

Updating Primary Kidney Transplant Physician Requirements

OPTN/UNOS Membership and Professional Standards Committee

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Updating Primary Kidney Transplant Physician Requirements

Affected Policies: Include specific Policy/Bylaw sections with title
Sponsoring Committee: Membership and Professional Standards
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Executive Summary

Fellowship training requirements have historically served as the foundation for key personnel requirements in OPTN/UNOS Bylaws. Primary kidney transplant physician requirements in the Bylaws have not evolved with nephrology fellowship training. For example, the Bylaws currently do not accommodate transplant nephrology fellowships longer than 12 months which have been developed for fellows wishing to pursue transplantation research during their training period, nor do they include requirements pertaining to the evaluation of living donors or potential kidney recipients which are now standard fellowship requirements. The goal of this proposal is to update the Bylaws to better align with transplant nephrology fellowship requirements.

What problem will this proposal solve?

Fellowship training requirements have generally served as the foundation for key personnel requirements in OPTN/UNOS Bylaws; however, primary transplant kidney physician pathways do not reflect some options and standards currently associated with transplant nephrology fellowships. These proposed changes have the potential to impact the OPTN Strategic Plan key goals of promoting the efficient management of the OPTN, promoting living donor and transplant recipient safety, and improving waitlisted patient, living donor, and transplant recipient outcomes.

Why should you support this proposal?

The changes presented in this proposal stem directly from recommendations developed by a Joint Societies Working Group (JSWG), and are representative of a collaborative effort between the American Society of Transplantation (AST), the American Society of Transplant Surgeons (ASTS), the North American Transplant Coordinators Organization (NATCO), and the MPSC. These proposed changes incorporate requirements into the primary kidney transplant physician pathways that are currently standard for transplant nephrology fellowships and modify other language to accommodate transplant nephrology fellowships longer than 12 months which have been developed for fellows wishing to pursue transplantation research during their training period. By doing so, these proposed changes will address questions confronted by the MPSC about nephrology transplant fellowship longer than 12 months, which will contribute to the OPTN strategic plan key goal of promoting efficient management of the OPTN. Including additional requirements that are now standards of transplant nephrology fellowship training to qualify as the primary kidney transplant physician are intended to increase living donor and transplant recipient safety and improve outcomes.

How was this proposal developed?

In 2013, the MPSC created a working group to address a number of aspects in the Bylaws key personnel requirements that had repeatedly been noted as ambiguous, unenforceable, or regularly yielding questions from members of the MPSC. As the MPSC Working Group began making progress on possible solutions to clarify these Bylaws, the Joint Societies Policy Steering Committee met in May 2014 and opted for the formation of a Joint Societies Working Group (JSWG) to address the key personnel Bylaws projects being worked on by the MPSC. One of the key personnel topics pertains to questions about approved transplant fellowship programs, and the MPSC's evaluation of these programs. Preliminary discussion of this topic prompted AST representatives to note a number of deficiencies in OPTN Bylaws Appendix E.3 (Primary Kidney Transplant Physician Requirements) relative to current transplant nephrology fellowship requirements. Examples include the Bylaws specificity of a "twelve-month transplant nephrology fellowship" that does not accommodate transplant nephrology fellowships longer than 12-months that had been developed for fellows wishing to pursue transplantation research during their training period, and the lack of requirements pertaining to the evaluation of potential kidney recipients and living donors which are now standard requirements for transplant nephrology fellowships. AST representatives also pointed out that references to fellowship programs approved by AST are outdated. In 2014, The AST recently formed a new limited liability company to accredit institutions that provide specialty transplant nephrology training- Transplant Nephrology Fellowship Training Accreditation Program, LLC.¹

The JSWG agreed that these Bylaws should be updated and that it would develop recommendations on this topic during its review of the key personnel requirement topics that it had been charged to address. To develop these recommendation, the JSWG compared the requirements currently included in Appendix E.3 against the eligibility criteria that must be continuously satisfied by a transplant nephrology fellowship

¹ "Announcing Transfer of AST Renal Transplant Fellowship Accreditation Program," accessed June 23, 2016, <https://www.myast.org/news/announcing-transfer-ast-renal-transplant-fellowship-accreditation-program>

training program that is accredited by the Transplant Nephrology Fellowship Training Accreditation Program, LLC. The JSWG commented on the following:

- *Transplant Nephrology Fellowship “Alternative Pathway”*- The Transplant Nephrology Fellowship Training Accreditation Program provides two pathways for transplant nephrology fellowship programs to follow: a standard, one-year transplant nephrology fellowship, and an “alternative pathway.” The “alternative pathway” was designed for nephrology fellows who have a more in depth academic interest in transplantation and wish to pursue active research related to transplantation over the span of a two or three year training period. The primary kidney transplant physician fellowship pathway in the OPTN Bylaws only references the standard nephrology fellowship, “Physicians can meet the training requirements for a primary kidney transplant physician during a separate 12-month transplant nephrology fellowship,” and is silent on fellowships that last longer than 12 months (i.e., the Program’s “alternative pathway”).

The JSWG believes that individuals who complete the transplant nephrology fellowship through the “alternative pathway,” and who meet all other requirements, should be eligible to qualify as a kidney program’s primary transplant physician through the fellowship pathway in the OPTN Bylaws. The group considered creating another fellowship pathway in the Bylaws that was directly related to the alternative pathway for transplant nephrology fellowships. Ultimately, the JSWG decided that this was unnecessary. Instead, the JSWG thought the current primary kidney transplant physician fellowship pathway should be modified to accommodate individuals who have completed their transplant nephrology fellowship through the “alternative pathway.” Besides being more general about the time to complete one’s fellowship, the volume requirements pertaining to caring for kidney recipients needs to reflect the higher number of cases expected of physicians going through the “alternative pathway” (i.e., care of at least 30 transplant patients for an additional period of three consecutive months).

- *Transplant Patient Case Volumes*- Bylaws currently require that the physician, “was directly involved in the primary care of 30 or more newly transplanted kidney recipients and continued to follow these recipients for a minimum of 3 months from the time of transplant.” In addition to the primary care of 30 or more newly transplanted kidney recipients, the Transplant Nephrology Fellowship Training Accreditation Program’s list of eligibility criteria also requires, “experience evaluating 25 potential kidney transplant recipients, and 10 potential living donors.” The Bylaws do not currently include similar requirements.

The JSWG thought that the experience reflected by both of these requirements is valuable, important, and reasonable to expect of a kidney program’s primary transplant physician. To make this a consistent standard across all kidney transplant programs, the JSWG recommended adding similar requirements to the Bylaws.

- *Renal Transplant Biopsies*- Transplant nephrology fellows are required to, “perform a minimum of 10 renal transplant biopsies during the training period;” however, OPTN Bylaws do not include a similar requirement. JSWG members pointed out that the necessity of this requirement in a transplant nephrology fellowship is questioned by some members of the community, but that it remains a fellowship requirement. Other member suggested that transplant nephrologists do not exclusively perform renal biopsies across the community, noting this is done by surgeons at some programs and by transplant staff teams at other programs. The JSWG felt this was an important consideration because an additional biopsy requirement may limit the ability of some programs to propose a primary transplant kidney physician who meets all requirements in the OPTN Bylaws. Considering this, and other questions in the community about requiring transplant nephrology fellows to perform renal biopsies, the JSWG did not think it would be appropriate to add a similar requirement to the OPTN Bylaws.

To summarize its final recommendations, the JSWG recommended modifying Bylaws Appendix E.3 to require that primary transplant kidney physicians must have: evaluated 25 potential kidney recipients and

10 living kidney donors, and to accommodate physicians that opt to complete their transplant nephrology fellowship through the Transplant Nephrology Fellowship Training Accreditation Program's "alternative pathway."

Upon the MPSC's endorsement of these recommendations, it worked to draft Bylaws modifications to incorporate these recommendations. In doing so, questions were raised about the applicability of these recommendations to Appendices E.3.C (Three-year Pediatric Nephrology Fellowship Pathway), E.3.D (Twelve-month Pediatric Transplant Nephrology Fellowship Pathway), and E.3.E (Combined Pediatric Nephrology Training and Experience Pathway).

The MPSC conferred with a number of pediatric transplant nephrologists (including past and present MPSC and OPTN/UNOS Pediatric Transplantation Committee members), who agreed that these changes should also be made to those primary kidney transplant physician pathways that focus on pediatric transplant nephrologists. Focusing on E.3.D, the MPSC discussed if this pathway was still necessary due to the increasing rarity of these types of fellowships. The MPSC considered individuals who may have previously qualified through this pathway and would continue to rely on it to qualify as a primary kidney transplant physician. This consideration and the potential unintended consequences of deleting this pathway relative to the small value that may be gained by doing this, led the MPSC to decide that this pathway should remain in the Bylaws. With that decision, it was suggested that E.3.D should allow experience gained during one's three-year pediatric nephrology fellowship and the 12-month pediatric transplant nephrology fellowship (which would immediately follow one's three-year pediatric nephrology fellowship) to count towards the additional requirements proposed to be added. The group of pediatric transplant nephrologists consulted and the MPSC both agreed that this was necessary because it would likely be challenging for an individual to meet these proposed requirements during a 12-month pediatric transplant nephrology fellowship due to the relatively low number of pediatric transplants that occur.

The relatively low number of pediatric transplants also prompted other proposed modifications within Appendices E.3.C, E.3.D, and E.3.E. A number of concerns have been raised about the second usage of the word "newly" in the experience requirements captured by the language provided below:

"During the 3-year training period the physician was directly involved in the primary care of 10 or more newly transplanted kidney recipients and followed 30 *newly* transplanted kidney recipients for at least 6 months from the time of transplant under the direct supervision of a qualified kidney transplant physician and in conjunction with a qualified kidney transplant surgeon."

Considering the relatively low volume of pediatric transplants that are performed, there are concerns that it would be extremely challenging for most to have followed 30 "newly" transplanted kidney recipients during a three-year pediatric nephrology fellowship or a twelve-month pediatric transplant nephrology fellowship. To address these concerns, the MPSC proposes deleting the second "newly," thereby allowing the follow-up of any pediatric transplant recipient- regardless of how long ago they were transplanted – to count towards this requirement. In addition to the volume concerns, this is thought to be particularly appropriate for pediatric recipients as their follow-up care is often more challenging as younger recipients progress through adolescence into early adulthood.

The MPSC also considered the applicability of these new requirements to Appendix E.3.G (Conditional Approval for Primary Transplant Physician). Conditional pathways for primary transplant physicians include the same requirements as the other primary transplant physician pathways for each respective organ, except conditional pathways only require half of the case volume experience that is required in each respective primary transplant physician clinical experience pathway. The MPSC considered whether E.3.G should only require half of the proposed potential recipient and living donor evaluations, or if it should include the full requirement of 25 evaluations of potential kidney recipients and 10 evaluations of potential living donors as proposed for the other pathways. The MPSC did not believe that the evaluation of potential kidney recipients and living donors would frequently be a limiting factor for individuals to qualify as a primary kidney transplant physician, and proposed that E.3.G require the same number of potential kidney recipient and living donor evaluations as what is being added to the other primary kidney transplant physician pathways.

How well does this proposal address the problem statement?

These proposed Bylaws changes will align primary kidney transplant physician requirements with transplant nephrology fellowship requirements allowing the Bylaws to better reflect the current training and experience standards of transplant nephrology. With the exception of requiring a certain number of kidney biopsies and observing a living donor kidney transplant, the proposed changes incorporate all other relevant requirements that must be continually met by transplant programs accredited by the Transplant Nephrology Fellowship Training Accreditation Program that are not already in the Bylaws. The most significant element of these changes is modifying Appendix E.3.A so that it will accommodate transplant nephrology fellows who opt to complete their fellowship through the Transplant Nephrology Fellowship Training Accreditation Program's alternative pathway.

A potential weakness of this proposal is that the additional requirements regarding the evaluation of potential living donors and kidney recipients does increase the expectations to qualify as a primary kidney transplant physician. This higher standard may be problematic for some, and in the most drastic of situations, may cause the closure of some kidney programs who cannot find appropriate staff that fulfill these requirements. The MPSC believes that these new requirements should not be burdensome for appropriately qualified individuals and any reduced access due to kidney program closure would be highly unlikely. Ultimately, the MPSC believes such a risk is worthwhile relative to the value of these additional requirements.

Which populations are impacted by this proposal?

As primary kidney transplant physicians are required at every kidney transplant program, this proposal has the potential to improve the quality of care for all kidney transplant patients; however, the effect realized by any individual patient or patient population is likely to be negligible as these changes are primarily operational in nature.

How does this proposal impact the OPTN Strategic Plan?

Increase the number of transplants: There is no impact to this goal.

Improve equity in access to transplants: Adding primary kidney transplant physician requirements to the Bylaws has the potential to impact equity in access to transplants. Additional requirements may not be attainable for certain programs, which could eventually result in the approval of fewer transplant programs. Conversely, proposed Bylaws to accommodate kidney physicians who completed their transplant nephrology fellowship through the Transplant Nephrology Fellowship Training Accreditation Program's alternative pathway expand who can qualify as a primary kidney transplant physician, which theoretically could increase kidney transplant access. Independently, each of these changes are likely to have a negligible impact on transplant access, and this is especially the case if considering the combined impact of these changes.

Improve waitlisted patient, living donor, and transplant recipient outcomes: The primary purpose of key personnel Bylaws is to establish a standard that each transplant program is led by individuals who have sufficient training and experience in organ transplantation. Raising the standard to qualify as a primary kidney transplant physician could potentially improve waitlisted patient, living donor, and transplant recipient outcomes.

Promote living donor and transplant recipient safety: The primary purpose of key personnel Bylaws is to establish a standard that each transplant program is led by individuals who have sufficient training and experience in organ transplantation. Raising the standard to qualify as a primary kidney transplant physician could potentially improve living donor and transplant recipient safety.

Promote the efficient management of the OPTN: These changes will have some impact towards promoting the efficient management of the OPTN. These efficiencies will primarily be gained as member

questions and MPSC discussions about whether someone who completed a transplant nephrology fellowship in more than 12 months can qualify as a primary kidney transplant physician through Appendix E.3.A. This will be accomplished by modifying the Bylaws to accommodate fellowship completion through the Transplant Nephrology Fellowship Training Accreditation Program's alternative pathway.

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 2016 meeting. Assuming the Board adopts these changes, members will be alerted through a policy notice. Necessary updates to the membership application prompted by these changes would require approval by the Office of Management and Budget (OMB) prior to the implementation of these Bylaws. After application changes have been approved by OMB, the OPTN will notify the membership of the implementation date for these Bylaws. All applications received on or after this implementation date, would be evaluated by the MPSC considering these new Bylaws.

How will members implement this proposal?

No immediate action will be required of members upon the implementation of these proposed changes. Membership and key personnel change applications for kidney programs submitted on or after the implementation of these proposed changes will be evaluated relative to these requirements.

Transplant Hospitals

Upon the adoption and implementation of these changes, primary kidney transplant physician applicants will be required to meet all the requirements of whichever OPTN Bylaws pathway they are applying through.

Will this proposal require members to submit additional data?

This proposal does not require additional data collection.

How will members be evaluated for compliance with this proposal?

All membership and key personnel applications proposing a primary kidney transplant physician that are received on or after these proposed Bylaws are implemented will be evaluated against these requirements. Primary kidney transplant physicians who opted to complete their fellowship in more than 12 months, and who are applying through the Appendix E.3.A will also need to document that the applicant was directly involved in outpatient follow-up of at least 30 kidney recipients for an additional period of 3 consecutive months. This will be in addition to the primary care of 30 or more newly transplanted kidney recipients followed for a minimum of 3 months from the time of transplant that is currently required. These cases will need to be documented in a log that includes the date of transplant, the recipient medical record number (or other unique identifier that can be verified by the OPTN Contractor), and the director of the training program's or the transplant program's primary transplant physician's signature.

All primary kidney transplant physician applicants will also be expected to document the evaluation of 25 potential kidney recipients and 10 potential living kidney donors. The potential kidney recipient evaluations must be documented in a log that lists each evaluation date and is signed by program director, division Chief, or department Chair from the program where the applicant gained the experience. Likewise, the 10 potential living donor evaluations must be documented in a log that includes each evaluation date, the potential living donor's medical record number (or other unique identifier than can be

verified by the OPTN Contractor), and a signature from the program director, division Chief, or department Chair from the program where the applicant gained this experience.

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

The impact of these changes will be evaluated as the MPSC receives primary kidney transplant physician key personnel applications. The MPSC will assess deficiencies in primary kidney transplant physician applications, as well as the type and frequency of questions raised about these new requirements.

Policy or Bylaws Language

Proposed new language is underlined (example) and language that is proposed for removal is struck through (~~example~~).

E.3 Primary Kidney Transplant Physician Requirements

A designated kidney transplant program must have a primary physician who meets *all* the following requirements:

1. The physician must have an M.D., D.O., or equivalent degree from another country, with a current license to practice medicine in the hospital's state or jurisdiction.
2. The physician must be accepted onto the hospital's medical staff, and be on site at this hospital.
3. The physician must have documentation from the hospital credentialing committee that it has verified the physician's state license, board certification, training, and transplant continuing medical education and that the physician is currently a member in good standing of the hospital's medical staff.
4. The physician must have current certification in nephrology by the American Board of Internal Medicine, the American Board of Pediatrics, or the Royal College of Physicians and Surgeons of Canada.

In place of current certification in nephrology by the American Board of Internal Medicine, the American Board of Pediatrics, or the Royal College of Physicians and Surgeons of Canada, the physician must:

- a. Be ineligible for American board certification.
- b. Provide a plan for continuing education that is comparable to American board maintenance of certification. This plan must at least require that the physician obtains 60 hours of Category I continuing medical education (CME) credits with self-assessment that are relevant to the individual's practice every three years. Self-assessment is defined as a written or electronic question-and-answer exercise that assesses understanding of the material in the CME program. A score of 75% or higher must be obtained on self-assessments. Repeated attempts to achieve an acceptable self-assessment score are allowed. The transplant hospital must document completion of this continuing education.
- c. Provide to the OPTN Contractor two letters of recommendation from directors of designated transplant programs not employed by the applying hospital. These letters must address:
 - i. Why an exception is reasonable.
 - ii. The physician's overall qualifications to act as a primary kidney transplant physician.
 - iii. The physician's personal integrity, honesty, and familiarity with and experience in adhering to OPTN obligations and compliance protocols.
 - iv. Any other matters judged appropriate.

If the physician has not adhered to the plan for maintaining continuing education or has not obtained the necessary CME credits with self-assessment, the transplant program will have a six-month grace period to address these deficiencies. If the physician has not fulfilled the requirements after the six-month grace period, and a key personnel change application has not been submitted, then the transplant program will be referred to the MPSC for appropriate action according to *Appendix L* of these Bylaws. If the OPTN Contractor becomes aware that a primary physician has not been compliant for 12 months or more and deficiencies still exist, then the transplant program will not be given any grace period and will be referred to the MPSC for appropriate action according to *Appendix L* of these Bylaws.

5. The physician must have completed at least one of the pathways listed below:

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- a. The ~~12-month~~ transplant nephrology fellowship pathway, as described in *Section E.3.A. ~~Twelve-month Transplant Nephrology Fellowship Pathway~~* below.
 - b. The clinical experience pathway, as described in *Section E.3.B. Clinical Experience Pathway* below.
 - c. The 3-year pediatric nephrology fellowship pathway, as described in *Section E.3.C. Three-year Pediatric Nephrology Fellowship Pathway* below.
 - d. The 12-month pediatric transplant nephrology fellowship pathway, as described in *Section E.3.D. Twelve-month Pediatric Transplant Nephrology Fellowship Pathway* below.
 - e. The combined pediatric nephrology training and experience pathway, as described in *Section E.3.E. Combined Pediatric Nephrology Training and Experience Pathway* below.
 - f. The conditional approval pathway, as described in *Section E.3.F. Conditional Approval for Primary Transplant Physician* below, if the primary kidney transplant physician changes at an approved kidney transplant program.

62 **A. ~~Twelve-month Transplant Nephrology Fellowship Pathway~~**

63 Physicians can meet the training requirements for a primary kidney transplant physician during a
64 separate ~~12-month~~ transplant nephrology fellowship if the following conditions are met:

- 65 1. The physician completed at least 12 consecutive months of specialized training in
66 transplantation under the direct supervision of a qualified kidney transplant physician and
67 along with a kidney transplant surgeon at a kidney transplant program that performs 30 or
68 more transplants each year. The training must have included at least 6 months of clinical
69 inpatient transplant service. The remaining time must have consisted of transplant-related
70 experience, such as experience in a tissue typing laboratory, on another solid organ
71 transplant service, or conducting basic or clinical transplant research.
- 72 2. During the fellowship period, the physician was directly involved in the primary care of 30 or
73 more newly transplanted kidney recipients and continued ~~to~~ the outpatient follow-up of these
74 recipients for a minimum of 3 months from the time of transplant. ~~If the physician's fellowship~~
75 was longer than 12 months, the physician also must have been directly involved in the
76 outpatient follow-up of at least 30 kidney recipients for an additional period of 3 consecutive
77 months. The care must be documented in a log that includes the date of transplant and the
78 recipient medical record number or other unique identifier that can be verified by the OPTN
79 Contractor. This recipient log must be signed by the director of the training program or the
80 transplant program's primary transplant physician.
- 81 3. During the fellowship period, the physician was directly involved in the evaluation of 25
82 potential kidney recipients, including participation in selection committee meetings. These
83 potential kidney recipient evaluations must be documented in a log that includes each
84 evaluation date and is signed by the director of the training program or the transplant
85 program's primary transplant physician.
- 86 4. During the fellowship period, the physician was directly involved in the evaluation of 10
87 potential living kidney donors, including participation in selection committee meetings. These
88 potential living kidney donor evaluations must be documented in a log that includes each
89 evaluation date and the potential living kidney donor's medical record number or other unique
90 identifier than can be verified by the OPTN Contractor. This potential living kidney donor
91 evaluation log must be signed by the director of the training program or the transplant
92 program's primary transplant physician.
- 93 ~~3-5.~~ The physician has maintained a current working knowledge of kidney transplantation, defined
94 as direct involvement in kidney transplant care in the last 2 years. This includes the

95 management of patients with end stage renal disease, the selection of appropriate recipients
96 for transplantation, donor selection, histocompatibility and tissue typing, immediate
97 postoperative patient care, the use of immunosuppressive therapy including side effects of
98 the drugs and complications of immunosuppression, differential diagnosis of renal
99 dysfunction in the allograft recipient, histological interpretation of allograft biopsies,
100 interpretation of ancillary tests for renal dysfunction, and long term outpatient care. The
101 curriculum for obtaining this knowledge should be approved by the Residency Review
102 Committee for Internal Medicine (RRC-IM) of the Accreditation Council for Graduate Medical
103 Education (ACGME).

104 46. The physician must have observed at least 3 kidney procurements, including at least 1
105 deceased donor and 1 living donor. The physician must have observed the evaluation,
106 donation process, and management of these donors. These observations must be
107 documented in a log that includes the date of procurement, location of the donor, and Donor
108 ID.

109 57. The physician must have observed at least 3 kidney transplants. The observation of these
110 transplants must be documented in a log that includes the transplant date, donor type, and
111 medical record number or other unique identifier that can be verified by the OPTN Contractor.

112 68. The following letters are submitted directly to the OPTN Contractor:
113 a. A letter from the director of the training program and the supervising qualified kidney
114 transplant physician verifying that the physician has met the above requirements and is
115 qualified to direct a kidney transplant program.
116 b. A letter of recommendation from the fellowship training program's primary physician and
117 transplant program director outlining the physician's overall qualifications to act as a
118 primary transplant physician, as well as the physician's personal integrity, honesty, and
119 familiarity with and experience in adhering to OPTN obligations and compliance
120 protocols, and any other matters judged appropriate. The MPSC may request additional
121 recommendation letters from the primary physician, primary surgeon, director, or others
122 affiliated with any transplant program previously served by the physician, at its discretion.
123 c. A letter from the physician that details the training and experience the physician has
124 gained in kidney transplantation.

125
126 The training requirements outlined above are in addition to other clinical requirements for general
127 nephrology training.

128
129 **B. Clinical Experience Pathway**

130 A physician can meet the requirements for a primary kidney transplant physician through
131 acquired clinical experience if the following conditions are met:

- 132 1. The physician has been directly involved in the primary care of 45 or more newly transplanted
133 kidney recipients and continued to the outpatient follow-up of these recipients for a minimum
134 of 3 months from the time of transplant. This patient care must have been provided over a 2
135 to 5-year period on an active kidney transplant service as the primary kidney transplant
136 physician or under the direct supervision of a qualified transplant physician and in conjunction
137 with a kidney transplant surgeon at a designated kidney transplant program. The care must
138 be documented in a log that includes the date of transplant and recipient medical record
139 number or other unique identifier that can be verified by the OPTN Contractor. The recipient
140 log should be signed by the program director, division Chief, or department Chair from the
141 program where the physician gained this experience.
- 142 2. The physician was directly involved in the evaluation of 25 potential kidney recipients,
143 including participation in selection committee meetings. These potential kidney recipient

144 evaluations must be documented in a log that includes each evaluation date and is signed by
145 the program director, division Chief, or department Chair from the program where the
146 physician gained this experience.

147 3. The physician was directly involved in the evaluation of 10 potential living kidney donors,
148 including participation in selection committee meetings. These potential living kidney donor
149 evaluations must be documented in a log that includes each evaluation date and the potential
150 living kidney donor's medical record number or other unique identifier than can be verified by
151 the OPTN Contractor. This potential living kidney donor evaluation log must be signed by the
152 program director, division Chief, or department Chair from the program where the physician
153 gained this experience.

154 24. The physician has maintained a current working knowledge of kidney transplantation, defined
155 as direct involvement in kidney transplant patient care over the last 2 years. This includes the
156 management of patients with end stage renal disease, the selection of appropriate recipients
157 for transplantation, donor selection, histocompatibility and tissue typing, immediate
158 postoperative patient care, the use of immunosuppressive therapy including side effects of
159 the drugs and complications of immunosuppression, differential diagnosis of renal
160 dysfunction in the allograft recipient, histological interpretation of allograft biopsies,
161 interpretation of ancillary tests for renal dysfunction, and long term outpatient care.

162 35. The physician must have observed at least 3 kidney procurements, including at least 1
163 deceased donor and 1 living donor. The physician must have observed the evaluation,
164 donation process, and management of these donors. These observations must be
165 documented in a log that includes the date of procurement, location of the donor, and Donor
166 ID.

167 46. The physician must have observed at least 3 kidney transplants. The observation of these
168 transplants must be documented in a log that includes the transplant date, donor type, and
169 medical record number or other unique identifier that can be verified by the OPTN Contractor.

170 57. The following letters are submitted directly to the OPTN Contractor:

- 171 a. A letter from the qualified transplant physician or the kidney transplant surgeon who has
172 been directly involved with the proposed physician documenting the physician's
173 experience and competence.
- 174 b. A letter of recommendation from the primary physician and transplant program director at
175 the transplant program last served by the physician outlining the physician's overall
176 qualifications to act as a primary transplant physician, as well as the physician's personal
177 integrity, honesty, and familiarity with and experience in adhering to OPTN obligations
178 and compliance protocols, and any other matters judged appropriate. The MPSC may
179 request additional recommendation letters from the primary physician, primary surgeon,
180 director, or others affiliated with any transplant program previously served by the
181 physician, at its discretion.
- 182 c. A letter from the physician that details the training and experience the physician has
183 gained in kidney transplantation.

184

185 **C. Three-year Pediatric Nephrology Fellowship Pathway**

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

- 191 1. During the 3-year training period the physician was directly involved in the primary care of 10
192 or more newly transplanted kidney recipients for at least 6 months from the time of transplant

- 193 and followed 30 ~~newly~~ transplanted kidney recipients for at least 6 months ~~from the time of~~
194 ~~transplant~~, under the direct supervision of a qualified kidney transplant physician and in
195 conjunction with a qualified kidney transplant surgeon. The pediatric nephrology program
196 director may elect to have a portion of the transplant experience completed at another kidney
197 transplant program in order to meet these requirements. This care must be documented in a
198 log that includes the date of transplant, and the recipient medical record number or other
199 unique identifier that can be verified by the OPTN Contractor. This recipient log must be
200 signed by the training program's director or the primary physician of the transplant program.
- 201 2. The experience caring for pediatric patients occurred with a qualified kidney transplant
202 physician and surgeon at a kidney transplant program that performs an average of at least 10
203 pediatric kidney transplants a year.
- 204 3. During the fellowship period, the physician was directly involved in the evaluation of 25
205 potential kidney recipients, including participation in selection committee meetings. These
206 potential kidney recipient evaluations must be documented in a log that includes each
207 evaluation date and is signed by the director of the training program or the transplant
208 program's primary transplant physician.
- 209 4. During the fellowship period, the physician was directly involved in the evaluation of 10
210 potential living kidney donors, including participation in selection committee meetings. These
211 potential living kidney donor evaluations must be documented in a log that includes each
212 evaluation date and the potential living kidney donor's medical record number or other unique
213 identifier than can be verified by the OPTN Contractor. This potential living kidney donor
214 evaluation log must be signed by the director of the training program or the transplant
215 program's primary transplant physician.
- 216 35. The physician has maintained a current working knowledge of kidney transplantation, defined
217 as direct involvement in kidney transplant patient care over the last 2 years. This includes the
218 management of pediatric patients with end-stage renal disease, the selection of appropriate
219 pediatric recipients for transplantation, donor selection, histocompatibility and tissue typing,
220 immediate post-operative care including those issues of management unique to the pediatric
221 recipient, fluid and electrolyte management, the use of immunosuppressive therapy in the
222 pediatric recipient including side-effects of drugs and complications of immunosuppression,
223 the effects of transplantation and immunosuppressive agents on growth and development,
224 differential diagnosis of renal dysfunction in the allograft recipient, manifestation of rejection
225 in the pediatric patient, histological interpretation of allograft biopsies, interpretation of
226 ancillary tests for renal dysfunction, and long-term outpatient care of pediatric allograft
227 recipients including management of hypertension, nutritional support, and drug dosage,
228 including antibiotics, in the pediatric patient. The curriculum for obtaining this knowledge must
229 be approved by the Residency Review Committee (RRC) -Ped of the ACGME.
- 230 46. The physician must have observed at least 3 kidney procurements, including at least 1
231 deceased donor and 1 living donor. The physician must have observed the evaluation,
232 donation process and management of these donors. These observations must be
233 documented in a log that includes the date of procurement, location of the donor, and Donor
234 ID.
- 235 57. The physician must have observed at least 3 kidney transplants involving a pediatric
236 recipient. The observation of these transplants must be documented in a log that includes the
237 transplant date, donor type, and medical record number or other unique identifier that can be
238 verified by the OPTN Contractor.
- 239 68. The following letters are submitted directly to the OPTN Contractor:

- 240 a. A letter from the director and the supervising qualified transplant physician and surgeon
241 of the fellowship training program verifying that the physician has met the above
242 requirements and is qualified to direct a kidney transplant program.
- 243 b. A letter of recommendation from the fellowship training program's primary physician and
244 transplant program director outlining the physician's overall qualifications to act as a
245 primary transplant physician, as well as the physician's personal integrity, honesty, and
246 familiarity with and experience in adhering to OPTN obligations, and any other matters
247 judged appropriate. The MPSC may request additional recommendation letters from the
248 primary physician, primary surgeon, director, or others affiliated with any transplant
249 program previously served by the physician, at its discretion.
- 250 c. A letter from the physician that details the training and experience the physician has
251 gained in kidney transplantation.

252
253 **D. Twelve-month Pediatric Transplant Nephrology Fellowship Pathway**

254 The requirements for the primary kidney transplant physician can be met during a separate
255 pediatric transplant nephrology fellowship if the following conditions are met:

- 256 1. The physician has current board certification in pediatric nephrology by the American Board
257 of Pediatrics, the Royal College of Physicians and Surgeons of Canada, or is approved by
258 the American Board of Pediatrics to take the certifying exam.
- 259 2. During the fellowship, the physician was directly involved in the primary care of 10 or more
260 newly transplanted kidney recipients for at least 6 months from the time of transplant and
261 followed 30 newly transplanted kidney recipients for at least 6 months from the time of
262 transplant, under the direct supervision of a qualified kidney transplant physician and in
263 conjunction with a qualified kidney transplant surgeon. The pediatric nephrology program
264 director may elect to have a portion of the transplant experience completed at another kidney
265 transplant program in order to meet these requirements. This care must be documented in a
266 recipient log that includes the date of transplant, and the recipient medical record number or
267 other unique identifier that can be verified by the OPTN Contractor. This log must be signed
268 by the training program director or the primary physician of the transplant program.
- 269 3. The experience in caring for pediatric patients occurred at a kidney transplant program with a
270 qualified kidney transplant physician and surgeon that performs an average of at least 10
271 pediatric kidney transplants a year.
- 272 4. During the four years that include the physician's three-year pediatric nephrology fellowship
273 and twelve-month pediatric transplant nephrology fellowship, the physician was directly
274 involved in the evaluation of 25 potential kidney recipients, including participation in selection
275 committee meetings. These potential kidney recipient evaluations must be documented in a
276 log that includes each evaluation date and is signed by the director of the training program or
277 the transplant program's primary transplant physician.
- 278 5. During the four years that include the physician's three-year pediatric nephrology fellowship
279 and twelve-month pediatric transplant nephrology fellowship, the physician was directly
280 involved in the evaluation of 10 potential living kidney donors, including participation in
281 selection committee meetings. These potential living kidney donor evaluations must be
282 documented in a log that includes each evaluation date and the potential living kidney donor's
283 medical record number or other unique identifier than can be verified by the OPTN
284 Contractor. This potential living kidney donor evaluation log must be signed by the director of
285 the training program or the transplant program's primary transplant physician.
- 286 46. The physician has maintained a current working knowledge of kidney transplantation, defined
287 as direct involvement in kidney transplant patient care in the past 2 years. This includes the

288 management of pediatric patients with end-stage renal disease, the selection of appropriate
289 pediatric recipients for transplantation, donor selection, histocompatibility and tissue typing,
290 immediate post-operative care including those issues of management unique to the pediatric
291 recipient, fluid and electrolyte management, the use of immunosuppressive therapy in the
292 pediatric recipient including side-effects of drugs and complications of immunosuppression,
293 the effects of transplantation and immunosuppressive agents on growth and development,
294 differential diagnosis of renal dysfunction in the allograft recipient, manifestation of rejection
295 in the pediatric patient, histological interpretation of allograft biopsies, interpretation of
296 ancillary tests for renal dysfunction, and long-term outpatient care of pediatric allograft
297 recipients including management of hypertension, nutritional support, and drug dosage,
298 including antibiotics, in the pediatric patient. The curriculum for obtaining this knowledge must
299 be approved by the Residency Review Committee (RRC) -Ped of the ACGME.

300 57. The physician must have observed at least 3 kidney procurements, including at least 1
301 deceased donor and 1 living donor. The physician must have observed the evaluation,
302 donation process, and management of these donors. These observations must be
303 documented in a log that includes the date of procurement, location of the donor, and Donor
304 ID.

305 68. The physician must have observed at least 3 kidney transplants involving a pediatric
306 recipient. The observation of these transplants must be documented in a log that includes the
307 transplant date, donor type, and medical record number or other unique identifier that can be
308 verified by the OPTN Contractor.

309 79. The following letters are submitted directly to the OPTN Contractor:

310 a. A letter from the director and the supervising qualified transplant physician and surgeon
311 of the fellowship training program verifying that the physician has met the above
312 requirements and is qualified to become the primary transplant physician of a designated
313 kidney transplant program.

314 b. A letter of recommendation from the fellowship training program's primary physician and
315 transplant program director outlining the physician's overall qualifications to act as a
316 primary transplant physician, as well as the physician's personal integrity, honesty, and
317 familiarity with and experience in adhering to OPTN obligations, and any other matters
318 judged appropriate. The MPSC may request additional recommendation letters from the
319 primary physician, primary surgeon, director, or others affiliated with any transplant
320 program previously served by the physician, at its discretion.

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

323

324

E. Combined Pediatric Nephrology Training and Experience Pathway

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

- 327 1. The physician has current board certification in pediatric nephrology by the American Board
328 of Pediatrics, the Royal College of Physicians and Surgeons of Canada, or is approved by
329 the American Board of Pediatrics to take the certifying exam.
- 330 2. The physician gained a minimum of 2 years of experience during or after fellowship, or
331 accumulated during both periods, at a kidney transplant program.
- 332 3. During the 2 or more years of accumulated experience, the physician was directly involved in
333 the primary care of 10 or more newly transplanted kidney recipients for at least 6 months
334 from the time of transplant and followed 30 ~~newly~~ transplanted kidney recipients for at least 6
335 months ~~from the time of transplant~~, under the direct supervision of a qualified kidney

336 transplant physician, along with a qualified kidney transplant surgeon. This care must be
337 documented in a recipient log that includes the date of transplant, and the recipient medical
338 record number or other unique identifier that can be verified by the OPTN Contractor. This log
339 must be signed by the training program director or the primary physician of the transplant
340 program.

341 4. The physician was directly involved in the evaluation of 25 potential kidney recipients,
342 including participation in selection committee meetings. These potential kidney recipient
343 evaluations must be documented in a log that includes each evaluation date and be signed by
344 the program director, division Chief, or department Chair from the program where the
345 physician gained this experience.

346 5. The physician was directly involved in the evaluation of 10 potential living kidney donors,
347 including participation in selection committee meetings. These potential living kidney donor
348 evaluations must be documented in a log that includes each evaluation date and the potential
349 living kidney donor's medical record number or other unique identifier than can be verified by
350 the OPTN Contractor. This potential living kidney donor evaluation log must be signed by the
351 program director, division Chief, or department Chair from the program where the physician
352 gained this experience.

353 46. The physician has maintained a current working knowledge of kidney transplantation, defined
354 as direct involvement in kidney transplant patient care during the past 2 years. This includes
355 the management of pediatric patients with end-stage renal disease, the selection of
356 appropriate pediatric recipients for transplantation, donor selection, histocompatibility and
357 tissue typing, immediate post-operative care including those issues of management unique to
358 the pediatric recipient, fluid and electrolyte management, the use of immunosuppressive
359 therapy in the pediatric recipient including side-effects of drugs and complications of
360 immunosuppression, the effects of transplantation and immunosuppressive agents on growth
361 and development, differential diagnosis of renal dysfunction in the allograft recipient,
362 manifestation of rejection in the pediatric patient, histological interpretation of allograft
363 biopsies, interpretation of ancillary tests for renal dysfunction, and long-term outpatient care
364 of pediatric allograft recipients including management of hypertension, nutritional support,
365 and drug dosage, including antibiotics, in the pediatric patient. The curriculum for obtaining
366 this knowledge must be approved by the Residency Review Committee (RRC) -Ped of the
367 ACGME or a Residency Review Committee.

368 57. The physician must have observed at least 3 kidney procurements, including at least 1
369 deceased donor and 1 living donor. The physician must have observed the evaluation,
370 donation process, and management of these donors. These observations must be
371 documented in a log that includes the date of procurement, location of the donor, and Donor
372 ID.

373 68. The physician must have observed at least 3 kidney transplants involving a pediatric
374 recipient. The observation of these transplants must be documented in a log that includes the
375 transplant date, donor type, and medical record number or other unique identifier that can be
376 verified by the OPTN Contractor.

377 79. The following letters are submitted directly to the OPTN Contractor:
378 a. A letter from the supervising qualified transplant physician and surgeon who were directly
379 involved with the physician documenting the physician's experience and competence.
380 b. A letter of recommendation from the fellowship training program's primary physician and
381 transplant program director outlining the physician's overall qualifications to act as a
382 primary transplant physician, as well as the physician's personal integrity, honesty, and
383 familiarity with and experience in adhering to OPTN obligations, and any other matters
384 judged appropriate. The MPSC may request additional recommendation letters from the

- 385 primary physician, primary surgeon, Director, or others affiliated with any transplant
386 program previously served by the physician, at its discretion.
387 c. A letter from the physician that details the training and experience the physician has
388 gained in kidney transplantation.
389

390 **F. Conditional Approval for Primary Transplant Physician**

391 If the primary kidney transplant physician changes at an approved kidney transplant program, a
392 physician can serve as the primary kidney transplant physician for a maximum of 12 months if the
393 following conditions are met:

- 394 1. The physician has been involved in the primary care of 23 or more newly transplanted kidney
395 recipients, and has ~~followed~~ continued the outpatient follow-up of these patients for at least 3
396 months from the time of their transplant. This care must be documented in a recipient log that
397 includes the date of transplant and the medical record number or other unique identifier that
398 can be verified by the OPTN Contractor. This log must be signed by the program director,
399 division chief, or department chair from the transplant program where the experience was
400 gained.
- 401 2. The physician was directly involved in the evaluation of 25 potential kidney recipients,
402 including participation in selection committee meetings. These potential kidney recipient
403 evaluations must be documented in a log that includes each evaluation date and is signed by
404 the program director, division Chief, or department Chair from the program where the
405 physician gained this experience.
- 406 3. The physician was directly involved in the evaluation of 10 potential living kidney donors,
407 including participation in selection committee meetings. These potential living kidney donor
408 evaluations must be documented in a log that includes each evaluation date and the potential
409 living kidney donor's medical record number or other unique identifier than can be verified by
410 the OPTN Contractor. This potential living kidney donor log must and be signed by program
411 director, division Chief, or department Chair from the program where the physician gained
412 this experience
- 413 ~~24.~~ The physician has maintained a current working knowledge of kidney transplantation, defined
414 as direct involvement in kidney transplant patient care during the last 2 years. This includes
415 the management of patients with end stage renal disease, the selection of appropriate
416 recipients for transplantation, donor selection, histocompatibility and tissue typing, immediate
417 postoperative patient care, the use of immunosuppressive therapy including side effects of
418 the drugs and complications of immunosuppression, differential diagnosis of renal
419 dysfunction in the allograft recipient, histological interpretation of allograft biopsies,
420 interpretation of ancillary tests for renal dysfunction, and long-term outpatient care.
- 421 ~~35.~~ The physician has 12 months experience on an active kidney inpatient transplant service as
422 the primary kidney transplant physician or under the direct supervision of a qualified kidney
423 transplant physician and in conjunction with a kidney transplant surgeon at a designated
424 kidney transplant program. These 12 months of experience must be acquired within a 2-year
425 period.
- 426 46. The physician must have observed at least 3 kidney procurements, including at least 1
427 deceased donor and 1 living donor. The physician must have observed the evaluation,
428 donation process, and management of these donors. These observations must be
429 documented in a log that includes the date of procurement, location of the donor, and Donor
430 ID.

- 431 57. The physician must have observed at least 3 kidney transplants. The observation of these
432 transplants must be documented in a log that includes the transplant date, donor type, and
433 medical record number or other unique identifier that can be verified by the OPTN Contractor.
434 68. The program has established and documented a consulting relationship with counterparts at
435 another kidney transplant program.
436 79. The transplant program submits activity reports to the OPTN Contractor every 2 months
437 describing the transplant activity, transplant outcomes, physician recruitment efforts, and
438 other operating conditions as required by the MPSC to demonstrate the ongoing quality and
439 efficient patient care at the program. The activity reports must also demonstrate that the
440 physician is making sufficient progress to meet the required involvement in the primary care
441 of 45 or more kidney transplant recipients, or that the program is making sufficient progress in
442 recruiting a physician who meets all requirements for primary kidney transplant physician and
443 who will be on site and approved by the MPSC to assume the role of primary physician by the
444 end of the 12 month conditional approval period.
445 810. The following letters are submitted directly to the OPTN Contractor:
446 a. A letter from the supervising qualified transplant physician and surgeon who were directly
447 involved with the physician documenting the physician's experience and competence.
448 b. A letter of recommendation from the primary physician and director at the transplant
449 program last served by the physician outlining the physician's overall qualifications to act
450 as a primary transplant physician, as well as the physician's personal integrity, honesty,
451 and familiarity with and experience in adhering to OPTN obligations, and any other
452 matters judged appropriate. The MPSC may request additional recommendation letters
453 from the primary physician, primary surgeon, director, or others affiliated with any
454 transplant program previously served by the physician, at its discretion.
455 c. A letter from the physician that details the training and experience the physician has
456 gained in kidney transplantation.

457
458 The 12-month conditional approval period begins on the initial approval date granted to the
459 personnel change application, whether it is interim approval granted by the MPSC subcommittee,
460 or approval granted by the full MPSC. The conditional approval period ends 12 months after the
461 first approval date of the personnel change application.
462

463 The MPSC may consider on a case-by-case basis and grant a 6-month extension to a transplant
464 program that provides substantial evidence of progress toward fulfilling the requirements but is
465 unable to complete the requirements within one year.
466

467 If the program is unable to demonstrate that it has an individual on site who can meet the
468 requirements as described in *Sections E.3.A through E.3.F* above at the end of the 12-month
469 conditional approval period, it must inactivate. The requirements for program inactivation are
470 described in *Appendix K: Transplant Program Inactivity, Withdrawal, and Termination* of these
471 Bylaws.
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