



**Annual Program Volumes for Fellowship Training Program Accreditation
Revised June 2018**

Overview

This document outlines requirements and processes for accreditation of transplant surgery fellowships including volume requirements for accreditation, as well as the individual training categories in which programs are accredited. Programs are categorized as **Basic Transplant Fellowships (BTF)**, either kidney, liver, or kidney/liver, with potential **Specialized Training Fellowship(s) (STF)** for those programs that wish to train fellows in pancreas, intestine, hepatobiliary, and/or hepato-pancreato-biliary training. As of June 2016, Living Donor Nephrectomy (LDN) was added to the accreditation portfolio as a modified part of BTF – Kidney and BTF – Kidney/Liver.

Programs will be accredited to train a specific number of fellows in their BTF Category. Programs will no longer request the number of training slots within their application but instead the TACC will assign the number of fellows based on volume and other requirements. If a program is accredited to train in an STF Category, the PROGRAM will determine which of their approved fellows will train in their accredited specialties and is responsible for informing the ASTS prior to the start of their training.

Basic Transplant Fellowship (BTF) Categories

The following minimum program volumes are required for Fellowship Training Program Accreditation:

Program Volume Requirements	
Accreditation Eligibility	Minimum Annual Volume
Total Transplant Volume (any organ combination)	75
Multi-organ Procurements	25

Program Volume Requirements	
BTF Category Volumes	
Accreditation Type	Minimum Annual Volume
BTF-Kidney	60 Kidney and 18 Living Donor Nephrectomy
BTF-Liver	50
BTF-Kidney/Liver	60 Kidney, 18 Living Donor Nephrectomy, 50 Liver

Note: The minimum kidney and liver volumes are included in the Total Transplant Volume (TTV). In order to gain and maintain accreditation in kidney or liver, programs must perform a minimum of 60 kidney cases per year, 18 Living Donor Nephrectomy cases per year, and/or 50 liver cases per year.

The following table illustrates the program volumes necessary to support various numbers of fellows. The TACC will determine the maximum number of fellows the program is eligible to train over a 24-month period, based on the volumes provided within your accreditation application. The program will determine the number of fellows they wish to train each year based on their maximum allowance. For



**Annual Program Volumes for Fellowship Training Program Accreditation
Revised June 2018**

example, if the TACC determines that a program has the volume to support training 4 fellows every 2 years, the program can decide if they want to match 2 fellows per year, alternating 1 and 3 per year, etc.

PROGRAM VOLUME REQUIREMENTS				
BTF-KIDNEY				
	1 every other year	1 every year	3 every 2 years	2 per year
REQUIRED ANNUAL KIDNEY VOLUME	60 Kidney 18 LDN	60 Kidney 18 LDN	60 Kidney 18 LDN	60 Kidney 18 LDN
BTF-LIVER				
REQUIRED ANNUAL LIVER VOLUME	50	50	68	90
BTF-KIDNEY/LIVER				
REQUIRED ANNUAL KIDNEY VOLUME	60 Kidney 18 LDN	60 Kidney 18 LDN	60 Kidney 18 LDN	60 Kidney 18 LDN
REQUIRED ANNUAL LIVER VOLUME	50	50	68	90

The following table illustrates the fellow volumes necessary to be eligible for a certificate of completion in the BTF Categories. These volumes represent the total cases performed over the entire 24-month fellowship.

FELLOW VOLUME REQUIREMENTS				
BTF-KIDNEY				
	Total Transplant Volume	Multi-organ Procurements	Kidney Case Volumes	Liver Case Volumes
REQUIRED FELLOW VOLUME	50	25	40 Kidney 12 LDN*	n/a
BTF-LIVER				
REQUIRED FELLOW VOLUME	50	25	n/a	45
BTF-KIDNEY/LIVER				
REQUIRED FELLOW K & L VOLUME	50	25	40 Kidney 12 LDN*	45

* See Appendix D for LDN requirements

Note: All logged cases will be included in the Total Transplant Volume (TTV) requirement for fellows. For example, if a fellow logs 60 kidney transplants and 12 Living Donor Nephrectomy cases during their 24-month fellowship, this would complete the TTV requirement and the BTF-Kidney requirement. If a



**Annual Program Volumes for Fellowship Training Program Accreditation
Revised June 2018**

fellow logs only 45 kidney transplants during their 24-month fellowship training, this would meet only the BTF-Kidney requirement. The fellow would need a minimum of 5 additional organ transplants to meet the TTV requirement. These additional transplants are not organ specific and can include any abdominal organ transplant procedure. Fellows who fail to achieve the TTV of 50 will not be considered eligible for a certificate of completion.

Specialized Transplant Fellowship (STF) Categories

The following minimum program volumes are required for Fellowship Training Program Accreditation in STF Categories. The ASTS will only accredit programs to train in these categories and will NOT determine how many fellows are eligible for training. Programs will make this determination internally, up to the total number of approved fellows in the BTF and will be required to notify the ASTS prior to the completion of the fellows' training, which fellows will receive this training.

Program Volume Requirements	
STF Category Volumes	
Accreditation Type	Minimum Annual Volume
STF - Pancreas	10
STF - Intestine	10
STF - Hepatobiliary*	50
STF - Hepato-pancreato-biliary*	75

*See Appendix A for detailed volumes regarding HB and HPB training accreditation.

*See also Appendix B for non-volumetric requirements for HB and HPB training accreditation.

Note: Only programs accredited in BTF-L or BTF-K/L categories will be eligible to train in intestinal transplantation and/or HB or HPB training.



**Annual Program Volumes for Fellowship Training Program Accreditation
Revised June 2018**

Fellow Volume Requirements

The following table illustrates the **fellow volumes** necessary to be eligible for a certificate of completion in the STF Categories. These volumes represent the total cases performed over the entire 24-month fellowship.

FELLOW VOLUME REQUIREMENTS						
STF-PANCREAS						
	Total Transplant Volume	Multi-organ Procurements	Pancreas Case Volumes	Intestine Case Volumes	HB Case Volumes	HPB Case Volumes
REQUIRED FELLOW P VOLUME	50	25	10 Transplants in the principal role 10 Back table preparations 10 Pancreas procurements	n/a	n/a	n/a
STF- INTESTINE						
REQUIRED FELLOW I VOLUME	50	25	n/a	10	n/a	n/a
STF- HB (SEE APPENDIX B FOR DETAILED CASE BREAKDOWN)						
REQUIRED FELLOW HB VOLUME	50	25	n/a	n/a	35	n/a
STF- HPB (SEE APPENDIX B FOR DETAILED CASE BREAKDOWN)						
REQUIRED FELLOW HPB VOLUME	50	25	n/a	n/a	35	15

See Appendix C for details on HB and HPB operative fellow volumes.

**Annual Program Volumes for Fellowship Training Program Accreditation
Revised June 2018**

Appendix A: HB/HPB Program Operative Annual Volume Requirements

HB/HPB Program Volume Requirements	
HB	HPB
50 or more major HB cases per year, consecutively for no less than 2 years	Program must meet all the criteria for the HB program, in addition to:
35 or more major hepatic and gallbladder procedures per year, consecutively for no less than 2 years: <ul style="list-style-type: none"> i. 20 or more major anatomic hepatectomy procedures which involve the resection of 2 or more segments of the liver and include living donor hepatectomy and deceased donor split liver procurement; At least 50% of these major procedures must be non-transplant (non-donor) related cases. ii. Major non-anatomic resection or enucleation (e.g. for symptomatic cystic disease, hemangioma, gallbladder CA and metastatic liver tumors). 	25 or more major non-transplant related pancreatic procedures per year, consecutively for no less than 2 years. These procedures are defined as: <ul style="list-style-type: none"> i. Pancreaticoduodenectomy ii. Total or partial pancreatectomy iii. Pancreatic drainage procedure (puestow, cyst-jejunostomy, etc)
15 or more complex biliary procedures per year (excluding CBD-CBD anastomosis during liver transplantation), consecutively for no less than 2 years: <ul style="list-style-type: none"> i. Bile duct resection and reconstruction ii. Bile duct reconstruction without resection, i.e. Roux-en-y hepatico-jejunostomy (no more than 5 cases of same-setting OLT and Roux-en-y hepatico-jejunostomy can be credited) 	



**Annual Program Volumes for Fellowship Training Program Accreditation
Revised June 2018**

Appendix B: HB/HPB Program Non-Volumetric Requirements

HB/HPB Program Non-Volumetric Requirements
<p>A. The program must have a multidisciplinary committee that consists of at least the following members (i.e. Multidisciplinary Tumor Board): HPB surgeon (ASTS or AHPBA/IHPBA member), endoscopist, medical oncologist, interventional radiologist, and diagnostic radiologist which meet on a regular basis to assist in management of complicated HPB patients.</p>
<p>B. The program must provide evidence of a structured educational and training experience in comprehensive, state-of-the-art medical and surgical management of patients with surgical diseases of the liver, gallbladder, biliary tract and pancreas.</p> <ul style="list-style-type: none">i. The program must provide clinical experience in multidisciplinary approach in the investigation, diagnosis, operative and non-operative treatments as well as peri-operative care of HPB patients in both the in-patient and out-patient settings.ii. Didactics on HPB surgical diseases that include surgical and non-surgical adjuvant therapies such as chemotherapy, radiation therapy, or ablation (i.e. HPB path conference, seminars, lecture series, journal club, roundtable discussions)



**Annual Program Volumes for Fellowship Training Program Accreditation
Revised June 2018**

Appendix C: HB/HPB Fellow Operative Volume Requirements (over 24-month fellowship)

HB/HPB Fellow Operative Volume Requirements	
HB	HPB
Fellow must complete training in an ASTS accredited liver transplant program and meet all the requirements for training certification in liver transplantation.	Fellow must complete training in an ASTS accredited liver transplant program and meet all the requirements for training certification in liver transplantation.
Fellow must regularly participate in multidisciplinary operative and non-operative decision-making process and treatment approaches (i.e. radiofrequency ablation, neoadjuvant/adjuvant therapies) as well as in the perioperative management of patients with diseases of the liver, biliary system, and pancreas preferably in the context of a multidisciplinary conference.	Fellow must regularly participate in multidisciplinary operative and non-operative decision-making process and treatment approaches (i.e. radiofrequency ablation, neoadjuvant/adjuvant therapies) as well as in the perioperative management of patients with diseases of the liver, biliary system, and pancreas preferably in the context of a multidisciplinary conference.
35 major hepatic resections over 24-month fellowship: <ul style="list-style-type: none"> i. 15 hemihepatectomies (no more than 6 liver transplant related hepatectomy procedures can be credited) ii. 15 biliary procedures (no more than 5 same-setting OLT and Roux-en-y hepaticojejunostomy can be credited) 	All HB criteria, in addition to: <ul style="list-style-type: none"> i. 15 non-transplant major pancreatic procedures (defined in the program criteria section)



**Annual Program Volumes for Fellowship Training Program Accreditation
Revised June 2018**

Appendix D: Living Donor Nephrectomy Requirements (over 24-month fellowship)

LDN Fellow Operative Volume Requirements
Living Donor Nephrectomy (LDN)
Fellow must perform a minimum of 12 living donor nephrectomies over the 24-month fellowship.
Fellow must participate in preoperative evaluation of LDN donors and manage postoperative care. Multi-disciplinary care of these patients should be inherent in the Kidney Training program.
Program Director will designate whether fellow <i>has had training</i> in LDN or has had <i>exposure</i> in LDN. In order for the fellow to be designated to have been trained case logs must indicate minimum number of cases as primary surgeon.