White Paper

General Considerations in Assessment for Transplant Candidacy

OPTN Ethics Committee

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General Considerations in Assessment for Transplant Candidacy

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Executive Summary

Transplant programs in the United States evaluate the suitability of potential transplant candidates using listing criteria developed by the transplant programs. The criteria are both medical and nonmedical in nature. The use of non-medical criteria in evaluating patients for transplantation can affect the decision to list a potential transplant candidate. This white paper offers an analysis of ethical considerations associated with non-medical criteria commonly used by transplant programs in listing decisions. It addresses use of life expectancy, potentially injurious behaviors, adherence, repeat transplantation, incarceration status, immigration status, and social support as transplant evaluation criteria. This list is neither exhaustive nor immutable.

The intent of this white paper is to advise transplant programs and provide them with information about the considerations discussed herein. The Organ Procurement and Transplantation Network (OPTN) has the authority to publish this white paper based on the Final Rule's requirement that "a transplant hospital which is an OPTN member may list individuals, consistent with the OPTN criteria..."¹ Likewise, the Final Rule states that the OPTN standardizes "the criteria...for adding individuals to, and removing candidates from, organ transplant waiting lists."² This white paper supports the standardization of criteria by encouraging transplant programs to consider the ethical implications of commonly used criteria.

¹ 42 CFR § 121.5(a)

² 42 CFR § 121.8(b)(1)

Background

Non-medical factors relevant to transplant evaluations and listing decisions often include, but may not be limited to, psychosocial factors (e.g., social support, patient adherence).³ Use of non-medical transplant evaluation criteria remains an area of concern to many in the transplant community.^{4,5} Non-medical criteria are thought, by some, to uphold the principle of utility by selecting candidates who may have better adherence or post-transplant outcomes. Ethical concerns with using non-medical criteria to evaluate potential transplant candidates involve equity and justice.^{6,7,8,9} Inconsistent and subjective use of non-medical criteria without clear standards is likely to result in the inconsistent distribution of medical good among potential beneficiaries, undermining equal respect and concern for individuals.

The elements of non-medical transplant candidate evaluation should reflect the most current evidence available and their use should reflect a balance of ethical principles of utility, justice, and respect for persons. Importantly, these factors should be consistently applied to all potential transplant candidates, while ensuring the evaluation process is transparent, evidence-based (where available), and revisable.

The OPTN Ethics Committee (hereafter, the Committee) has reviewed and revised its historical position statement on considerations for transplant candidacy, including non-medical criteria, on several occasions. The OPTN Board of Directors approved the General Considerations in Assessment for Transplant Candidacy in 2015. As part of the 2015 revisions, the Committee provided ethical analyses of several criteria cited in this document, including life expectancy, organ failure caused by behavior, compliance/adherence, and repeat transplantation.

Purpose

In deciding to pursue a revised version of the General Considerations in Assessment for Transplant Candidacy analysis, the Committee determined that there may be aspects of the 2015 version that are

^{3 42} CFR §482.90.

⁴ The following references identify specific ethical concerns related to the use of non-medical criteria: (a) Disability: National Council on Disability, *Organ Transplant Discrimination Against People with Disabilities*, September 25, 2019, accessed on September 23, 2020. https://ncd.gov/sites/default/files/NCD_Organ_Transplant_508.pdf; (b) Immigration: Ansell, David, Pallok, Kristen, Guzman, Marieli D, Flores, Marycarmen, and Oberholzer, Jose. "Illinois Law Opens Door to Kidney Transplants for Undocumented Immigrants." *Health Affairs (Project Hope*) 34, no. 5 (2015): 781-87.; (c) Immigrant Kidney Transplantation Outcomes: Shen, Jenny I, Hercz, Daniel, Barba, Lilly M, Wilhalme, Holly, Lum, Erik L, Huang, Edmund, Reddy, Uttam, Salas, Leslie, Vangala, Sitaram, and Norris, Keith C. "Association of Citizenship Status With Kidney Transplantation in Medicaid Patients." *American Journal of Kidney Diseases* 71, no. 2 (2018): 182-90.; and (d) Poverty: Simmerling, Mary. "Beyond Scarcity: Poverty as a Contraindication for Organ Transplantation." *The Virtual Mentor* 9, no. 6 (2007): 441.

⁵ Ellen Jean Hirst, "Hunger Strikers Demand Chance at Organ Transplants," chicagotribune.com, September 8, 2018, accessed on September 29, 2020. https://www.chicagotribune.com/news/ct-xpm-2013-08-06-ct-met-hunger-strike-northwestern-0806-20130806-story.html.

 ⁶ Ladin, Keren, Marotta, Satia A, Butt, Zeeshan, Gordon, Elisa J, Daniels, Norman, Lavelle, Tara A, and Hanto, Douglas W. "A Mixed-Methods Approach to Understanding Variation in Social Support Requirements and Implications for Access to Transplantation in the United States." *Progress in Transplantation* (Aliso Viejo, Calif.) 29, no. 4 (2019): 152692481987438-353.
 ⁷ Majeske, R. A. "Transforming Objectivity to Promote Equity in Transplant Candidate Selection." *Theoretical Medicine* 17, no. 1 (1996): 45-59.

⁸ Batabyal, Pikli, Chapman, Jeremy R, Wong, Germaine, Craig, Jonathan C, and Tong, Allison. "Clinical Practice Guidelines on Wait-listing for Kidney Transplantation: Consistent and Equitable?" *Transplantation* 94, no. 7 (2012): 703-13.

⁹ OPTN Ethics Committee, Ethical Principles in the Allocation of Human Organs, June 2015, accessed 10/02/2020. https://optn.transplant.hrsa.gov/resources/ethics/ethical-principles-in-the-allocation-of-human-organs/

outdated or could benefit from revision and updates. For example, the discussion of "Alternative Therapies" was removed from this re-write because consideration of alternative therapies before proceeding with transplantation is a common practice among programs now. In addition, new criteria were added, including incarceration status and social supports. The following discussion offers an overview of the ethical challenges associated with the use of non-medical criteria.

This analysis relies on the three ethical principles identified in the *Ethical Principles in the Allocation of Human Organs*, which include utility, justice, and respect for persons.¹⁰ As described in the *Ethical Principles...*, utility refers to the maximization of net benefit to the community and justice refers to the fair pattern of distribution of benefits. The principle of respect for persons primarily conveys the concept of respect for autonomy. Transplant evaluations should balance justice requirements and respect for persons with utility considerations, including efforts to avoid futility.¹¹

The following white paper is submitted under the authority of the OPTN Final Rule, which states that "a transplant hospital which is an OPTN member may list individuals, consistent with OPTN criteria..."¹² Furthermore, the OPTN has the authority under the Final Rule to standardize the criteria that are used "for adding individuals to, and removing candidates from, organ transplant waiting lists."¹³ This white paper addresses common criteria transplant programs use for adding and removing individuals from the waiting list. Encouraging transplant programs that use such criteria to consider, at a minimum, the ethical implications creates a minimum standard for use of the criteria.

Criteria Considered

This white paper revises the current version of the General Considerations in Assessment for Transplant Candidacy to ensure the transplant community is aware of the most current ethical discussions and research surrounding these topics at it related to suitability for transplant. It was determined that aspects of the current version are outdated and could benefit from revision. It was also determined that new criteria should be included.

The criteria discussed in this white paper were selected because they are not directly part of a medical evaluation or medical assessment for transplant candidacy, but are important enough to warrant consideration. The Final Rule requires criteria to be measurable and medical to the extent possible. When other criteria are used, it is appropriate to encourage the use of parameters in order to support the standardization of more qualitative criteria. Such parameters include the ethical considerations of employing that criteria. As such, ethical considerations related to the following criteria are included to aid transplant programs with their listing decisions:

- Life Expectancy
- Potentially Injurious Behavior
- Adherence
- Repeat transplantation

 ¹⁰ OPTN Ethics Committee. Ethical Principles in the Allocation of Human Organs, June 2015, <u>https://optn.transplant.hrsa.gov/resources/ethics/ethical-principles-in-the-allocation-of-human-organs/</u> (accessed online on September 19, 2020)
 ¹¹ OPTN Ethics Committee. Ethical Principles in the Allocation of Human Organs, June 2015, <u>https://optn.transplant.hrsa.gov/resources/ethics/ethical-principles-in-the-allocation-of-human-organs/</u> (accessed online on September 19, 2020)
 ¹² 42 CFR §121.5(a)

^{13 42} CFR §121.8.(b)(1)



- Incarceration status
- Immigration status
- Social support

NOTA and Final Rule Analysis

Determining suitability for transplant, and thus, determining whether a patient should be listed as a candidate with the OPTN, is a decision that lies with transplant programs.¹⁴ While transplant hospitals primarily rely on objective, measurable medical criteria, they also often incorporate psychosocial, non-medical considerations into their determination of suitability for listing. This paper provides an ethical analysis of some of those considerations.

Conclusion

Use of non-medical criteria continues to raise ethical concerns insofar as they commonly: (1) lack clear standards and thresholds; (2) are inconsistently applied; (3) are susceptible to stereotyping and instrumental value judgments; (4) are not transparent to patients; and (5) are not consistently supported by evidence. As such, transplant evaluations should not exclusively rely on non-medical criteria. When non-medical criteria are included in listing considerations, transplant programs should apply them without bias. This white paper is intended to help advise programs on the use of certain non-medical criteria.

¹⁴ 42 CFR §121.5(b). OPTN Bylaws, *Appendix D.12.D: Candidate Selection Procedures*, effective December 7, 2020, <u>https://optn.transplant.hrsa.gov/media/1201/optn_bylaws.pdf</u> (accessed online on January 19, 2021)

White Paper

1 General Considerations in Assessment for Transplant Candidacy

2 Reviewed in 2015

- 3 Transplant centers are encouraged to develop their own guidelines for transplant candidate
- 4 consideration. Each potential transplant candidate should be examined individually and any and all
- 5 guidelines should be applied without any type of ethnicity bias.
- 6
- 7 Preamble
- 8 The concept of non-medical transplant candidate criteria is an area of great concern. Most transplant
- 9 programs in the United States use some type of non-medical evaluation of patients for transplantation.
- 10 Historically, psychosocial evaluations of potential transplant candidates have been conducted and the
- 11 results have influenced the possible listing of these patients in a variety of ways. There is general
- 12 agreement that non-medical transplant candidate criteria need to be evaluated. The legitimate
- 13 substance of such an evaluation could cover a very wide range of topics. To the greatest extent possible,
- 14 any acceptance criteria should be broad and universal.
- 15
- 16 The UNOS Ethics Committee has chosen to address the criteria of life expectancy, organ failure caused
- 17 by behavior, compliance/adherence, repeat transplantation and alternative therapies. The list is
- 18 recognized as neither exhaustive nor immutable. The elements of non-medical transplant candidate
- 19 evaluation will and should reflect changes that occur in technology, medicine and other related fields
- 20 while reflecting the most current knowledge of scientific and social issues in transplantation. Therefore,
- 21 the non-medical transplant candidate criteria should be continuously reassessed and modified as
- 22 necessary. However, because we are serving individual human beings with highly complex medical
- 23 situations, a process of *individual* evaluation must be maintained within the broad parameters.
- 24
- 25 The Ethics Committee also realizes the catalyst for all transplant candidate criteria is the shortage of
- 26 available organs for transplantation. Because donated organs are a severely limited resource the best
- 27 potential recipients should be identified. The probability of a good outcome must be highly emphasized
- 28 to achieve the maximum benefit for all transplants. Were there an ample supply of transplantable
- 29 organs, nearly every person in need could be a transplant candidate. To this end, it is affirmed that
- 30 transplantation is not a universal option. Medical professionals, while honoring the moral obligations to
- 31 extend life and relieve suffering whenever possible, must also recognize the limitations of
- 32 transplantation in meeting these ends.
- 33

34 Life Expectancy

- 35 While the Committee would not recommend arbitrary age or co-morbidity limits for transplantation,
- 36 members generally concur that transplantation should be carefully considered if the candidate's
- 37 reasonable life expectancy with a functioning graft, based on factors such as age or co-morbid
- 38 conditions, is significantly shorter than the reasonably expected "life span" of the transplanted organ.
- 39

40 Organ Failure Caused by Behavior

- 41 In social and medical venues, debate continues to focus upon alcoholism, drug abuse, smoking, eating
- 42 disorders and other behaviors as diseases or character flaws. Such behaviors are associated with disease

- 43 processes in many adults. The Ethics Committee has historically supported the conclusion that past
- 44 behavior that results in organ failure should not be considered a sole basis for excluding transplant
- 45 candidates. However, additional discussion of this issue in a societal context may be warranted.
- 46

47 Compliance/Adherence

- 48 It is difficult to apply broad measures of compliance to accepting transplant candidates, since empirical
- 49 measures are limited and medical professionals often approach these issues subjectively. However,
- 50 transplantation should be considered very cautiously for individuals who have demonstrated serious,
- 51 consistent, and documented non-compliance in current or previous treatment.
- 52

53 Repeat Transplantation

- 54 The Ethics Committee acknowledges the issue of justice in considering repeat transplantation. Graft
- 55 failure, particularly early or immediate failure, evokes significant concerns regarding repeat
- 56 transplantation. However, the likelihood of long-term survival of a repeat transplant should receive
- 57 strong consideration.
- 58

59 Alternative Therapies

- 60 The presence or absence of alternative therapies should be carefully weighed against other factors in
- 61 evaluation. In some cases the need for a transplant may be delayed, even prevented, by judicious use of
- 62 other medical or surgical procedures.
- 63

64 <u>Revised in 2020</u>

- 65 <u>Transplant centers are encouraged to develop their own guidelines for transplant consideration. Each</u>
- 66 potential transplant candidate should be examined individually and any and all guidelines should be
- 67 *applied without any type of ethnicity bias.*
- 68

69 <u>Preamble</u>

- 70 Transplant programs in the United States evaluate the suitability of potential transplant candidates
- 71 using listing criteria developed by the transplant programs. The criteria are both medical and non-
- 72 medical in nature. The use of non-medical criteria in evaluating patients for transplantation can affect
- 73 the decision to accept a potential transplant candidate. This white paper offers an analysis of ethical
- 74 considerations associated with non-medical criteria commonly used by transplant programs in listing
- 75 <u>decisions. It addresses use of life expectancy, potentially injurious behaviors, adherence, repeat</u>
- 76 transplantation, incarceration status, immigration status, and social support as transplant evaluation
- 77 <u>criteria. This list is neither exhaustive nor immutable.</u>
- 78
- 79 Non-medical factors relevant to transplant evaluations and listing decisions often include, but may not
- 80 <u>be limited to, psychosocial factors (e.g., social support, patient adherence).¹⁵ Use of non-medical</u>

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81	transplant evaluation criteria remains an area of concern to many in the transplant community ^{16,17} Non-
82	medical criteria are thought, by some, to uphold the principle of utility by selecting candidates who may
83	have better adherence or post-transplant outcomes. Ethical concerns with using non-medical criteria to
84	evaluate potential transplant candidates involve equity and justice. ^{18,19,20,21} Inconsistent and subjective
85	use of non-medical criteria without clear standards is likely to result in the inconsistent distribution of
86	medical good among potential beneficiaries, undermining equal respect and concern for individuals.
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88	The elements of non-medical transplant candidate evaluation should reflect the most current evidence
89	available and their use should reflect a balance of ethical principles of utility, justice, and respect for
90	persons. Importantly, these factors should be consistently applied to all potential transplant candidates,
91	while ensuring the evaluation process is transparent, evidence-based (where available), and revisable.
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93	This analysis relies on the three ethical principles identified in the Ethical Principles in the Allocation of
94	Human Organs, which include utility, justice, and respect for persons. ²² As described in the Ethical
95	Principles, utility refers to the maximization of net benefit to the community and justice refers to the
96	fair pattern of distribution of benefits. The principle of respect for persons primarily conveys the
97	concept of respect for autonomy. Transplant evaluations should balance justice requirements and
98	respect for persons with utility considerations, including efforts to avoid futility. ²³
99	
100	The OPTN has reviewed and revised its historical position statement on transplant candidacy for
101	considerations, including non-medical criteria, on several occasions, most recently in 2015. ²⁴²⁵ At the

¹⁶ The following references identify specific ethical concerns related to the use of non-medical criteria: (a) Disability: National Council on Disability, Organ Transplant Discrimination Against People with Disabilities, September 25, 2019, accessed on September 23, 2020. https://ncd.gov/sites/default/files/NCD_Organ_Transplant_508.pdf; (b) Immigration: Ansell, David, Pallok, Kristen, Guzman, Marieli D, Flores, Marycarmen, and Oberholzer, Jose. "Illinois Law Opens Door to Kidney Transplants for Undocumented Immigrants." *Health Affairs (Project Hope)* 34, no. 5 (2015): 781-87.; (c) Immigrant Kidney Transplantation Outcomes: Shen, Jenny I, Hercz, Daniel, Barba, Lilly M, Wilhalme, Holly, Lum, Erik L, Huang, Edmund, Reddy, Uttam, Salas, Leslie, Vangala, Sitaram, and Norris, Keith C. "Association of Citizenship Status With Kidney Transplantation in Medicaid Patients." *American Journal of Kidney Diseases* 71, no. 2 (2018): 182-90.; and (d) Poverty: Simmerling, Mary. "Beyond Scarcity: Poverty as a Contraindication for Organ Transplantation." *The Virtual Mentor* 9, no. 6 (2007): 441.

¹⁷ Ellen Jean Hirst, "Hunger Strikers Demand Chance at Organ Transplants," chicagotribune.com, September 8, 2018, accessed on September 29, 2020. https://www.chicagotribune.com/news/ct-xpm-2013-08-06-ct-met-hunger-strike-northwestern-0806-20130806-story.html.

 ¹⁸ Ladin, Keren, Marotta, Satia A, Butt, Zeeshan, Gordon, Elisa J, Daniels, Norman, Lavelle, Tara A, and Hanto, Douglas W. "A Mixed-Methods Approach to Understanding Variation in Social Support Requirements and Implications for Access to Transplantation in the United States." *Progress in Transplantation* (Aliso Viejo, Calif.) 29, no. 4 (2019): 152692481987438-353.
 ¹⁹ Majeske, R. A. "Transforming Objectivity to Promote Equity in Transplant Candidate Selection." *Theoretical Medicine* 17, no. 1

^{(1996): 45-59.} ²⁰ Batabyal, Pikli, Chapman, Jeremy R, Wong, Germaine, Craig, Jonathan C, and Tong, Allison. "Clinical Practice Guidelines on Wait-listing for Kidney Transplantation: Consistent and Equitable?" *Transplantation* 94, no. 7 (2012): 703-13.

²¹ OPTN Ethics Committee, Ethical Principles in the Allocation of Human Organs, June 2015, accessed 10/02/2020.

https://optn.transplant.hrsa.gov/resources/ethics/ethical-principles-in-the-allocation-of-human-organs/

²² OPTN Ethics Committee. Ethical Principles in the Allocation of Human Organs, June 2015,

https://optn.transplant.hrsa.gov/resources/ethics/ethical-principles-in-the-allocation-of-human-organs/ (accessed online on September 19, 2020)

²³ OPTN Ethics Committee. Ethical Principles in the Allocation of Human Organs, June 2015,

https://optn.transplant.hrsa.gov/resources/ethics/ethical-principles-in-the-allocation-of-human-organs/ (accessed online on September 19, 2020)

²⁴ OPTN Ethic Committee, Report to the Board of Directors, March 2-3, 2009.

²⁵ OPTN, White Paper: General Considerations in Assessment for Transplant Candidacy, accessed 09/23/2020.

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- 102 time, the OPTN provided ethical analyses of several criteria cited in this document, including life
- 103 expectancy, organ failure caused by behavior, compliance/adherence, and repeat transplantation. In
- 104 deciding to pursue a revised version, it was determined that there may be aspects of the 2015 version
- 105 that are outdated or could benefit from revision and updates. The following discussion offers an
- 106 overview of the ethical challenges associated with the use of non-medical criteria.
- 107
- 108 <u>Life Expectancy</u>
- 109 Supported largely by the principle of utility, as discussed in the Ethical Principles in the Allocation of
- 110 *Human Organs*, potential transplant candidates with longer life expectancy may, with a successful
- 111 <u>transplant, achieve the greatest benefit in terms of years of life saved.²⁶ The OPTN concurs that a</u>
- 112 patient's ability to benefit from transplant should align with the organ's potential longevity. While both
- 113 <u>a patient's life expectancy and current state of health may be correlated to age, age itself should not be</u>
- 114 <u>used to restrict transplantation owing to considerations of justice and respect for persons.²⁷ Concerns of justice, the ability of all persons to benefit from transplantation, such as those articulated in the Age</u>
- 116 Discrimination Act of 1975,²⁸ preclude federally funded programs, like the OPTN, from engaging in age
- 117 discrimination. In kind, the Affordable Care Act prohibits health care programs or activities from
- 118 discriminating on the basis of age alone.²⁹ While the use of age by itself should not be used as a sole
- 119 criterion for determining eligibility for potential transplant, it is ethically permissible to consider
- 120 longevity and success of the graft. Age does not offer the full picture in determining the life expectancy
- and it precludes the possibility of some individuals being listed who might otherwise have made good
- 122 candidates, thereby not respecting their autonomy.
- 123

124 Potentially Injurious Behavior

- 125 Ethical concerns persist with using potentially injurious behaviors (e.g. substance abuse, unhealthy
- 126 <u>eating, non-adherence to medical recommendations, etc.</u>) as criteria to rule out transplant candidacy.
- 127 Although assessment based on a potential candidate's participation in these behaviors may be
- 128 supported by the principle of utility, as they may be seen to influence graft survival and broader
- 129 transplant outcomes, these considerations need to be weighed against considerations of justice and
- 130 respect for persons. In terms of utility alone, the evidence linking potentially injurious behavior to
- 131 <u>transplant outcomes is essential but currently inconclusive.^{30,31,32}</u>
- 132

²⁶ OPTN Ethics Committee. Ethical Principles in the Allocation of Human Organs, June 2015,

https://optn.transplant.hrsa.gov/resources/ethics/ethical-principles-in-the-allocation-of-human-organs/ (accessed online on September 19, 2020)

²⁸ 42 U.S.C §§6101-6107.

²⁷ Eidelson, Benjamin. "Kidney Allocation and the Limits of the Age Discrimination Act." *The Yale Law Journal* 122, no. 6 (2013): 1635-652.

 ²⁹ 42 U.S.C §18116; and National Council on Disability, Organ Transplant Discrimination Against People with Disabilities, September 25, 2019, accessed on September 23, 2020. https://ncd.gov/sites/default/files/NCD_Organ_Transplant_508.pdf
 ³⁰ Pageaux, G-P, Michel, J, Coste, V, Perney, P, Possoz, P, Perrigault, P-F, Navarro, F, Fabre, J-M, Domergue, J, Blanc, P, and Larrey, D. "Alcoholic Cirrhosis Is a Good Indication for Liver Transplantation, Even for Cases of Recidivism." Gut 45, no. 3 (1999): 421-26.

³¹ Koch, Monika, and Banys, Peter. "Liver Transplantation and Opioid Dependence." JAMA : The Journal of the American Medical Association 285, no. 8 (2001): 1056-058.

³² Wakeman, Sarah E, Ladin, Keren, Brennan, Tim, and Chung, Raymond T. "Opioid Use Disorder, Stigma, and Transplantation: A Call to Action." Annals of Internal Medicine 169, no. 3 (2018): 188.

133	Potentially injurious behaviors associated with negative outcomes may be partly due to personal choice
134	and as such may involve personal responsibility or autonomy. However, these behaviors are also known
135	to be significantly influenced by underlying psychological, genetic, economic, and systemic factors,
136	including early life exposures – factors over which patients may have little control. ³³ For example, one's
137	diet is not a straightforward reflection of personal choice, but rather determined by several factors
138	including one's access to a grocery store which sells healthy food. Factors predicting substance use
139	disorders similarly are shared between genetic and social precursors, as only some are related to
140	personal choice. ³⁴ While potentially injurious behaviors may be due, in part, to personal choice,
141	transplant providers should not automatically assume potential transplant candidates are solely
141	responsible for engaging in those behaviors as they may be caused by factors over which patients do not
142	have full control.
143	
144	Excluding patients from transplantation due to potentially injurious behaviors that are influenced by
145	factors beyond patients' control can exacerbate disparities in health and access to health care, thereby
140	undermining justice and respect for persons in access to transplantation. Consequently, to the extent
148	that is possible, balancing the principles of utility, justice, and respect for persons requires that
149	considerations meant to lessen the impact of behavioral factors, such as abstinence periods for alcohol
150	use disorder, be objective and evidence-based. ³⁵ Considering the contribution of multifactorial factors to
151	both behavior and subsequent organ loss, and the insufficient evidence supporting the use of some
152	factors, the OPTN continues to affirm that evaluation and listing decisions should be driven primarily by
153	medical benefit, and that potentially injurious behavior should not be considered a sole basis for
154	excluding transplant candidates. ³⁶ In other words, the mere presence of a potentially injurious behavior,
155	such as a history of substance use, should not automatically rule one out as a potential transplant
156	candidate, as this would violate both respect for persons and justice.
157	
158	Adherence
159	Adherence (understood to be a bi-directional, proactive process of discussion and agreement between
160	the patient and the medical team, on a course of therapy or management) ³⁷ has limited objective
161	measures. Adhering to a medical regimen post-transplant increases the likelihood of a successful
162	transplant, increasing utility. Thus, transplanting patients who will be adherent is supported by the

164 165

163

principle of utility. However, there are few reliable predictors of post-transplant adherence, and medical

professionals commonly approach these issues inconsistently.³⁸

³³ Goldblatt, Phillip B, Moore, Mary E, and Stunkard, Albert J. "Social Factors in Obesity." JAMA : The Journal of the American Medical Association 192, no. 12 (1965): 1039-044. Adler, Nancy E, Glymour, M. Maria, and Fielding, Jonathan. "Addressing Social Determinants of Health and Health Inequalities." JAMA : The Journal of the American Medical Association 316, no. 16 (2016): 1641.

³⁴ Bevilacqua, L, and Goldman, D. "Genes and Addictions." Clinical Pharmacology and Therapeutics 85, no. 4 (2009): 359-61.
Sinha, Rajita. "Chronic Stress, Drug Use, and Vulnerability to Addiction." Annals of the New York Academy of Sciences 1141, no. 1 (2008): 105-30.

 ³⁵ Singhvi, Ajay, Welch, Alexandra N, Levitsky, Josh, Singhvi, Deepti, and Gordon, Elisa J. "Ethical Considerations of Transplantation and Living Donation for Patients with Alcoholic Liver Diseases." AMA Journal of Ethics 18, no. 2 (2016): 163-73.
 ³⁶ 42 U.S.C §18116; and National Council on Disability, Organ Transplant Discrimination Against People with Disabilities, September 25, 2019, accessed on September 23, 2020. https://ncd.gov/sites/default/files/NCD Organ Transplant 508.pdf.
 ³⁷ World Health Organization. 2003. Adherence to Long-term Therapies : Evidence for Action. Geneva: World Health

Organization. Accessed October 8, 2020. ProQuest Ebook Central. ³⁸ Dobbels, Fabienne, Vanhaecke, Johan, Dupont, Lieven, Nevens, Frederik, Verleden, Geert, Pirenne, Jacques, and De Geest, Sabina. "Pretransplant Predictors of Posttransplant Adherence and Clinical Outcome: An Evidence Base for Pretransplant Psychosocial Screening." Transplantation 87, no. 10 (2009): 1497-504.

- 166 Justice requires that a history of consistent and documented treatment non-adherence should be
- 167 <u>considered by the transplant team in the context of barriers to adherence and other medical and</u>
- 168 psychosocial criteria. A transplant program should also consider an individual's expressed willingness to
- 169 follow treatment regimes. Patients may experience disparities in access to care based on geography,
- 170 resources and financial status which can adversely affect both their ability to adhere to
- 171 recommendations, and the implicit perceptions held by the clinicians about their ability to so adhere.
- 172 Transplant program staff may evaluate these barriers and consider providing support, including ancillary
- 173 services such as counseling to candidates who lack adequate resources or have psychosocial challenges.
- 174

175 <u>Repeat Transplantation</u>

- 176 The OPTN acknowledges that repeat transplantation raises concerns about justice, namely, that
- 177 <u>allocating multiple organs to a single person may be considered less 'fair' while others await a first</u>
- 178 transplant. That said, graft failure can occur at any time after transplantation and for many reasons,
- 179 many beyond the control of the patient, such as poor initial quality of the transplanted graft, or other
- 180 factors, including having been a living donor. Evaluations of potential transplant candidates for repeat
- 181 transplantation should consider psychosocial and medical factors as well as the likelihood of long-term
- 182 <u>survival of a repeat transplant. Repeat transplantation should not be regarded as the sole criterion</u>
- 183 <u>either to restrict or promote candidacy.</u>
- 184

185 Incarceration Status

- 186 The OPTN recognizes that incarcerated individuals, as well as individuals who are at high risk for
- 187 recidivism for incarceration (as determined by evidence-based indicators such as age, poor criminal
- 188 history, negative peer associations, substance use, and antisocial personality disorder),³⁹ face barriers to
- 189 <u>successful transplantation. The OPTN affirms its position established in the white paper, *Convicted*</u>
- 190 <u>Criminals and Transplant Evaluation that "absent any societal imperative, one's status as a prisoner</u>
- 191 <u>should not preclude them from consideration for a transplant; such consideration does not guarantee</u>
- 192 <u>transplantation."⁴⁰ Additional steps should be taken to collaborate with correctional authorities to</u>
- 193 provide comprehensive post-transplant care to incarcerated individuals, should the patient be deemed a
- 194 <u>candidate for transplantation.</u>
- 195
- 196 Immigration Status
- 197 Consistent with current OPTN policy, immigration status should not be used as a criterion in determining
- 198 transplantation candidacy. Consistent with OPTN policy, a candidate's citizenship or residency status
- 199 must not be considered when allocating deceased donor organs to candidates for transplantation.⁴¹
- 200 While immigration status may be tightly intertwined with other psychosocial and financial factors that
- 201 affect a person's candidacy for transplantation⁴² immigration status *alone* should neither determine nor

⁴⁰ OPTN, Ethics Committee, Convicted Criminals and Transplant Evaluation, accessed on September 23, 2020.

https://optn.transplant.hrsa.gov/resources/ethics/convicted-criminals-and-transplant-evaluation/

⁴¹ OPTN, *Policy 5.4.A; Nondiscrimination in Organ Allocation*, accessed on 10/02/2020.

https://optn.transplant.hrsa.gov/media/1200/optn_policies.pdf

⁴² Ellen Jean Hirst, "Hunger Strikers Demand Chance at Organ Transplants," chicagotribune.com, September 8, 2018, accessed on September 29, 2020. https://www.chicagotribune.com/news/ct-xpm-2013-08-06-ct-met-hunger-strike-northwestern-0806-20130806-story.html.

³⁹ Government of Western Australia, Office of the Inspector of Custodial Services, *Recidivism rates and the impact of treatment* programs. ISSN 1445-3134. September 2014. Accessed October 8, 2020. https://www.oics.wa.gov.au/wpcontent/uploads/2014/09/OICS-Recidivism-review.pdf



- 202 <u>exclude a person's candidacy for organ transplantation as these would be unduly compromise justice</u>
 203 <u>and respect for persons.</u>
- 204

205 Many noncitizens participate in the transplant system as donors.⁴³ The principle of reciprocity highlights

- 206 that it seems unjust for a system to use organs from a group of persons categorically excluded from
- 207 access. Participation as organ donors and long-term residents in the U.S. also means that undocumented
- 208 <u>immigrants are not considered "transplant tourists" under the definition of the Declaration of Istanbul.44</u>
- 209
- 210 Theories of distributive justice, including Rawls' Theory of Justice, suggests that persons, irrespective of
- 211 immigration status, can be considered members of the society by virtue of participating in complex
- 212 schemes of social cooperation (through sustained social ties, participation in community organizations,
- 213 paid and unpaid labor, taxes, etc.). Furthermore, the Difference Principle, sometimes referred to as the
- 214 <u>"maximum" principle, is also used to support granting access to transplant for persons irrespective of</u>
- 215 <u>immigration status because such persons are often vulnerable members of society, facing unique</u> 216 <u>challenges owing to language barriers</u> often lower socioesonomic status, and access to four sofety net
- 216 <u>challenges owing to language barriers, often lower socioeconomic status, and access to fewer safety net</u>
- 217 <u>resources.</u> 218
- 219 <u>Social Support</u>
- 220 Social support can refer to informal care, emotional ties, and meaningful connection to others, which
- 221 many find comforting especially during periods of vulnerability, such as transplant evaluation and
- 222 recovery.^{45,46} Transplant teams using social support criteria commonly require a potential transplant
- 223 candidate to demonstrate existing social support to assist with the wide range of post-transplant
- 224 requirements, such as transportation, medication management, and monitoring symptoms. However, at
- 225 present, there is limited evidence that social support is predictive of graft failure or graft survival.⁴⁷
- 226 Moreover, the use of social support in transplantation evaluations as a proxy for a patient's ability to
- 227 meet functional needs (e.g., self-care and transportation) introduces value judgments and biases into
- the listing decisions.⁴⁸ Likewise, using social support as a proxy for patient motivation and ability to
- 229 adhere to treatment introduces the same concerns.⁴⁹ Patients' difficulty demonstrating adequate social
- 230 support is commonly associated with other social vulnerabilities or with having non-traditional supports
- 231 (absence of a spouse, parent, sibling for example), amplifying these justice concerns. For example,
- 232 demonstrating social support may be more challenging for persons with limited English language

⁴⁷ Ladin, Keren, Daniels, Alexis, Osani, Mikala, and Bannuru, Raveendhara R. "Is Social Support Associated with Post-transplant Medication Adherence and Outcomes? A Systematic Review and Meta-Analysis." *Transplantation Reviews* 32, no. 1 (2017): 16-28.

⁴⁹ Ladin, Keren, Emerson, Joanna, Berry, Kelsey, Butt, Zeeshan, Gordon, Elisa J, Daniels, Norman, Lavelle, Tara A, and Hanto, Douglas W. "Excluding Patients from Transplant Due to Social Support: Results from a National Survey of Transplant Providers." American Journal of Transplantation 19, no. 1 (2019): 193-203.

⁴³ Wightman, Aaron, and Diekema, Douglas. "Should an Undocumented Immigrant Receive a Heart Transplant?" AMA Journal of <u>Ethics</u> 17, no. 10 (2015): 909-13.

⁴⁴ Summit, Steering Committee. "Organ Trafficking and Transplant Tourism and Commercialism: The Declaration of Istanbul." The Lancet (British Edition) 372, no. 9632 (2008): 5-6.

⁴⁵ Barrera, Manuel. "Distinctions between Social Support Concepts, Measures, and Models." *American Journal of Community Psychology* 14, no. 4 (1986): 413-45.

⁴⁶ Gottlieb, Benjamin H, and Bergen, Anne E. "Social Support Concepts and Measures." *Journal of Psychosomatic Research* 69, no. 5 (2010): 511-20.

⁴⁸ Ladin, Keren, Emerson, Joanna, Berry, Kelsey, Butt, Zeeshan, Gordon, Elisa J, Daniels, Norman, Lavelle, Tara A, and Hanto, Douglas W. "Excluding Patients from Transplant Due to Social Support: Results from a National Survey of Transplant Providers." American Journal of Transplantation 19, no. 1 (2019): 193-203.

- 233 proficiency and those who do not have flexible employment schedules. As such, use of social support to
- 234 determine transplant eligibility may exacerbate socioeconomic, racial, ethnic, and gender disparities.⁵⁰
- 235
- 236 <u>The OPTN affirms that access to life-saving and/or life-enriching care should not be contingent upon</u>
- 237 <u>demonstrating social support or relationships. Patients' ability and willingness to meet vital post-</u>
- 238 operative demands (e.g. transportation, medication sorting, etc.) should be assessed with interventions
- aimed at ensuring equitable access to all candidates who may benefit from transplant.
- 240
- 241 <u>Summary/Conclusion</u>
- 242 <u>Transplant centers are encouraged to develop their own guidelines for potential transplant candidate</u>
- 243 evaluations. Listing guidelines used by transplant programs should be applied without bias. Use of non-
- 244 medical criteria continues to raise ethical concerns insofar as they commonly: (1) lack clear standards
- 245 and thresholds; (2) are inconsistently applied; (3) are susceptible to stereotyping and instrumental value
- 246 judgments; (4) are not transparent to patients; and (5) are not consistently supported by evidence. As
- 247 such, transplant evaluations should not exclusively rely on non-medical criteria.

⁵⁰ Browne, Teri. "The Relationship between Social Networks and Pathways to Kidney Transplant Parity: Evidence from Black Americans in Chicago." *Social Science & Medicine (1982)* 73, no. 5 (2011): 663-67.