Public Comment Proposal

Addressing Approved Transplant Fellowship Training Programs Bylaws

OPTN/UNOS Membership and Professional Standards Committee

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Addressing Approved Transplant Fellowship Training Programs Bylaws

Affected Bylaws:

OPTN Bylaws Appendices E.2.A (Formal 2-year Transplant Fellowship Pathway), E.3.A (Transplant Nephrology Fellowship Pathway), E.3.C (Three-year Pediatric Nephrology Fellowship Pathway), E.3.D (Twelvemonth Pediatric Transplant Nephrology Fellowship Pathway), E.3.E (Combined Pediatric Nephrology Training and Experience Pathway), E.4.A (Transplant Surgeon Fellowship Training Programs), E.4.B (Transplant Physician Fellowship Training Programs), E.5.C (Conditional Approval for a Pediatric Component), E.6.D (Primary Open Living Donor Kidney Surgeon), F.3.A (Formal 2-year Transplant Fellowship Pathway), F.6 (Approved Liver Surgeon Transplant Fellowship Programs), F.11.A (Full Intestine Surgeon Approval Pathway), F.14 (Approved Intestine Surgeon Transplant Fellowship Programs), G.2.A (Formal 2-year Transplant Fellowship Pathway), G.3.A (Twelve-month Transplant Medicine Fellowship Pathway), G.7 (Approved Pancreas Transplant Surgeon Fellowship Training Programs), J.3.A (Additional Primary Surgeon Requirements for Upper Limb Transplant Programs), and J.3.B (Additional Primary Surgeon Requirements for Head and Neck Transplant Programs) Membership and Professional Standards July 31, 2017 - October 2, 2017

Sponsoring Committee: Public Comment Period:

Executive Summary

A number of abdominal key personnel training pathways in the Bylaws require that the training occurred at a fellowship program "approved by the MPSC," and that the Membership and Professional Standards Committee (MPSC) will review training programs "every five years or any time the program director changes." The MPSC does not regularly review or formally approve transplant training programs, nor has it done so historically. This proposal recommends deleting Bylaws that reference the MPSC's "approval" and routine review of transplant fellowship programs to address this discrepancy, while retaining language that validates the rigor of the training program cited by a key personnel applicant applying through one of the Bylaws' "training pathways." The proposal also recommends some clerical changes to simplify these Bylaws sections. Making these proposed changes to the Bylaws supports the OPTN strategic plan goal of promoting the efficient management of the OPTN.

What problem will this proposal address?

There is disparity between what is stated in the Bylaws and what the MPSC actually does when considering the transplant training program of key personnel applicants who apply through one of the Bylaws' "training pathways." Some of the abdominal key personnel training pathways in the Bylaws require that the training occurred at a fellowship program "approved by the MPSC," and that the MPSC will review training programs "every five years or any time the program director changes." Although the MPSC does review where a key personnel applicant applying through one of the training pathways gained their fellowship experience, the MPSC does not formally approve or regularly review transplant training programs, nor has it done so historically.

Why should you support this proposal?

This proposal addresses longstanding Bylaws (the OPTN/UNOS Board of Directors adopted the earliest version of these requirements in November 1987) that establish MPSC actions that have never been formally undertaken by the MPSC. This proposal eliminates this discrepancy between the Bylaws and how the MPSC functionally operates, while retaining language to define what types of transplant fellowship training programs are acceptable for the purposes of evaluating prospective primary transplant surgeons or primary transplant physicians who apply through one of the Bylaws key personnel "training pathways." Adopting this proposal will effectively align the Bylaws with how the MPSC currently operates when reviewing transplant fellowship programs during the evaluation of key personnel applicants who apply through one of the training pathways in the Bylaws.

How was this proposal developed?

The Bylaws addressed in this proposal evolved directly from language that the OPTN/UNOS Board of Directors originally adopted in November 1987. The Board adopted these Bylaws to define what constituted an accepted training program for evaluating individuals' qualifications to serve as transplant program key personnel. Prior to the Board's decision in November 1987, key personnel requirements were rather basic; for example, primary transplant surgeons needed to be board certified and have one year of "formal training" and one year of experience at a designated transplant program, or three years of experience at a designated transplant program, or three years of experience at a designated transplant program. In processing these early membership applications, the MPSC recognized a need to develop operational guidelines for defining what constituted "formal training." Subsequent to the development and usage of these operational guidelines, the MPSC recommended their incorporation in the Bylaws. The Board heeded this recommendation, and adopted the MPSC's "formal training" operational guidelines as Bylaws in November 1987.

The Board originally adopted these basic membership requirements to establish a standard that every transplant program is led by experienced individuals. As the field of transplantation began to develop, little distinction was made between training and experience because transplantation was a new field in which new experiences facilitated new knowledge and training. As transplantation became more commonplace and mature as a medical specialty, it was necessary to distinguish appropriate experience gained through training as compared to experience gained during clinical practice for the purpose of recognizing well-qualified key personnel. During the initial development of these Bylaws in the late eighties, extensive, closely-supervised training was provided through programs approved by the American Society of Transplant Surgeons (ASTS). This is reflected in the "formal training" criteria adopted by the OPTN/UNOS Board of Directors in 1987, which includes automatic approval of programs approved for training by ASTS.

Although it is well accepted that ASTS is the leader in establishing surgical transplant training curriculums and certifying transplant surgery training programs, the OPTN is prohibited from endorsing a single entity or business due to anti-competitive legal considerations. To avoid these concerns, the Bylaws also include explicit requirements that detail necessary components of a non-ASTS approved surgical training program. These Bylaws provide a means other than through an ASTS-approved fellowship program to qualify as a transplant program's primary surgeon through an OPTN Bylaws training pathway.

As transplantation has grown and evolved, so have the requirements in the key personnel Bylaws. Key personnel Bylaws now include organ specific considerations and a number of more detailed requirements. Although the key personnel requirements have increased in number and rigor, the Bylaws originally adopted in November 1987 that detail what "formal training" entails are quite similar to current Bylaws, including an expectation that transplant training programs are reviewed every five years, or when the program director changes.

The MPSC has raised questions about the requirement to review transplant training programs, recognizing that the MPSC does not perform such reviews, nor has it done so historically. Furthermore, the MPSC believes that the logistics and resources necessary to regularly monitor fellowship training program requirements would be significant, and likely duplicative of fellowship evaluations and accreditations performed by other organizations. The disparity between what is required in the Bylaws and how the MPSC actually operates prompted the Committee to review the Bylaws pertaining to transplant fellowship program approval by the MPSC.

As the majority of the problematic Bylaws regarding transplant fellowship approval pertain to abdominal primary transplant surgeons, and considering ASTS' role in developing surgical transplant fellowship curriculum, the MPSC engaged ASTS representatives to provide its feedback and recommendations for modifying these Bylaws. Discussion yielded agreement that the scope of the proposed changes should be focused on the elimination of problematic Bylaws language regarding the MPSC review and approval process, and other changes that would streamline these sections of the Bylaws. The proposed Bylaws changes to those sections that pertain to primary kidney transplant surgeons, primary open living donor kidney surgeons, primary liver transplant surgeons, primary pancreas transplant surgeons, and primary intestine transplant surgeons provided at the end of this proposal are the product of the recommendations provided by ASTS.

Of these proposed edits, the most significant is the elimination of the problematic language regarding MPSC review and approval of fellowship programs. The remaining proposed deletions reflect the elimination of duplicative requirements found elsewhere in the Bylaws or requirements that are arbitrary and thus unenforceable. The few instances of proposed new language reflects an attempt to communicate more clearly the remaining requirements in these Bylaws pertaining to surgical transplant fellowships.

Following the review of those Bylaws focused on surgical transplant fellowships, the MPSC proceeded to engage representatives from the American Society of Transplantation (AST) to address similar problematic language found in OPTN Bylaws Appendix E.4.B (Transplant Physician Fellowship Training Programs), which addresses fellowship experience cited by primary kidney transplant physician applicants. Conversations with AST yielded similar changes: elimination of the problematic language regarding MPSC review and approval of transplant nephrology fellowships; elimination of requirements that are arbitrary to evaluate or duplicative of requirements established elsewhere in the Bylaws; and addition of language intended to make the remaining requirements clearer (included in these additions are formatting changes to align the structure of Appendix E.4.B with what is proposed for the those sections that focus on abdominal surgical transplant fellowships).

A few of the proposed changes to OPTN Bylaws Appendix E.4.B cannot be appropriately labeled with any of these general themes, and are detailed further here. First, the volume of kidney transplants that the training program must perform has been modified to align with what is currently required by the AST Adult Transplant Nephrology Fellowship Training Accreditation Program (a similar change is also proposed in OPTN Bylaws Appendix E.3.A.).¹ Additionally, it is proposed that the biopsy requirement in Appendix E.4.B.5 be eliminated. This section focuses on fellowship program requirements, not individual fellow requirements, and the MPSC believes fellow-specific requirements should be removed from this section. This proposal does not include this requirement elsewhere in the Bylaws, as the inclusion of a biopsy requirement was specifically considered, and ultimately not proposed, with the MPSC's proposal to

¹ http://www.txnephaccreditation.org/list-eligibility-criteria

update the primary kidney transplant physician Bylaws that it distributed for public comment during fall 2016, and that the OPTN/UNOS Board of Directors adopted in December 2016.²

Review of these Bylaws by AST also prompted questions about language that requires transplant medicine fellowship curriculum to be approved by the respective Residency Review Committee (RRC) of the Accreditation Council for Graduate Medical Education (ACGME). Nephrologists representing AST indicated that the RRC/ACGME do not have a role in setting transplant fellowship curriculum, to the extent outlined in these Bylaws, for either nephrology or pancreas physicians. Feedback requested from pediatric transplant nephrologists echoed this sentiment as it pertains to pediatric transplant nephrology fellowships. Considering this guidance, the proposal recommends deleting these references to RRC/ACGME curriculum approval in OPTN Bylaws Appendices E.3.A, E.3.D, E.3.E, E.5.C, and G.3.A. It is important to note that this proposal does not include changes to RRC/ACGME program accreditation requirements found in OPTN Bylaws Appendix E.3.C and F.3.C (one reference is deleted in E.3.C, but only because it is duplicative of similar language found earlier in that section that will remain). These sections of the Bylaws establish a "training pathway" for individuals who completed a three-year pediatric nephrology fellowship and a three-year pediatric gastroenterology fellowship, respectively. As the RRC/ACGME does establish fellowship program requirements for these specialties, the MPSC believes that it is appropriate to retain these references in these sections of the Bylaws.^{3,4}

Finally, although Appendix J (Membership Requirements for Vascularized Composite Allograft (VCA) Transplant Programs) does not include language regarding periodic MPSC review of approved fellowship programs, it does reference fellowship programs that are "approved by the MPSC." For consistency throughout the Bylaws, edits are proposed to OPTN Bylaws Appendices J.3.A.2.A and J.3.B.2.A to remove references to "MPSC approved" fellowship programs. With these edits, these sections now just focus on what is required of VCA key personnel applicants without additional qualifiers reiterating that fellowship programs meeting these requirements will be accepted/approved by the MPSC.

How well does this proposal address the problem statement?

This proposal completely addresses the disparity between how the MPSC functionally operates and the process currently established in the Bylaws regarding the MPSC's ongoing review and approval of transplant fellowship programs. Further, the proposed changes preserve the Bylaws' recognition of ASTS and AST transplant fellowships while still providing a list of transplant fellowship program minimal requirements to accommodate the possibility of other non-ASTS/non-AST transplant fellowships, and with respects to federal anti-competitive statues.

This proposal could be criticized for proposing the deletion of Bylaws that differ from normal MPSC operations rather than changing the MPSC's operations such that it adheres to the process established in the Bylaws. The MPSC opted to modify the Bylaws as it did not believe it would be worthwhile for the OPTN to expend the significant resources that would be needed to review transplant fellowship programs regularly. To do so would unnecessarily duplicate the considerable effort and resources that other organizations already invest in this process.

Which populations are impacted by this proposal?

This proposal addresses Bylaws that establish an MPSC operational action that has historically not been performed. Adopting this proposal will effectively align the Bylaws with how the MPSC currently operates with respects to evaluating key personnel applicants applying through one of the Bylaws' training pathways. As such, there will be no impact to any part of the transplant community.

² https://optn.transplant.hrsa.gov/media/1998/mpsc_brief_kimd_201612.pdf#page=4

³ http://www.acgme.org/Portals/0/PFAssets/ProgramRequirements/328_nephrology_peds_2016.pdf

⁴ http://www.acgme.org/Portals/0/PFAssets/ProgramRequirements/332_gastroenterology_peds_2016.pdf

How does this proposal impact the OPTN Strategic Plan?

- 1. Increase the number of transplants: There is no impact to this goal.
- 2. Improve equity in access to transplants: There is no impact to this goal.
- 3. *Improve waitlisted patient, living donor, and transplant recipient outcomes*: There is no impact to this goal.
- 4. Promote living donor and transplant recipient safety: There is no impact to this goal.
- 5. Promote the efficient management of the OPTN: The efficient management of the OPTN is supported through these proposed changes by aligning the Bylaws with how the MPSC functionally operates with regards to the focus of this proposal and by increasing the consistency of key personnel requirements across all transplant program types.

How will the OPTN implement this proposal?

If public comment on this proposal is favorable, the MPSC would likely present these changes for the OPTN/UNOS Board of Directors' consideration at its December 2017 meeting. Assuming the Board adopts these changes, they would be effective on March 1, 2018.

Implementing the changes detailed in this proposal will align the Bylaws with how the MPSC currently operates when evaluating key personnel applicants who have applied through a "fellowship pathway." As such, the OPTN's implementation effort will primarily consist of updating the Bylaws found on the OPTN website on the effective date of these changes.

How will members implement this proposal?

No action will be required of members upon the implementation of these proposed Bylaws changes.

Will this proposal require members to submit additional data?

No, this proposal does not require additional data collection.

How will members be evaluated for compliance with this proposal?

This proposal primarily eliminates Bylaws that pertain to MPSC approval of fellowship training programs. Compliance with remaining Bylaws will be expected, but there are no member compliance considerations that directly result from these changes.

How will the sponsoring Committee evaluate whether this proposal was successful post implementation?

Considering the primary problem driving these proposed changes is operational in nature, deleting Bylaws as recommended in this proposal will successfully address this problem. Nevertheless, the MPSC will monitor if these changes yield consequences that it did not anticipate. Should any unanticipated negative consequences be realized, the MPSC would work towards another solution that corrects those.

Policy or Bylaws Language

Proposed new language is underlined (<u>example</u>) and language that is proposed for removal is struck through (<u>example</u>).

1 E.2 Primary Kidney Transplant Surgeon Requirements

A. Formal 2-year Transplant Fellowship Pathway

- Surgeons can meet the training requirements for primary kidney transplant surgeon by completing a <u>formal 2-year surgical</u> transplant fellowship if the following conditions are met:
 - The surgeon performed at least 30 kidney transplants as the primary surgeon or first assistant during the 2-year fellowship period. These transplants must be documented in the surgeon's fellowship operative log. The date of transplant, the role of the surgeon in the procedure, the medical record number or other unique identifier that can be verified by the OPTN Contractor, and the fellowship director's signature must be provided with this log.
- 2. The surgeon performed at least 15 kidney procurements as primary surgeon or first assistant. At least 10 of these procurements must be from deceased donors. These procurements must have been performed anytime during the surgeon's fellowship and the two years immediately following fellowship completion. These procedures must be documented in the surgeon's fellowship operative log. The date of procurement and Donor ID must be provided with this log.
 - 3. The surgeon has maintained a current working knowledge of kidney transplantation, defined as direct involvement in kidney transplant patient care in the last 2 years. This includes the management of patients with end stage renal disease, the selection of appropriate recipients for transplantation, donor selection, histocompatibility and tissue typing, performing the transplant operation, immediate postoperative and continuing inpatient care, the use of immunosuppressive therapy including side effects of the drugs and complications of immunosuppression, differential diagnosis of renal dysfunction in the allograft recipient, histological interpretation of allograft biopsies, interpretation of ancillary tests for renal dysfunction, and long term outpatient care.
- 4. This training was completed at a hospital with a kidney transplant training program approved by the Fellowship Training Committee of the American Society of Transplant Surgeons, the Royal College of Physicians and Surgeons of Canada, or <u>another recognized surgical</u> <u>fellowship training program</u> accepted by the OPTN Contractor as described in the Section E.4 Approved Kidney Transplant Surgeon and Physician Fellowship Training Programs that follows.
 - 5. The following letters are submitted directly to the OPTN Contractor:
 - a. A letter from the director of the training program and chairman of the department or hospital credentialing committee verifying that the surgeon has met the above requirements and is qualified to direct a kidney transplant program.
 - b. A letter of recommendation from the fellowship training program's primary surgeon and transplant program director outlining the surgeon's overall qualifications to act as a primary transplant surgeon, as well as the surgeon's personal integrity, honesty, and familiarity with and experience in adhering to OPTN obligations, and any other matters judged appropriate. The MPSC may request additional recommendation letters from the primary physician, primary surgeon, director, or others affiliated with any transplant program previously served by the surgeon, at its discretion.

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- c. A letter from the surgeon that details the training and experience the surgeon has gained in kidney transplantation.
- 46 E.3 Primary Kidney Transplant Physician Requirements
 - A. Transplant Nephrology Fellowship Pathway
 - Physicians can meet the training requirements for a primary kidney transplant physician during a separate transplant nephrology fellowship if the following conditions are met:
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- 58 2. During the fellowship period, the physician was directly involved in the primary care of 30 or 59 more newly transplanted kidney recipients and continued the outpatient follow-up of these 60 recipients for a minimum of 3 months from the time of transplant. If the physician's fellowship 61 was longer than 12 months, the physician also must have been directly involved in the 62 outpatient follow-up of at least 30 kidney recipients for an additional period of 3 consecutive 63 months. The care must be documented in a log that includes the date of transplant and the 64 recipient medical record number or other unique identifier that can be verified by the OPTN 65 Contractor. This recipient log must be signed by the director of the training program or the 66 transplant program's primary transplant physician.
 - 3. During the fellowship period, the physician was directly involved in the evaluation of 25 potential kidney recipients, including participation in selection committee meetings. These potential kidney recipient evaluations must be documented in a log that includes each evaluation date and is signed by the director of the training program or the transplant program's primary transplant physician.
 - 4. During the fellowship period, the physician was directly involved in the evaluation of 10 potential living kidney donors, including participation in selection committee meetings. These potential living kidney donor evaluations must be documented in a log that includes each evaluation date and the potential living kidney donor's medical record number or other unique identifier than can be verified by the OPTN Contractor. This potential living kidney donor evaluation log must be signed by the director of the training program or the transplant program's primary transplant physician.
- 79 5. The physician has maintained a current working knowledge of kidney transplantation, defined 80 as direct involvement in kidney transplant care in the last 2 years. This includes the 81 management of patients with end stage renal disease, the selection of appropriate recipients 82 for transplantation, donor selection, histocompatibility and tissue typing, immediate 83 postoperative patient care, the use of immunosuppressive therapy including side effects of 84 the drugs and complications of immunosuppression, differential diagnosis of renal 85 dysfunction in the allograft recipient, histological interpretation of allograft biopsies, 86 interpretation of ancillary tests for renal dysfunction, and long term outpatient care. The 87 curriculum for obtaining this knowledge should be approved by the Residency Review Committee for Internal Medicine (RRC-IM) of the Accreditation Council for Graduate Medical 88 89 Education (ACGME).

6. The physician must have observed at least 3 kidney procurements, including at least 1 deceased donor and 1 living donor. The physician must have observed the evaluation, donation process, and management of these donors. These observations must be documented in a log that includes the date of procurement and Donor ID. 7. The physician must have observed at least 3 kidney transplants. The observation of these transplants must be documented in a log that includes the transplant date, donor type, and medical record number or other unique identifier that can be verified by the OPTN Contractor. 8. The following letters are submitted directly to the OPTN Contractor: a. A letter from the director of the training program and the supervising gualified kidney transplant physician verifying that the physician has met the above requirements and is qualified to direct a kidney transplant program. b. A letter of recommendation from the fellowship training program's primary physician and transplant program director outlining the physician's overall gualifications to act as a primary transplant physician, as well as the physician's personal integrity, honesty, and familiarity with and experience in adhering to OPTN obligations and compliance protocols, and any other matters judged appropriate. The MPSC may request additional recommendation letters from the primary physician, primary surgeon, director, or others

affiliated with any transplant program previously served by the physician, at its discretion.c. A letter from the physician that details the training and experience the physician has gained in kidney transplantation.

The training requirements outlined above are in addition to other clinical requirements for general nephrology training.

C. Three-year Pediatric Nephrology Fellowship Pathway

A physician can meet the requirements for primary kidney transplant physician by completion of 3 years of pediatric nephrology fellowship training as required by the American Board of Pediatrics in a program accredited by the Residency Review Committee for Pediatrics (RRC-Ped) of the ACGME. The training must contain at least 6 months of clinical care for transplant patients, and the following conditions must be met:

- 1. During the 3-year training period the physician was directly involved in the primary care of 10 or more newly transplanted kidney recipients for at least 6 months from the time of transplant and followed 30 transplanted kidney recipients for at least 6 months, under the direct supervision of a qualified kidney transplant physician and in conjunction with a qualified kidney transplant surgeon. The pediatric nephrology program director may elect to have a portion of the transplant experience completed at another kidney transplant program in order to meet these requirements. This care must be documented in a log that includes the date of transplant, and the recipient medical record number or other unique identifier that can be verified by the OPTN Contractor. This recipient log must be signed by the training program's director or the primary physician of the transplant program.
 - 2. The experience caring for pediatric patients occurred with a qualified kidney transplant physician and surgeon at a kidney transplant program that performs an average of at least 10 pediatric kidney transplants a year.
- 1343. During the fellowship period, the physician was directly involved in the evaluation of 25135potential kidney recipients, including participation in selection committee meetings. These136potential kidney recipient evaluations must be documented in a log that includes each137evaluation date and is signed by the director of the training program or the transplant138program's primary transplant physician.

139	4.	The physician has maintained a current working knowledge of kidney transplantation, defined
140		as direct involvement in kidney transplant patient care over the last 2 years. This includes the
141		management of pediatric patients with end-stage renal disease, the selection of appropriate
142		pediatric recipients for transplantation, donor selection, histocompatibility and tissue typing,
143		immediate post-operative care including those issues of management unique to the pediatric
144		recipient, fluid and electrolyte management, the use of immunosuppressive therapy in the
145		pediatric recipient including side-effects of drugs and complications of immunosuppression,
146		the effects of transplantation and immunosuppressive agents on growth and development,
147		differential diagnosis of renal dysfunction in the allograft recipient, manifestation of rejection
148		in the pediatric patient, histological interpretation of allograft biopsies, interpretation of
149		ancillary tests for renal dysfunction, and long-term outpatient care of pediatric allograft
150		recipients including management of hypertension, nutritional support, and drug dosage,
151		including antibiotics, in the pediatric patient. The curriculum for obtaining this knowledge must
152	_	be approved by the Residency Review Committee (RRC) -Ped of the ACGME.
153	5.	The physician must have observed at least 3 kidney procurements, including at least 1
154		deceased donor and 1 living donor. The physician must have observed the evaluation,
155		donation process and management of these donors. These observations must be
156		documented in a log that includes the date of procurement and Donor ID.
157	6.	The physician must have observed at least 3 kidney transplants involving a pediatric
158		recipient. The observation of these transplants must be documented in a log that includes the
159		transplant date, donor type, and medical record number or other unique identifier that can be
160		verified by the OPTN Contractor.
161	7.	The following letters are submitted directly to the OPTN Contractor:
162		a. A letter from the director and the supervising qualified transplant physician and surgeon
163		of the fellowship training program verifying that the physician has met the above
164		requirements and is qualified to direct a kidney transplant program.
165		b. A letter of recommendation from the fellowship training program's primary physician and
166		transplant program director outlining the physician's overall qualifications to act as a
167		primary transplant physician, as well as the physician's personal integrity, honesty, and
168		familiarity with and experience in adhering to OPTN obligations, and any other matters
169		judged appropriate. The MPSC may request additional recommendation letters from the
170		primary physician, primary surgeon, director, or others affiliated with any transplant
171		program previously served by the physician, at its discretion.
172		c. A letter from the physician that details the training and experience the physician has
173		gained in kidney transplantation.
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175	D.	Twelve-month Pediatric Transplant Nephrology Fellowship
176		Pathway
177	The	e requirements for the primary kidney transplant physician can be met during a separate
178		liatric transplant nephrology fellowship if the following conditions are met:
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180	1	The physician has current board certification in pediatric nephrology by the American Board
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181 182		of Pediatrics, the Royal College of Physicians and Surgeons of Canada, or is approved by
182	S	the American Board of Pediatrics to take the certifying exam.
183	Ζ.	During the fellowship, the physician was directly involved in the primary care of 10 or more
184		newly transplanted kidney recipients for at least 6 months from the time of transplant and
185		followed 30 transplanted kidney recipients for at least 6 months, under the direct supervision
186		of a qualified kidney transplant physician and in conjunction with a qualified kidney transplant

187 surgeon. The pediatric nephrology program director may elect to have a portion of the 188 transplant experience completed at another kidney transplant program in order to meet these 189 requirements. This care must be documented in a recipient log that includes the date of 190 transplant, and the recipient medical record number or other unique identifier that can be 191 verified by the OPTN Contractor. This log must be signed by the training program director or 192 the primary physician of the transplant program. 193 3. The experience in caring for pediatric patients occurred at a kidney transplant program with a 194 qualified kidney transplant physician and surgeon that performs an average of at least 10 195 pediatric kidney transplants a year. 196 4. During the four years that include the physician's three-year pediatric nephrology fellowship 197 and twelve-month pediatric transplant nephrology fellowship, the physician was directly 198 involved in the evaluation of 25 potential kidney recipients, including participation in selection 199 committee meetings. These potential kidney recipient evaluations must be documented in a 200 log that includes each evaluation date and is signed by the director of the training program or 201 the transplant program's primary transplant physician. 202 5. The physician has maintained a current working knowledge of kidney transplantation, defined 203 as direct involvement in kidney transplant patient care in the past 2 years. This includes the 204 management of pediatric patients with end-stage renal disease, the selection of appropriate 205 pediatric recipients for transplantation, donor selection, histocompatibility and tissue typing, immediate post-operative care including those issues of management unique to the pediatric 206 207 recipient, fluid and electrolyte management, the use of immunosuppressive therapy in the 208 pediatric recipient including side-effects of drugs and complications of immunosuppression, 209 the effects of transplantation and immunosuppressive agents on growth and development, 210 differential diagnosis of renal dysfunction in the allograft recipient, manifestation of rejection 211 in the pediatric patient, histological interpretation of allograft biopsies, interpretation of 212 ancillary tests for renal dysfunction, and long-term outpatient care of pediatric allograft 213 recipients including management of hypertension, nutritional support, and drug dosage, 214 including antibiotics, in the pediatric patient. The curriculum for obtaining this knowledge must 215 be approved by the Residency Review Committee (RRC) -Ped of the ACGME. 216 6. The physician must have observed at least 3 kidney procurements, including at least 1 217 deceased donor and 1 living donor. The physician must have observed the evaluation, 218 donation process, and management of these donors. These observations must be 219 documented in a log that includes the date of procurement and Donor ID. 220 7. The physician must have observed at least 3 kidney transplants involving a pediatric 221 recipient. The observation of these transplants must be documented in a log that includes the 222 transplant date, donor type, and medical record number or other unique identifier that can be 223 verified by the OPTN Contractor. 224 8. The following letters are submitted directly to the OPTN Contractor: 225 a. A letter from the director and the supervising qualified transplant physician and surgeon 226 of the fellowship training program verifying that the physician has met the above 227 requirements and is gualified to become the primary transplant physician of a designated 228 kidney transplant program. 229 b. A letter of recommendation from the fellowship training program's primary physician and 230 transplant program director outlining the physician's overall gualifications to act as a 231 primary transplant physician, as well as the physician's personal integrity, honesty, and 232 familiarity with and experience in adhering to OPTN obligations, and any other matters 233 judged appropriate. The MPSC may request additional recommendation letters from the 234 primary physician, primary surgeon, director, or others affiliated with any transplant 235 program previously served by the physician, at its discretion.

c. A letter from the physician that details the training and experience the physician has gained in kidney transplantation.

E. Combined Pediatric Nephrology Training and Experience Pathway

A physician can meet the requirements for primary kidney transplant physician if the following conditions are met:

- The physician has current board certification in pediatric nephrology by the American Board of Pediatrics, the Royal College of Physicians and Surgeons of Canada, or is approved by the American Board of Pediatrics to take the certifying exam.
 - 2. The physician gained a minimum of 2 years of experience during or after fellowship, or accumulated during both periods, at a kidney transplant program.
- 3. During the 2 or more years of accumulated experience, the physician was directly involved in the primary care of 10 or more newly transplanted kidney recipients for at least 6 months from the time of transplant and followed 30 transplanted kidney recipients for at least 6 months, under the direct supervision of a qualified kidney transplant physician, along with a qualified kidney transplant surgeon. This care must be documented in a recipient log that includes the date of transplant, and the recipient medical record number or other unique identifier that can be verified by the OPTN Contractor. This log must be signed by the training program director or the primary physician of the transplant program.
 - 4. The physician was directly involved in the evaluation of 25 potential kidney recipients, including participation in selection committee meetings. These potential kidney recipient evaluations must is documented in a log that includes each evaluation date and be signed by the program director, division Chief, or department Chair from the program where the physician gained this experience.
- 5. The physician has maintained a current working knowledge of kidney transplantation, defined as direct involvement in kidney transplant patient care during the past 2 years. This includes the management of pediatric patients with end-stage renal disease, the selection of appropriate pediatric recipients for transplantation, donor selection, histocompatibility and tissue typing, immediate post-operative care including those issues of management unique to the pediatric recipient, fluid and electrolyte management, the use of immunosuppressive therapy in the pediatric recipient including side-effects of drugs and complications of immunosuppression, the effects of transplantation and immunosuppressive agents on growth and development, differential diagnosis of renal dysfunction in the allograft recipient, manifestation of rejection in the pediatric patient, histological interpretation of allograft biopsies, interpretation of ancillary tests for renal dysfunction, and long-term outpatient care of pediatric allograft recipients including management of hypertension, nutritional support, and drug dosage, including antibiotics, in the pediatric patient. The curriculum for obtaining this knowledge must be approved by the Residency Review Committee (RRC) -Ped of the ACGME or a Residency Review Committee.
 - 6. The physician must have observed at least 3 kidney procurements, including at least 1 deceased donor and 1 living donor. The physician must have observed the evaluation, donation process, and management of these donors. These observations must be documented in a log that includes the date of procurement and Donor ID.
- The physician must have observed at least 3 kidney transplants involving a pediatric
 recipient. The observation of these transplants must be documented in a log that includes the
 transplant date, donor type, and medical record number or other unique identifier that can be
 verified by the OPTN Contractor.

284 285 286 287 288 289 290 291 292 293 294 295 296		 8. The following letters are submitted directly to the OPTN Contractor: a. A letter from the supervising qualified transplant physician and surgeon who were directly involved with the physician documenting the physician's experience and competence. b. A letter of recommendation from the fellowship training program's primary physician and transplant program director outlining the physician's overall qualifications to act as a primary transplant physician, as well as the physician's personal integrity, honesty, and familiarity with and experience in adhering to OPTN obligations, and any other matters judged appropriate. The MPSC may request additional recommendation letters from the primary physician, primary surgeon, Director, or others affiliated with any transplant program previously served by the physician, at its discretion. c. A letter from the physician that details the training and experience the physician has gained in kidney transplantation.
297 298	E.4	Approved Kidney Transplant Surgeon and Physician Fellowship Training Programs
299		A. Transplant Surgeon Fellowship Training Programs
300 301 302 303 304 305 306		Surgeons qualifying as primary transplant surgeon based on completion of a <u>formal</u> 2-year formal <u>surgical</u> transplant fellowship must complete their training at a fellowship program approved by the <u>American Society of Transplant Surgeons</u> , the Royal College of Physicians and Surgeons of <u>Canada</u> , or another recognized fellowship training program accepted by the OPTN Contractor MPSC. Any program approved for training by the Fellowship Training Committee of the American Society of Transplant Surgeons is automatically accepted by the MPSC, as well as any program that meets the following criteria:
307 308 309		 The program is at a <u>transplant</u> hospital that transplants one or more organs, including kidneys.
310		2. The program is at an institution that has ACGME approved training in general surgery-a
311 312		proven commitment to graduate medical education. 3. The program director is a board-certified surgeon who meets the OPTN Contractor
313		requirements for primary kidney transplant surgeon.
314		4. The program is at a hospital that is affiliated with a histocompatibility laboratory that meets
315		the OPTN Contractor requirements for histocompatibility laboratories.
316		5. The program is at a hospital that is affiliated with an organ procurement organization (OPO)
317 318		that meets the OPTN Contractor requirements for OPOs. 63. The program performs at least 60 kidney transplants <u>during</u> each year <u>of the fellowship</u>
319		training from deceased or living donors.
320		7. The program has the resources, including adequate clinical facilities, laboratory research
321		facilities, and appropriately trained faculty and staff, to provide research experience.
322		
323		Training programs are reviewed by the MPSC every 5 years or any time the program director
324		changes. If a program has no fellows during the 5 years between reviews, it must re-apply as a
325		new program.
326		
327		B. Transplant Physician Fellowship Training Programs
328		A formal training program for primary kidney transplant physicians requires that training must be
329		completed at a program approved by the MPSC. Any training program approved by the AST

330		Adult Renal Transplant Training Accreditation Program is automatically accepted by the MPSC,				
331		as well as any program that meets the following criteria:				
332		Physicians qualifying as primary transplant physician based on completion of a formal transplant				
333		fellowship must complete their training at a fellowship program approved by the American Society				
334		of Transplantation Adult Transplant Nephrology Fellowship Training Program, the Royal College				
335		of Physicians and Surgeons of Canada, or another recognized fellowship training program				
336		accepted by the OPTN Contractor that meets the following criteria:				
337						
338		1. The program is at a transplant hospital that transplants one or more organs, including				
339		kidneys. must be OPTN approved as a kidney transplant program and be affiliated with an				
340		ACGME approved nephrology program. Transplant programs that are not OPTN approved or				
341		affiliated with an ACGME approved nephrology program will be evaluated on a case-by-case				
342		basis.				
343		The program is at a hospital that has an ACGME approved nephrology program.				
344		23. The program performs at least 50 kidney transplants per year if the program is training one				
345		transplant nephrology fellow, and performs at least 30 additional kidney transplants per year				
346		for each additional fellow it trains. The program must perform at least 10 kidney transplants				
347		per year for each first year, general nephrology fellow in training and an additional 30				
348		transplants per year for each kidney transplant fellow to be trained.				
349		34. The program's must have a full-time faculty member or members capable of teaching a				
350		curriculum with a broad base of knowledge in transplant medicine. The curriculum must				
351		include training and experience in end-stage renal disease, training in the selection of				
352		appropriate transplant recipients and donors, experience in the immediate and long term care				
353		of the transplant recipient, and training in the performance of kidney transplant biopsies.				
354		Additionally there must be an emphasis on the management of immunosuppressive agents				
355		and the evaluation of kidney transplant dysfunction. Combined surgical and medical rounds				
356		should be conducted on a regular basis.				
357		45. The program must provide patient co-management responsibility with transplant surgeons				
358		from the peri-operative through the outpatient period. The kidney trainee must primarily				
359		manage the transplant recipient's medical care including hypertension, diabetes, and dialytic				
360		problems. Trainees must also serve as a primary member of the transplant team and				
361		participate in making decisions about immunosuppression. The transplant renal fellow must				
362		be primarily responsible for 30 in-patient renal transplant recipients and 30 outpatient				
363		recipients over a period of 12 months. Outpatient follow-up must be continuous for a				
364		minimum of at least 3 months. Training must be completed within 12 continuous months; a				
365		minimum of 6 months of training must be performed in inpatient clinical service.				
366		5. The transplant nephrology fellow must perform a minimum of 10 transplant biopsies during				
367		the training period.				
368		6. The transplant nephrology fellow must observe at least 3 kidney transplants and at least 3				
369		procurement procedures.				
370						
371	E.5	Kidney Transplant Programs that Register Candidates Less than 18 Years				
372	2.0	Old				
373		C. Conditional Approval for a Pediatric Component				
374		A designated kidney transplant program can obtain conditional approval for a pediatric				
374 375		component if <i>either</i> of the following conditions is met:				
376						
377		1. The program has a qualified primary pediatric kidney physician who meets all of the				

378		requirements described in Section E.5.B: Primary Pediatric Kidney Transplant Physician
379		<i>Requirements</i> and a surgeon who meets <i>all</i> of the following requirements:
380		
381		a. The surgeon meets all of the requirements described in Section E.2: Primary Kidney
382		Transplant Surgeon Requirements, including completion of at least one of the following
383		training or experience pathways:
384		The formal 2-year transplant fellowship pathway as described in Section E.2.A:
385		Formal 2-year Transplant Fellowship Pathway
386		The Maney adhepiant program emiliar experience partway, as accorded in econom
387		E.2.B: Clinical Experience Pathway
388		b. The ourgoon has performed at least 5 kidney transplants, as the primery ourgoon or first
389 390		b. The surgeon has performed at least 5 kidney transplants, as the primary surgeon or first
391		assistant, in recipients less than 18 years old at the time of transplant. At least 1 of these
392		kidney transplants must have been in recipients less than 6 years old or weighing less than 25 kilograms at the time of transplant. These transplants must have been performed
393		during or after fellowship, or across both periods. These transplants must be documented
394		in a log that includes the date of transplant, the recipient's date of birth, the recipient's
395		weight at transplant if less than 25 kilograms, the role of the surgeon in the procedure,
396		and the medical record number or other unique identifier that can be verified by the
397		OPTN Contractor.
398		c. The surgeon has maintained a current working knowledge of pediatric kidney
399		transplantation, defined as direct involvement in pediatric kidney transplant patient care in
400		the last 2 years. This includes the management of pediatric patients with end stage renal
401		disease, the selection of appropriate pediatric recipients for transplantation, donor
402		selection, histocompatibility and HLA typing, performing the pediatric transplant
403		operation, immediate postoperative and continuing inpatient care, the use of
404		immunosuppressive therapy including side effects of the drugs and complications of
405		immunosuppression, differential diagnosis of renal dysfunction in the allograft recipient,
406		histological interpretation of allograft biopsies, interpretation of ancillary tests for renal
407		dysfunction, and long term outpatient care.
408		
409	2.	The program has a qualified primary pediatric kidney surgeon who meets all of the
410		requirements described in Section E.5.A: Primary Pediatric Kidney Transplant Surgeon
411		Requirements and a physician who meets all of the following requirements:
412		
413		a. The physician has current board certification in pediatric nephrology by the American
414		Board of Pediatrics or the foreign equivalent, or is approved by the American Board of
415		Pediatrics to take the certifying exam.
416		b. The physician gained a minimum of 2 years of experience during or after fellowship, or
417		accumulated during both periods, at a kidney transplant program.
418		c. During the 2 or more years of accumulated experience, the physician was directly
419		involved in the primary care of 5 or more newly transplanted kidney recipients and
420		followed 15 newly transplanted kidney recipients for at least 6 months from the time of
421		transplant, under the direct supervision of a qualified kidney transplant physician, along
422		with a qualified kidney transplant surgeon. This care must be documented in a recipient
423		log that includes the date of transplant and the recipient medical record number or other
424		unique identifier that can be verified by the OPTN Contractor. This log must be signed by
425		the training program director or the primary physician of the transplant program.
426		d. The physician has maintained a current working knowledge of pediatric kidney
427		transplantation, defined as direct involvement in kidney transplant patient care during the
428		past 2 years. This includes the management of pediatric patients with end-stage renal
429		disease, the selection of appropriate pediatric recipients for transplantation, donor
430		selection, histocompatibility and HLA typing, immediate post-operative care including
431		those issues of management unique to the pediatric recipient, fluid and electrolyte
432		management, the use of immunosuppressive therapy in the pediatric recipients including

433 434 435 436 437 438 439 440 441 442 443 444 445 445 445 445 451 452 453 454 455 455 456 457 458 459 460		trar dia peo tes incl ant apr Rei kidi pro the incl f. The i.	e-effects of drugs and complications of immunosuppression, the effects of insplantation and immunosuppressive agents on growth and development, differential gnosis of renal dysfunction in the allograft recipient, manifestation of rejection in the diatric patient, histological interpretation of allograft biopsies, interpretation of ancillary ts for renal dysfunction, and long-term outpatient care of pediatric allograft recipients luding management of hypertension, nutritional support, and drug dosage, including dibiotics, in the pediatric patient. The curriculum for obtaining this knowledge must be proved by the Recidency Review Committee (RRC) – Ped of the ACGME or a sidency Review Committee. (RRC) – Ped of the ACGME or a sidency Review Committee.
461 462 463			gnated kidney transplant program's conditional approval for a pediatric component is or a maximum of 24 months.
464			
465	E.6 ł	Kidney T	ransplant Programs that Perform Living Donor Recovery
466	[) .	Primary Open Living Donor Kidney Surgeon
467 468 469		•	onor surgeon who performs open living donor nephrectomies must be on site and must of the following criteria:
470 471 472 473 474 475	•	year su approve and Su OPTN Program	
476 477 478 479 480 481	•	the rem of these surgeor	etion of at least 10 open nephrectomies, including deceased donor nephrectomies or noval of diseased kidneys, as primary surgeon, co-surgeon, or first assistant. At least 5 e open nephrectomies must have been performed as the primary surgeon or co- n. The open nephrectomies must be documented in a log that includes the date of ry, the role of the surgeon in the procedure, the type of procedure (open or

483 **F.3 Primary Liver Transplant Surgeon Requirements**

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A. Formal 2-year Transplant Fellowship Pathway

Surgeons can meet the training requirements for primary liver transplant surgeon by completing a <u>formal 2-year surgical transplant fellowship</u> if the following conditions are met:

- The surgeon performed at least 45 liver transplants as primary surgeon or first assistant
 during the 2-year fellowship period. These transplants must be documented in the surgeon's
 fellowship operative log. The date of transplant, the role of the surgeon in the procedure, the
 medical record number or other unique identifier that can be verified by the OPTN Contractor,
 and the fellowship director's signature must be provided with this log.
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 2. The surgeon performed at least 20 liver procurements as primary surgeon or first assistant. These procurements must have been performed anytime during the surgeon's fellowship and the two years immediately following fellowship completion. These procedures must be documented in the surgeon's fellowship operative log. The date of procurement and Donor ID must be provided with this log.
- 498 3. The surgeon has maintained a current working knowledge of liver transplantation, defined as 499 direct involvement in liver transplant patient care within the last 2 years. This includes the 500 management of patients with end stage liver disease, the selection of appropriate recipients 501 for transplantation, donor selection, histocompatibility and tissue typing, performing the 502 transplant operation, immediate postoperative and continuing inpatient care, the use of 503 immunosuppressive therapy including side effects of the drugs and complications of 504 immunosuppression, differential diagnosis of liver allograft dysfunction, histologic 505 interpretation of allograft biopsies, interpretation of ancillary tests for liver dysfunction, and 506 long term outpatient care.
- 5074. The training was completed at a hospital with a liver transplant training program approved by508the Fellowship Training Committee of the American Society of Transplant Surgeons, the509Royal College of Physicians and Surgeons of Canada, or another recognized fellowship510training program accepted by the OPTN Contractor as described in Section F.6: Approved511Liver Surgeon Transplant Fellowship Programs that follows.
 - 5. The following letters are submitted directly to the OPTN Contractor:
 - a. A letter from the director of the training program verifying that the surgeon has met the above requirements, and is qualified to direct a liver transplant program.
 - A letter of recommendation from the fellowship training program's primary surgeon and transplant program director outlining the surgeon's overall qualifications to act as primary transplant surgeon, as well as the surgeon's personal integrity, honesty, familiarity with and experience in adhering to OPTN obligations, and other matters judged appropriate. The MPSC may request additional recommendation letters from the primary physician, primary surgeon, director, or others affiliated with any transplant program previously served by the surgeon, at its discretion.
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- c. A letter from the surgeon that details his or her training and experience in liver transplantation.
- 524

F.6 Approved Liver Surgeon Transplant Fellowship Programs

Surgeons qualifying as primary transplant surgeon based on completion of a <u>formal 2-year formal surgical</u>
 transplant fellowship must complete their training at a fellowship program approved by the <u>American</u>
 Society of Transplant Surgeons, the Royal College of Physicians and Surgeons of Canada, or another
 recognized fellowship training program accepted by the OPTN Contractor <u>MPSC. Any program approved</u>

530 531		ining by the Fellowship Training Committee of the American Society of Transplant Surgeons is natically accepted by the MPSC, as well as any program that meets the following criteria:
532 533	1. T	he program is at a transplant hospital that transplants one or more organs, including livers.
534		he program is at an institution that has <u>ACGME approved training in general surgery</u> a proven
535		ommitment to graduate medical education.
536		he program director is a board-certified surgeon who meets the OPTN Contractor requirements for
537		rimary liver transplant surgeon.
538	•	he program is at a hospital that is affiliated with a histocompatibility laboratory that meets the OPTN
539		ontractor requirements for histocompatibility laboratories.
540		he program is at a hospital that is affiliated with an organ procurement organization (OPO) that
541		eets the OPTN Contractor requirements for OPOs.
542		he program performs at least 50 liver transplants <u>during</u> each year <u>of the fellowship training</u> from
543	_	eceased or living donors.
544		he program has the resources, including adequate clinical facilities, laboratory research facilities,
545		nd appropriately trained faculty and staff, to provide research experience.
546		······································
547	Traini	ng programs are reviewed by the MPSC every 5 years or any time the program director changes. If
548		gram has no fellows during the 5 years between reviews, it must re-apply as a new program.
549		
550	F.11	Primary Intestine Transplant Surgeon Requirements
551		A. Full Intestine Surgeon Approval Pathway
552		Surgeons can be fully approved as a primary intestine transplant surgeon by completing a formal
553		surgical transplant fellowship or by completing clinical experience at an intestine transplant
554 555		program if all of the following conditions are met:
556		1. The surgeon performed 7 or more intestine transplants at a designated intestine transplant
557		program, to include the isolated bowel and composite grafts, as primary surgeon or first
558		assistant within the last 10 years. These transplants must be documented in a log that
559		includes the date of transplant, the role of the surgeon in the procedure, and the medical
560		record number or other unique identifier that can be verified by the OPTN Contractor. This log
561		must be signed by the program director, division chief, or department chair from the program
562		where the experience or training was gained.
563		2. The surgeon performed 3 or more intestine procurements as primary surgeon or first
564		assistant. These procurements must include 1 or more organ recovery that includes a liver.
565		These procedures must be documented in a log that includes the date of procurement and
566		Donor ID. This log must be signed by the program director, division chief, or department chair
567		from the program where the experience or training was gained.
568		3. The surgeon has maintained a current working knowledge of intestine transplantation,
569		defined as direct involvement in intestine transplant patient care within the last 5 years. This
570		includes the management of patients with short bowel syndrome or intestinal failure, the
571		selection of appropriate recipients for transplantation, donor selection, histocompatibility and
572		tissue typing, performing the transplant operation, immediate postoperative and continuing
573		inpatient care, the use of immunosuppressive therapy including side effects of the drugs and
574		complications of immunosuppression, differential diagnosis of intestine allograft dysfunction,
575		histologic interpretation of allograft biopsies, interpretation of ancillary tests for intestine
576		dysfunction, and long term outpatient care.

577	4.	The training was completed at a hospital with an intestinal transplant training program
578		approved by the American Society of Transplant Surgeons <u>, (ASTS) or the Royal College of</u>
579		Physicians and Surgeons of Canada, or another recognized fellowship training program
580		accepted by the OPTN Contractor as described in Section F.14: Approved Intestine
581		Transplant Surgeon Fellowship Training Programs that follows.
582	5.	The following letters are submitted to the OPTN Contractor:
583		a. A letter from the qualified intestine transplant physician and surgeon who have been
584		directly involved with the surgeon documenting the surgeon's experience and
585		competence.
586		b. A letter of recommendation from the primary surgeon and transplant program director at
587		the fellowship training program or transplant program last served by the surgeon outlining
588		the surgeon's overall qualifications to act as a primary transplant surgeon, as well as the
589		surgeon's personal integrity, honesty, and familiarity with and experience in adhering to
590		OPTN obligations, and any other matters judged appropriate. The MPSC may request
591		additional recommendation letters from the primary surgeon, primary physician surgeon,
592		director, or others affiliated with any transplant program previously served by the
593		physician, at its discretion.
594		c. A letter from the surgeon that details the training and experience the surgeon gained in
595		intestine transplantation.
596		
597	F.14 A	oproved Intestine Surgeon Transplant Fellowship Programs
007		oprovod medinio odrigodni manoplani i diomonip i regranio
598		qualifying as primary transplant surgeon through based on completion of a formal transplant
599		must complete their training at a fellowship program approved by the American Society of
600		Surgeons, the Royal College of Physicians and Surgeons of Canada, or another recognized
601		training program accepted by the OPTN Contractor MPSC. Any program approved by the
602 603		Training Committee of the American Society of Transplant Surgeons is automatically accepted SC, as well as any program that meets <i>all</i> of the following criteria:
604	by the Mi	be, as well as any program that meets an of the following chiefla.
605	1. The p	ogram is at a <u>transplant</u> hospital that transplants one two or more organs, including <u>liver and</u>
606	intesti	
607	2. The p	ogram is at an institution that has <u>ACGME approved training in general surgery</u> a proven
608		tment to graduate medical education.
609	3. The p	ogram director is a board-certified surgeon who meets the OPTN Contractor requirements for
610	•	y intestine transplant surgeon.
611	4. The p	ogram is at a hospital that is affiliated with a histocompatibility laboratory that meets the OPTN
612	Contra	ctor requirements for histocompatibility laboratories.
613	5. The p	ogram is at a hospital that is affiliated with an organ procurement organization (OPO) that
614	meets	the OPTN Contractor requirements for OPOs.
615	6 <u>3</u> . The p	ogram performs at least 10 intestine transplants during each year of the fellowship training.
616	7. The p	ogram has the resources, including adequate clinical facilities, laboratory research facilities,
617		propriately trained faculty and staff, to provide research experience.
618		
619	G.2 P	imary Pancreas Transplant Surgeon Requirements
620	A	Formal 2-year Transplant Fellowship Pathway
621	0	irgeons can meet the training requirements for primary paneroos transplant surgeon by
622		Irgeons can meet the training requirements for primary pancreas transplant surgeon by mpleting a <u>formal 2-year surgical transplant fellowship</u> if the following conditions are met:
623	00	

624 625 626 627 628		1.	The surgeon performed at least 15 pancreas transplants as primary surgeon or first assistant. These transplants must be documented in the surgeon's fellowship operative log. The date of transplant, the role of the surgeon in the procedure, the medical record number or other unique identifier that can be verified by the OPTN Contractor, and the fellowship director's signature must be provided with this log.
629 630 631 632		2.	The surgeon performed at least 10 pancreas procurements as primary surgeon or first assistant. These procurements must have been performed anytime during the surgeon's fellowship and the two years immediately following fellowship completion. These cases must be documented in the surgeon's fellowship operative log. The date of procurement, Donor ID,
633 634 635 636		3.	and the fellowship director's signature must be provided with this log. The surgeon has maintained a current working knowledge of pancreas transplantation, defined as direct involvement in patient care within the last 2 years. This includes the management of patients with diabetes mellitus, the selection of appropriate recipients for
637 638 639			transplantation, donor selection, histocompatibility and tissue typing, performing the transplant operation, immediate postoperative and continuing inpatient care, the use of immunosuppressive therapy including side effects of the drugs and complications of
640 641 642		4	immunosuppression, differential diagnosis of pancreas dysfunction in the allograft recipient, histological interpretation of allograft biopsies, interpretation of ancillary tests for pancreatic dysfunction, and long term outpatient care.
643 644 645 646		4.	The training was completed at a hospital with a pancreas transplant training program approved by the Fellowship Training Committee of the American Society of Transplant Surgeons, the Royal College of Physicians and Surgeons of Canada, or <u>another recognized</u> fellowship training program accepted by the OPTN Contractor as described in <i>Section G.7:</i>
647 648 649		5.	Approved Pancreas Transplant Surgeon Fellowship Training Programs that follows. The following letters are submitted directly to the OPTN Contractor: a. A letter from the director of the training program and chairman of the department or
650 651 652			hospital credentialing committee verifying that the fellow has met the above requirements and is qualified to direct a pancreas transplant program.b. A letter of recommendation from the fellowship training program's primary surgeon and
653 654 655			transplant program director outlining the surgeon's overall qualifications to act as primary transplant surgeon as well as the surgeon's personal integrity, honesty, familiarity with and experience in adhering to OPTN obligations, and any other matters judged
656 657 658			appropriate. The MPSC may request similar letters of recommendation from the primary physician, primary surgeon, director, or others affiliated with any transplant program previously served by the surgeon, at its discretion.
659 660 661	C 2	D,-	 A letter from the surgeon that details the training and experience the surgeon has gained in pancreas transplantation.
662	G.3	A.	imary Pancreas Transplant Physician Requirements Twelve-month Transplant Medicine Fellowship Pathway
663 664			ysicians can meet the training requirements for a primary pancreas transplant physician during
665 666			eparate 12-month transplant medicine fellowship if the following conditions are met:
667 668 669		1.	The physician completed 12 consecutive months of specialized training in pancreas transplantation at a pancreas transplant program under the direct supervision of a qualified pancreas transplant physician along with a pancreas transplant surgeon. The training must
670 671			have included at least 6 months on the clinical transplant service. The remaining time must have consisted of transplant-related experience, such as experience in a tissue typing

672 673			laboratory, on another solid organ transplant service, or conducting basic or clinical transplant research.
674		2.	During the fellowship period, the physician was directly involved in the primary care of 8 or
675		۷.	more newly transplanted pancreas recipients and followed these recipients for a minimum of
676			3 months from the time of transplant. The care must be documented in a log that includes the
677			date of transplant and medical record number or other unique identifier that can be identified
678			by the OPTN Contractor. This recipient log must be signed by the director of the training
679			program or the transplant program's primary transplant physician.
680		3.	The physician has maintained a current working knowledge of pancreas transplantation,
681			defined as direct involvement in pancreas transplant patient care within the last 2 years. This
682			includes the management of patients with end stage pancreas disease, the selection of
683			appropriate recipients for transplantation, donor selection, histocompatibility and tissue
684			typing, immediate post-operative patient care, the use of immunosuppressive therapy
685			including side effects of the drugs and complications of immunosuppression, differential
686			diagnosis of pancreas dysfunction in the allograft recipient, histological interpretation of
687			allograft biopsies, interpretation of ancillary tests for pancreas dysfunction, and long term
688			outpatient care.
689		4.	The physician must have observed at least 3 pancreas procurements. The physician must
690			have also observed the evaluation, donation process, and management of these donors.
691			These observations must be documented in a log that includes the date of procurement and
692			Donor ID.
693		5.	The physician must have observed at least 3 pancreas transplants. The observation of these
694			transplants must be documented in a log that includes the transplant date and medical record
695			number or other unique identifier that can be verified by the OPTN Contractor.
696		6.	The curriculum of this transplant medicine fellowship should be approved by the Residency
697			Review Committee for Internal Medicine (RRC-IM) of the Accreditation Council for Graduate
698			Medical Education (ACGME).
699		<u>76</u> .	The following letters are submitted directly to the OPTN Contractor:
700			a. A letter from director of the training program and supervising qualified pancreas
701			transplant physician send a letter directly to the OPTN Contractor verifying that the fellow
702			has met the above requirements and is qualified to direct a pancreas transplant program.
703			b. A letter of recommendation from the fellowship training program's primary physician and
704			transplant program director outlining the physician's overall qualifications to act as
705			primary transplant physician as well as the physician's personal integrity, honesty,
706			familiarity with and experience in adhering to OPTN obligations, and any other matters
707			judged appropriate. The MPSC may request similar letters of recommendation from the
708			primary physician, primary surgeon, director, or others affiliated with any transplant
709			program that the physician previously served, at its discretion.
710			c. A letter from the physician that details the training and experience the physician has
711			gained in pancreas transplantation.
712			
713		The	e above training is in addition to other clinical requirements for general nephrology,
714		enc	docrinology, or diabetology training.
715			
716	G.7	Ар	oproved Pancreas Transplant Surgeon Fellowship Training Programs

717 Surgeons qualifying as primary transplant surgeons based on completion of a formal 2-year surgical

718 transplant fellowship must complete their training at a fellowship program approved by Fellowship training

719 programs accredited by the Fellowship Training Committee of the American Society of Transplant

721 722	Surgeons <u>, the Royal College of Physicians and Surgeons of Canada, or another recognized fellowship</u> <u>training program accepted by -are acceptable to t</u> he OPTN Contractor or all programs that meet <u>s</u> the following criteria:
723	Tonowing citteria.
724	1. The program must be is located at a transplant hospital that transplants one or more organs.
725	including pancreas.
726	2. The program must be reviewed every 5 years by the OPTN Contractor.
727	32. The program must be is at an institution that has ACGME approved training in general surgery with a
728	proven commitment to graduate medical education.
729	4. The program director must be a board certified surgeon who meets the requirements of a primary
730	transplant surgeon.
731	5. The program must be at an institution affiliated with a histocompatibility laboratory member.
732	6. The program must be at an institution affiliated with an organ procurement organization member.
733	7 <u>3</u> . The program must performs at least 20 pancreas transplants during each year of fellowship training
734	to qualify for pancreas transplantation training.
735	8. The training program must have adequate clinical and laboratory research facilities.
736	9. The training program should have adequate faculty with appropriate training to provide proper
737	research experience.
738	
739	Training programs are reviewed by the MPSC every 5 years or any time the program director changes. If
740	a program has no fellows during the 5 years between reviews, it must re-apply as a new training program.
741	
742	J.3 Primary VCA Transplant Surgeon Requirements
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743	A. Additional Primary Surgeon Requirements for Upper Limb
743 744	A. Additional Primary Surgeon Requirements for Upper Limb Transplant Programs
744	Transplant Programs
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744	Transplant Programs In addition to the requirements as described in section J.3 above, the surgeon for an upper limb transplant program must meet <i>both</i> of the following:
744 745 746 747	Transplant ProgramsIn addition to the requirements as described in section J.3 above, the surgeon for an upper limb transplant program must meet <i>both</i> of the following:1. Must meet at least <i>one</i> of the following:
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744 745 746 747 748 749 750 751 752 753 754 755 756 757 758	 In addition to the requirements as described in section J.3 above, the surgeon for an upper limb transplant program must meet <i>both</i> of the following: Must meet at least <i>one</i> of the following: a. Have current certification by the American Board of Plastic Surgery, the American Board of Orthopedic Surgery, the American Board of Surgery, or the foreign equivalent. In the case of a surgeon who has just completed training and whose board certification is pending, the Membership and Professional Standards Committee (MPSC) may grant conditional approval for 24 months to allow time for the surgeon to complete board certification, with the possibility of renewal for an additional 12-month period. If the surgeon does not have board certification, the surgeon may qualify by gaining all of the following relevant clinical experience: Observation of at least 2 multi-organ procurements and acted as the first-assistant or primary surgeon on at least 1 VCA procurement.
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744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764	 Transplant Programs In addition to the requirements as described in section J.3 above, the surgeon for an upper limb transplant program must meet <i>both</i> of the following: Must meet at least <i>one</i> of the following: Have current certification by the American Board of Plastic Surgery, the American Board of Orthopedic Surgery, the American Board of Surgery, or the foreign equivalent. In the case of a surgeon who has just completed training and whose board certification is pending, the Membership and Professional Standards Committee (MPSC) may grant conditional approval for 24 months to allow time for the surgeon to complete board certification, with the possibility of renewal for an additional 12-month period. If the surgeon does not have board certification, the surgeon may qualify by gaining all of the following relevant clinical experience: Observation of at least 2 multi-organ procurements and acted as the first-assistant or primary surgeon on at least 1 VCA procurement. Acted as primary surgeon of a least 1 upper limb transplant candidates. Acted as primary surgeon of a least 1 upper limb transplant. Post-operative follow-up of at least 1 upper limb transplant.
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767 768 769		be signed by the program director, division chief, or department chair where the experience was gained.
770		If a primary surgeon qualified under 1.b leaves the transplant program, the replacement for
771		this surgeon must meet the requirements of 1.a. As of September 1, 2018, pathway 1.b will
772		no longer be available and all primary surgeons must meet the requirements of 1.a.
773		no longer be available and all primary surgeons must meet the requirements of r.a.
774	S	Completion of at least one of the following:
775	Ζ.	
776		 A tellowship program in hand surgery that is approved by the MPSC. Any Accreditation Council of Graduate Medical Education (ACGME) approved fellowship program in hand
777		surgery is automatically accepted by the MPSC.
778		b. A fellowship program in hand surgery that meets all of the following criteria will also be
779		accepted:
780		i. The program is at a hospital that has inpatient facilities, operative suites and
781		diagnostic treatment facilities, outpatient facilities, and educational resources.
782		ii. The program is at an institution that has a proven commitment to graduate medical
783		education.
784		iii. The program director must have current certification in the sub-specialty by the
785		American Board of Orthopedic Surgery, the American Board of Plastic Surgery, or
786		American Board of Surgery.
787		iv. The program should have at least 2 physician faculty members with hand surgery
788		experience and current medical licensure who are actively involved in the instruction
789		and supervision of fellows during the time of accredited education.
790		v. The program is at a hospital that has affiliated rehabilitation medicine services.
791		vi. The program has the resources, including adequate clinical facilities, laboratory
792		research facilities, and appropriately trained faculty and staff, to provide research
793		experience.
794		c. At least 2 years of consecutive and independent practice of hand surgery and must have
795		completed a minimum number of upper limb procedures as the primary surgeon shown in
796		Table J-1 below. This includes completion of pre-operative assessments and post-
797		operative care for a minimum of 90 days after surgery. These procedures must be
798		documented in a log that includes the date of the procedure and the medical record
799		number or other unique identifier that can be verified by the OPTN Contractor. This log
800		must be signed by the program director, division chief, or department chair where the
801		experience was gained. Surgery of the hand includes only those procedures performed
802		on the upper limb below the elbow.
803		
804		Table J-1: Minimum Procedures for Upper Limb Primary Transplant Surgeons

Type of Procedure	Minimum Number of Procedures
Bone	20
Nerve	20
Tendon	20
Skin or Wound Problems	14
Contracture or Joint Stiffness	10
Tumor	10
Microsurgical Procedures Free flaps	10
Non-surgical management	6
Replantation or Transplant	5

806B.Additional Primary Surgeon Requirements for Head and Neck807Transplant Programs

In addition to the requirements as described in section J.3 above, the transplant surgeon for a head and neck transplant program must meet *both* of the following:

- 811 1. Must meet at least *one* of the following:
 - a. Have current certification by the American Board of Plastic Surgery, the American Board of Otolaryngology, American Board of Oral and Maxillofacial Surgery, the American Board of Surgery, or the foreign equivalent. In the case of a surgeon who has just completed training and whose board certification is pending, the Membership and Professional Standards Committee (MPSC) may grant conditional approval for 24 months to allow time for the surgeon to complete board certification, with the possibility of renewal for an additional 12-month period.
 - b. If the surgeon does not have board certification, the surgeon may qualify by gaining all of the following relevant clinical experience:
 - i. Observation of at least 2 multi-organ procurements and acted as the first-assistant or
 - primary surgeon on at least 1 VCA procurement. ii. Pre-operative evaluation of at least 3 potential head and neck transplant candidates.
 - iii. Acted as primary surgeon of a least 1 head and neck transplant.
 - iv. Post-operative follow up of at least 1 head and neck recipient for 1 year posttransplant.

The multi-organ procurement experience must be documented in a log that includes the Donor ID or other unique identifier that can be verified by the OPTN Contractor. The experience for head and neck procedures must be documented in a log that includes the dates of procedures and evaluations, the role of the surgeon, and the medical record number or other unique identifier that can be verified by the OPTN Contractor. This log must be signed by the program director, division chief, or department chair where the experience was gained.

If a primary surgeon qualified under 1.b leaves the transplant program, the replacement for this surgeon must meet the requirements of 1.a. As of September 1, 2018, pathway 1.b will no longer be available and all primary surgeons must meet the requirements of 1.a.

2. Completion of at least one of the following:

843	a. A fellowship program in otolaryngology, plastic, oral and maxillofacial, or craniofacial
844	surgery that is approved by the MPSC. Any ACGME–approved fellowship program in
845	otolaryngology, plastic, oral and maxillofacial, or craniofacial surgery-is automatically
846	accepted by the MPSC.
847	b. A fellowship program in otolaryngology, plastic, oral and maxillofacial, or craniofacial
848	surgery that meets all of the following criteria:
849	i. The program is at a hospital that has inpatient facilities, operative suites and
850	diagnostic treatment facilities, outpatient facilities, and educational resources.
851	ii. The program is at an institution that has a proven commitment to graduate medical
852	education.
853	iii. The program director must have current certification in the sub-specialty by the
854	American Board of Plastic Surgery, the American Board of Otolaryngology, American
855	Board of Oral and Maxillofacial Surgery.
856	iv. The program should have at least two physician faculty members with head and neck
857	surgery experience and current medical licensure who are actively involved in the
858	instruction and supervision of fellows during the time of accredited education.
859	v. The program is at a hospital that has affiliated rehabilitation medicine services.

860	vi. The program has the resources, including adequate clinical facilities, laboratory
861	research facilities, and appropriately trained faculty and staff, to provide research
862	experience.
863	c. At least 2 years of consecutive and independent practice of head and neck surgery. The
864	surgeon must have completed at least 1 face transplant as primary surgeon or first-
865	assistant, or a minimum number of head and neck procedures as the primary surgeon as
866	shown in Table J-2 below. This includes completion of pre-operative assessments and
867	post-operative care for a minimum of 90 days after surgery. These procedures must be
868	documented in a log that includes the dates of procedures and evaluations, the role of
869	the surgeon and the medical record number, Donor ID, or other unique identifier that can
870	be verified by the OPTN Contractor. This log must be signed by the program director,
871	division chief, or department chair where the experience was gained.
872	
873	Table J-2: Minimum Procedures for Head and Neck Primary Transplant Surgeons

Table J-2: Minimum	Procedures for	Head and	Neck Primarv	Transp	lant Surd	aeons
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Type of Procedure	Minimum Number of Procedures
Facial trauma with bone fixation	10
Head or neck free tissue reconstruction	10