Pre- and Early Post-operative Issues
2. CMV after Solid Organ Transplantation
3. Bacterial and Parasitic Infections after Solid Organ Transplantation
4. Post-Transplant Lymphoproliferative Disease

Misc (Other) 1-3

1. Psychosocial Aspects of Organ Transplantation and Living Donation
2. Regulatory Issues in Transplantation: CMS, UNOS, SRTR, outcome reporting
3. Women's Health Issues

Adult Pulmonary - CTC Learning Track (Total = 24)

All Organs & Ages 1-5

1. Overview of Transplant Immunology
2. Induction and Maintenance Immunosuppression
3. Overview of Transplant Pathology
4. Approach to Fever and Infections in Transplant Recipients
5. Non-Graft Complications in Solid Organ Transplantation: Metabolic, Malignancies, Etc.

Liver 0

1. *Managing Patients on the Liver Transplant Wait List*
2. *Evaluation of Recipient Candidacy for Liver Transplantation*
3. *Viral Hepatitis: Pre- and Post-Liver Transplant Management*
4. *Induction and Maintenance Immunosuppression in Liver Transplantation*
5. *Early Complications following Liver Transplantation*
6. *Long Term Care of the Liver Transplant Recipient*
7. *Liver Graft Pathology*

Renal 0

1. *Evaluation of Recipient Candidacy for Renal Transplantation*
2. *Kidney Allocation/Organ Quality*
3. *Induction and Maintenance Immunosuppression in Renal Transplantation*
4. *Overview of Rejection: Diagnosis, Pathology, Management and Outcomes*
5. *Renal Graft Pathology*

Cardiac 2

1. *Evaluation of Recipient Candidacy for Cardiac Transplantation*
2. **Overview of Cardiac Rejection: Diagnosis, Management and Outcomes**
3. *Immunosuppression and Complications of Cardiac Transplantation*

Lung 1-6

1. **Pulmonary Hypertension**
2. **Evaluation of Recipient Candidacy for Lung Transplantation**
3. **Overview of Lung Rejection: Diagnosis, Management and Outcomes**
4. **Immunosuppression and Complications of Lung Transplantation**
5. **Donor Lung Allocation/ Donor Lung Selection**
6. **Late Complications of Lung Transplantation**

Peds 0

1. *Adherence and Transition from Adolescence*
2. *Pediatric Graft Allocation/Organ Quality*
3. *Immunosuppression and Medications in Children*

Basic Immunology 1-2

1. **Clinical Assays of Immune Function and Transplantomics**
2. **Histocompatibility Techniques and Risk Assessment Before and After Transplantation**

Transplant Pharm 1-3

1. "Immunosuppression pharmacokinetics & therapeutic drug monitoring: Part 1 - Induction/Rejection Therapy"
2. "Immunosuppression pharmacokinetics & therapeutic drug monitoring: Part 2 - Maintenance Immunosuppression"
3. **Drug Interactions and Safety**

Transplant ID 1-4

1. **Infectious Disease: Pre- and Early Post-operative Issues**
2. **CMV after Solid Organ Transplantation**
3. **Bacterial and Parasitic Infections after Solid Organ Transplantation**
4. **Post-Transplant Lymphoproliferative Disease**

Misc (Other) 1-3

1. **Psychosocial Aspects of Organ Transplantation and Living Donation**
2. **Regulatory Issues in Transplantation: CMS, UNOS, SRTR, outcome reporting**
3. **Women's Health Issues**

Cardiothoracic Transplant Surgery - CTC Learning Track (Total = 29)

All Organs & Ages 1-5

1. Overview of Transplant Immunology
2. Induction and Maintenance Immunosuppression
3. Overview of Transplant Pathology
4. Approach to Fever and Infections in Transplant Recipients
5. Non-Graft Complications in Solid Organ Transplantation: Metabolic, Malignancies, Etc.

Liver 0

1. *Managing Patients on the Liver Transplant Wait List*
2. *Evaluation of Recipient Candidacy for Liver Transplantation*
3. *Viral Hepatitis: Pre- and Post-Liver Transplant Management*
4. *Induction and Maintenance Immunosuppression in Liver Transplantation*
5. *Early Complications following Liver Transplantation*
6. *Long Term Care of the Liver Transplant Recipient*
7. *Liver Graft Pathology*

Renal 0

1. *Evaluation of Recipient Candidacy for Renal Transplantation*
2. *Kidney Allocation/Organ Quality*
3. *Induction and Maintenance Immunosuppression in Renal Transplantation*
4. *Overview of Rejection: Diagnosis, Pathology, Management and Outcomes*
5. *Renal Graft Pathology*

Cardiac 1-3

1. Evaluation of Recipient Candidacy for Cardiac Transplantation
2. Overview of Cardiac Rejection: Diagnosis, Management and Outcomes
3. Immunosuppression and Complications of Cardiac Transplantation

Lung 1-6

1. Pulmonary Hypertension
2. Evaluation of Recipient Candidacy for Lung Transplantation
3. Overview of Lung Rejection: Diagnosis, Management and Outcomes
4. Immunosuppression and Complications of Lung Transplantation
5. Donor Lung Allocation/ Donor Lung Selection
6. Late Complications of Lung Transplantation

Peds 1-3

1. Adherence and Transition from Adolescence
2. Pediatric Graft Allocation/Organ Quality
3. Immunosuppression and Medications in Children

Basic Immunology 1-2

1. Clinical Assays of Immune Function and Transplantomics
2. Histocompatibility Techniques and Risk Assessment Before and After Transplantation

Transplant Pharm 1-3

1. "Immunosuppression pharmacokinetics & therapeutic drug monitoring: Part 1 - Induction/Rejection Therapy"
2. "Immunosuppression pharmacokinetics & therapeutic drug monitoring: Part 2 - Maintenance Immunosuppression"
3. Drug Interactions and Safety

Transplant ID 1-4

1. Infectious Disease: Pre- and Early Post-operative Issues
2. CMV after Solid Organ Transplantation
3. Bacterial and Parasitic Infections after Solid Organ Transplantation
4. Post-Transplant Lymphoproliferative Disease

Misc (Other) 1-3

1. Psychosocial Aspects of Organ Transplantation and Living Donation
2. Regulatory Issues in Transplantation: CMS, UNOS, SRTR, outcome reporting
3. Women's Health Issues

Pediatric Cardiac - CTC Learning Track (Total = 26)

All Organs & Ages 1-5

1. Overview of Transplant Immunology
2. Induction and Maintenance Immunosuppression
3. Overview of Transplant Pathology
4. Approach to Fever and Infections in Transplant Recipients
5. Non-Graft Complications in Solid Organ Transplantation: Metabolic, Malignancies, Etc.

Liver 2

1. *Managing Patients on the Liver Transplant Wait List*
2. Evaluation of Recipient Candidacy for Liver Transplantation
3. *Viral Hepatitis: Pre- and Post-Liver Transplant Management*
4. *Induction and Maintenance Immunosuppression in Liver Transplantation*
5. *Early Complications following Liver Transplantation*
6. *Long Term Care of the Liver Transplant Recipient*
7. *Liver Graft Pathology*

Renal 1

1. Evaluation of Recipient Candidacy for Renal Transplantation
2. *Kidney Allocation/Organ Quality*
3. *Induction and Maintenance Immunosuppression in Renal Transplantation*
4. *Overview of Rejection: Diagnosis, Pathology, Management and Outcomes*
5. *Renal Graft Pathology*

Cardiac 1-3

1. Evaluation of Recipient Candidacy for Cardiac Transplantation
2. Overview of Cardiac Rejection: Diagnosis, Management and Outcomes
3. Immunosuppression and Complications of Cardiac Transplantation

Lung 1

1. Pulmonary Hypertension
2. *Evaluation of Recipient Candidacy for Lung Transplantation*
3. *Overview of Lung Rejection: Diagnosis, Management and Outcomes*
4. *Immunosuppression and Complications of Lung Transplantation*
5. *Donor Lung Allocation/ Donor Lung Selection*
6. *Late Complications of Lung Transplantation*

Peds 1-3

1. Adherence and Transition from Adolescence
2. Pediatric Graft Allocation/Organ Quality
3. Immunosuppression and Medications in Children

Basic Immunology 1-2

1. Clinical Assays of Immune Function and Transplantomics
2. Histocompatibility Techniques and Risk Assessment Before and After Transplantation

Transplant Pharm 1-3

1. "Immunosuppression pharmacokinetics & therapeutic drug monitoring: Part 1 - Induction/Rejection Therapy"
2. "Immunosuppression pharmacokinetics & therapeutic drug monitoring: Part 2 - Maintenance Immunosuppression"
3. Drug Interactions and Safety

Transplant ID 1-4

1. Infectious Disease: Pre- and Early Post-operative Issues
2. CMV after Solid Organ Transplantation
3. Bacterial and Parasitic Infections after Solid Organ Transplantation
4. Post-Transplant Lymphoproliferative Disease

Misc (Other) 1-3

1. Psychosocial Aspects of Organ Transplantation and Living Donation
2. Regulatory Issues in Transplantation: CMS, UNOS, SRTR, outcome reporting
3. Women's Health Issues

Pediatric Kidney - CTC Learning Track (Total = 24)

All Organs & Ages 1-5

1. Overview of Transplant Immunology
2. Induction and Maintenance Immunosuppression
3. Overview of Transplant Pathology
4. Approach to Fever and Infections in Transplant Recipients
5. Non-Graft Complications in Solid Organ Transplantation: Metabolic, Malignancies, Etc.

Liver 0

1. *Managing Patients on the Liver Transplant Wait List*
2. *Evaluation of Recipient Candidacy for Liver Transplantation*
3. *Viral Hepatitis: Pre- and Post-Liver Transplant Management*
4. *Induction and Maintenance Immunosuppression in Liver Transplantation*
5. *Early Complications following Liver Transplantation*
6. *Long Term Care of the Liver Transplant Recipient*
7. *Liver Graft Pathology*

Renal 1-5

1. Evaluation of Recipient Candidacy for Renal Transplantation
2. Kidney Allocation/Organ Quality
3. Induction and Maintenance Immunosuppression in Renal Transplantation
4. Overview of Rejection: Diagnosis, Pathology, Management and Outcomes
5. Renal Graft Pathology

Cardiac 0

1. *Evaluation of Recipient Candidacy for Cardiac Transplantation*
2. *Overview of Cardiac Rejection: Diagnosis, Management and Outcomes*
3. *Immunosuppression and Complications of Cardiac Transplantation*

Lung 0

1. *Pulmonary Hypertension*
2. *Evaluation of Recipient Candidacy for Lung Transplantation*
3. *Overview of Lung Rejection: Diagnosis, Management and Outcomes*
4. *Immunosuppression and Complications of Lung Transplantation*
5. *Donor Lung Allocation/ Donor Lung Selection*
6. *Late Complications of Lung Transplantation*

Peds 1-3

1. Adherence and Transition from Adolescence
2. Pediatric Graft Allocation/Organ Quality
3. Immunosuppression and Medications in Children

Basic Immunology 1-2

1. Clinical Assays of Immune Function and Transplantomics
2. Histocompatibility Techniques and Risk Assessment Before and After Transplantation

Transplant Pharm 1-3

1. "Immunosuppression pharmacokinetics & therapeutic drug monitoring: Part 1 - Induction/Rejection Therapy"
2. "Immunosuppression pharmacokinetics & therapeutic drug monitoring: Part 2 - Maintenance Immunosuppression"
3. Drug Interactions and Safety

Transplant ID 1-3

1. Infectious Disease: Pre- and Early Post-operative Issues
2. CMV after Solid Organ Transplantation
3. Bacterial and Parasitic Infections after Solid Organ Transplantation
4. *Post-Transplant Lymphoproliferative Disease*

Misc (Other) 1-3

1. Psychosocial Aspects of Organ Transplantation and Living Donation
2. Regulatory Issues in Transplantation: CMS, UNOS, SRTR, outcome reporting
3. Women's Health Issues

Pediatric Liver - CTC Learning Track (Total = 27)

All Organs & Ages 1-5

1. Overview of Transplant Immunology
2. Induction and Maintenance Immunosuppression
3. Overview of Transplant Pathology
4. Approach to Fever and Infections in Transplant Recipients
5. Non-Graft Complications in Solid Organ Transplantation: Metabolic, Malignancies, Etc.

Liver 1-7

1. Managing Patients on the Liver Transplant Wait List
2. Evaluation of Recipient Candidacy for Liver Transplantation
3. Viral Hepatitis: Pre- and Post-Liver Transplant Management
4. Induction and Maintenance Immunosuppression in Liver Transplantation
5. Early Complications following Liver Transplantation
6. Long Term Care of the Liver Transplant Recipient
7. Liver Graft Pathology

Renal 0

1. *Evaluation of Recipient Candidacy for Renal Transplantation*
2. *Kidney Allocation/Organ Quality*
3. *Induction and Maintenance Immunosuppression in Renal Transplantation*
4. *Overview of Rejection: Diagnosis, Pathology, Management and Outcomes*
5. *Renal Graft Pathology*

Cardiac 0

1. *Evaluation of Recipient Candidacy for Cardiac Transplantation*
2. *Overview of Cardiac Rejection: Diagnosis, Management and Outcomes*
3. *Immunosuppression and Complications of Cardiac Transplantation*

Lung 0

1. *Pulmonary Hypertension*
2. *Evaluation of Recipient Candidacy for Lung Transplantation*
3. *Overview of Lung Rejection: Diagnosis, Management and Outcomes*
4. *Immunosuppression and Complications of Lung Transplantation*
5. *Donor Lung Allocation/ Donor Lung Selection*
6. *Late Complications of Lung Transplantation*

Peds 1-3

1. Adherence and Transition from Adolescence
2. Pediatric Graft Allocation/Organ Quality
3. Immunosuppression and Medications in Children

Basic Immunology 1-2

1. Clinical Assays of Immune Function and Transplantomics
2. Histocompatibility Techniques and Risk Assessment Before and After Transplantation

Transplant Pharm 1-3

1. "Immunosuppression pharmacokinetics & therapeutic drug monitoring: Part 1 - Induction/Rejection Therapy"
2. "Immunosuppression pharmacokinetics & therapeutic drug monitoring: Part 2 - Maintenance Immunosuppression"
3. Drug Interactions and Safety

Transplant ID 1-4

1. Infectious Disease: Pre- and Early Post-operative Issues
2. CMV after Solid Organ Transplantation
3. Bacterial and Parasitic Infections after Solid Organ Transplantation
4. Post-Transplant Lymphoproliferative Disease

Misc (Other) 1-3

1. Psychosocial Aspects of Organ Transplantation and Living Donation
2. Regulatory Issues in Transplantation: CMS, UNOS, SRTR, outcome reporting
3. Women's Health Issues

Pediatric Pulmonary - CTC Learning Track (Total = 27)

All Organs & Ages 1-5

1. Overview of Transplant Immunology
2. Induction and Maintenance Immunosuppression
3. Overview of Transplant Pathology
4. Approach to Fever and Infections in Transplant Recipients
5. Non-Graft Complications in Solid Organ Transplantation: Metabolic, Malignancies, Etc.

Liver 0

1. *Managing Patients on the Liver Transplant Wait List*
2. *Evaluation of Recipient Candidacy for Liver Transplantation*
3. *Viral Hepatitis: Pre- and Post-Liver Transplant Management*
4. *Induction and Maintenance Immunosuppression in Liver Transplantation*
5. *Early Complications following Liver Transplantation*
6. *Long Term Care of the Liver Transplant Recipient*
7. *Liver Graft Pathology*

Renal 0

1. *Evaluation of Recipient Candidacy for Renal Transplantation*
2. *Kidney Allocation/Organ Quality*
3. *Induction and Maintenance Immunosuppression in Renal Transplantation*
4. *Overview of Rejection: Diagnosis, Pathology, Management and Outcomes*
5. *Renal Graft Pathology*

Cardiac 0

1. *Evaluation of Recipient Candidacy for Cardiac Transplantation*
2. *Overview of Cardiac Rejection: Diagnosis, Management and Outcomes*
3. *Immunosuppression and Complications of Cardiac Transplantation*

Lung 1-6

1. Pulmonary Hypertension
2. Evaluation of Recipient Candidacy for Lung Transplantation
3. Overview of Lung Rejection: Diagnosis, Management and Outcomes
4. Immunosuppression and Complications of Lung Transplantation
5. Donor Lung Allocation/ Donor Lung Selection
6. Late Complications of Lung Transplantation

Peds 1-3

1. Adherence and Transition from Adolescence
2. Pediatric Graft Allocation/Organ Quality
3. Immunosuppression and Medications in Children

Basic Immunology 1-2

1. Clinical Assays of Immune Function and Transplantomics
2. Histocompatibility Techniques and Risk Assessment Before and After Transplantation

Transplant Pharm 1-3

1. "Immunosuppression pharmacokinetics & therapeutic drug monitoring: Part 1 - Induction/Rejection Therapy"
2. "Immunosuppression pharmacokinetics & therapeutic drug monitoring: Part 2 - Maintenance Immunosuppression"
3. Drug Interactions and Safety

Transplant ID 1-4

1. Infectious Disease: Pre- and Early Post-operative Issues
2. CMV after Solid Organ Transplantation
3. Bacterial and Parasitic Infections after Solid Organ Transplantation
4. Post-Transplant Lymphoproliferative Disease

Misc (Other) 1-3

1. Psychosocial Aspects of Organ Transplantation and Living Donation
2. Regulatory Issues in Transplantation: CMS, UNOS, SRTR, outcome reporting
3. Women's Health Issues

Transplant ID - CTC Learning Track (Total = 31)

All Organs & Ages 1-5

1. Overview of Transplant Immunology
2. Induction and Maintenance Immunosuppression
3. Overview of Transplant Pathology
4. Approach to Fever and Infections in Transplant Recipients
5. Non-Graft Complications in Solid Organ Transplantation: Metabolic, Malignancies, Etc.

Liver 1-5

1. Managing Patients on the Liver Transplant Wait List
2. Evaluation of Recipient Candidacy for Liver Transplantation
3. Viral Hepatitis: Pre- and Post-Liver Transplant Management
4. Induction and Maintenance Immunosuppression in Liver Transplantation
5. Early Complications following Liver Transplantation
6. *Long Term Care of the Liver Transplant Recipient*
7. *Liver Graft Pathology*

Renal 1, 4

1. Evaluation of Recipient Candidacy for Renal Transplantation
2. *Kidney Allocation/Organ Quality*
3. *Induction and Maintenance Immunosuppression in Renal Transplantation*
4. Overview of Rejection: Diagnosis, Pathology, Management and Outcomes
5. *Renal Graft Pathology*

Cardiac 1

1. Evaluation of Recipient Candidacy for Cardiac Transplantation
2. *Overview of Cardiac Rejection: Diagnosis, Management and Outcomes*
3. *Immunosuppression and Complications of Cardiac Transplantation*

Lung 2, 4-5

1. *Pulmonary Hypertension*
2. Evaluation of Recipient Candidacy for Lung Transplantation
3. *Overview of Lung Rejection: Diagnosis, Management and Outcomes*
4. Immunosuppression and Complications of Lung Transplantation
5. Donor Lung Allocation/ Donor Lung Selection
6. *Late Complications of Lung Transplantation*

Peds 1-3

1. Adherence and Transition from Adolescence
2. Pediatric Graft Allocation/Organ Quality
3. Immunosuppression and Medications in Children

Basic Immunology 1-2

1. Clinical Assays of Immune Function and Transplantomics
2. Histocompatibility Techniques and Risk Assessment Before and After Transplantation

Transplant Pharm 1-3

1. "Immunosuppression pharmacokinetics & therapeutic drug monitoring: Part 1 - Induction/Rejection Therapy"
2. "Immunosuppression pharmacokinetics & therapeutic drug monitoring: Part 2 - Maintenance Immunosuppression"
3. Drug Interactions and Safety

Transplant ID 1-4

1. Infectious Disease: Pre- and Early Post-operative Issues
2. CMV after Solid Organ Transplantation
3. Bacterial and Parasitic Infections after Solid Organ Transplantation
4. Post-Transplant Lymphoproliferative Disease

Misc (Other) 1-3

1. Psychosocial Aspects of Organ Transplantation and Living Donation
2. Regulatory Issues in Transplantation: CMS, UNOS, SRTR, outcome reporting
3. Women's Health Issues

Transplant Pharm D - CTC Learning Track (Total = 27)

All Organs & Ages 1-5

1. Overview of Transplant Immunology
2. Induction and Maintenance Immunosuppression
3. Overview of Transplant Pathology
4. Approach to Fever and Infections in Transplant Recipients
5. Non-Graft Complications in Solid Organ Transplantation: Metabolic, Malignancies, Etc.

Liver 3-6

1. *Managing Patients on the Liver Transplant Wait List*
2. *Evaluation of Recipient Candidacy for Liver Transplantation*
3. Viral Hepatitis: Pre- and Post-Liver Transplant Management
4. Induction and Maintenance Immunosuppression in Liver Transplantation
5. Early Complications following Liver Transplantation
6. Long Term Care of the Liver Transplant Recipient
7. *Liver Graft Pathology*

Renal 3-4

1. *Evaluation of Recipient Candidacy for Renal Transplantation*
2. *Kidney Allocation/Organ Quality*
3. Induction and Maintenance Immunosuppression in Renal Transplantation
4. Overview of Rejection: Diagnosis, Pathology, Management and Outcomes
5. *Renal Graft Pathology*

Cardiac 2-3

1. *Evaluation of Recipient Candidacy for Cardiac Transplantation*
2. Overview of Cardiac Rejection: Diagnosis, Management and Outcomes
3. Immunosuppression and Complications of Cardiac Transplantation

Lung 3-4

1. *Pulmonary Hypertension*
2. *Evaluation of Recipient Candidacy for Lung Transplantation*
3. Overview of Lung Rejection: Diagnosis, Management and Outcomes
4. Immunosuppression and Complications of Lung Transplantation
5. *Donor Lung Allocation/ Donor Lung Selection*
6. *Late Complications of Lung Transplantation*

Peds 1-3

1. Adherence and Transition from Adolescence
2. Pediatric Graft Allocation/Organ Quality
3. *Immunosuppression and Medications in Children*

Basic Immunology 1-2

1. Clinical Assays of Immune Function and Transplantomics
2. Histocompatibility Techniques and Risk Assessment Before and After Transplantation

Transplant Pharm 1-3

1. "Immunosuppression pharmacokinetics & therapeutic drug monitoring: Part 1 - Induction/Rejection Therapy"
2. "Immunosuppression pharmacokinetics & therapeutic drug monitoring: Part 2 - Maintenance Immunosuppression"
3. Drug Interactions and Safety

Transplant ID 1-4

1. Infectious Disease: Pre- and Early Post-operative Issues
2. CMV after Solid Organ Transplantation
3. Bacterial and Parasitic Infections after Solid Organ Transplantation
4. Post-Transplant Lymphoproliferative Disease

Misc (Other) 1-3

1. Psychosocial Aspects of Organ Transplantation and Living Donation
2. Regulatory Issues in Transplantation: CMS, UNOS, SRTR, outcome reporting
3. Women's Health Issues

CTC Topic Area	Topic #	CTC Topic
ALL ORGANS & AGES	1	Overview of Transplant Immunology
ALL ORGANS & AGES	2	Induction and Maintenance Immunosuppression
ALL ORGANS & AGES	3	Overview of Transplant Pathology
ALL ORGANS & AGES	4	Approach to Fever and Infections in Transplant Recipients
ALL ORGANS & AGES	5	Non-Graft Complications in Solid Organ Transplantation: Metabolic, Malignancies, Etc.
LIVER	1	Managing Patients on the Liver Transplant Wait List
LIVER	2	Evaluation of Recipient Candidacy for Liver Transplantation
LIVER	3	Viral Hepatitis: Pre- and Post-Liver Transplant Management
LIVER	4	Induction and Maintenance Immunosuppression in Liver Transplantation
LIVER	5	Early Complications following Liver Transplantation
LIVER	6	Long Term Care of the Liver Transplant Recipient
LIVER	7	Liver Graft Pathology
CARDIO	1	Evaluation of Recipient Candidacy for Cardiac Transplantation
CARDIO	2	Overview of Cardiac Rejection: Diagnosis, Management and Outcomes
CARDIO	3	Immunosuppression and Complications of Cardiac Transplantation
PULM	1	Pulmonary Hypertension
PULM	2	Evaluation of Recipient Candidacy for Lung Transplantation
PULM	3	Overview of Lung Rejection: Diagnosis, Management and Outcomes
PULM	4	Immunosuppression and Complications of Lung Transplantation
PULM	5	Donor Lung Allocation/ Donor Lung Selection
PULM	6	Late Complications of Lung Transplantation
PEDS	1	Adherence and Transition from Adolescence
PEDS	2	Pediatric Graft Allocation/Organ Quality
PEDS	3	Immunosuppression and Medications in Children
RENAL	1	Evaluation of Recipient Candidacy for Renal Transplantation
RENAL	2	Kidney Allocation/Organ Quality
RENAL	3	Induction and Maintenance Immunosuppression in Renal Transplantation
RENAL	4	Overview of Rejection: Diagnosis, Pathology, Management and Outcomes
RENAL	5	Renal Graft Pathology
BASIC	1	Clinical Assays of Immune Function and Transplantomics
BASIC	2	Histocompatibility Techniques and Risk Assessment Before and After Transplantation
PHARM	1	Immunosuppression pharmacokinetics & therapeutic drug monitoring Part 1 - Induction/Rejection Therapy
PHARM	2	Immunosuppression pharmacokinetics & therapeutic drug monitoring Part 2 - Maintenance Immunosuppression
PHARM	3	Drug Interactions and Safety
TID	1	Infectious Disease: Pre- and Early Post-operative Issues
TID	2	CMV after Solid Organ Transplantation
TID	3	Bacterial and Parasitic Infections after Solid Organ Transplantation
TID	4	Post-Transplant Lymphoproliferative Disease
OTHER	1	Psychosocial Aspects of Organ Transplantation and Living Donation
OTHER	2	Regulatory Issues in Transplantation: CMS, UNOS, SRTR, outcome reporting
OTHER	3	Women's Health Issues