Policy Title:	Patient Selection Criteria for Kidney Transplantation					
Location:	GWUH	Department:	Transplant Institute			
Policy Number:		Review Date:	September 26, 2020			
Original Effective Date:	April 14, 2014	Current Effective Date:	September 26, 2017			

- I. <u>Scope</u> Transplant Institute
- **II.** Purpose The purpose of this policy is to provide team members with guidelines for selecting patients for whom transplantation will provide the most optimal benefit.
- **III.** <u>Definitions</u> A Kidney Transplant candidate is an individual with end stage kidney disease requiring dialysis or in a predialysis state of health who meets the criteria of this team to be listed for a deceased donor or living donor kidney.
- **IV.** Policy It is the policy of George Washington University to determine eligibility for kidney transplantation based on selection criteria that evaluates risks and benefits of the transplant procedure on an individual basis and ensures fair and nondiscriminatory decisions by the transplant team.
- V. <u>Procedures</u> Patients are evaluated through the comprehensive review of medical evaluation, psychosocial assessments and testing. A multidisciplinary team of transplant professionals meets to review outcomes of these assessments and test results. Decisions to accept or exclude an individual for transplantation are based on the team's determination of the most optimal outcome and least risk for the patient. Decisions are documented in the patient's medical record.

Indications for kidney transplantation:

- A patient with Chronic Kidney Disease (CKD) who has a Glomerular Filtration Rate (GFR) less than or equal to 25 ml/min.
- Patients on dialysis
- Chronic irreversible kidney disease that has not responded to other medical or surgical treatments but the patient is not vet on dialysis
- History of adherence with healthcare recommendations
- BMI < 40
- Social support system willing to assist patient as needed in the post-operative phases of transplantation.
- Not currently smoking, using recreational drugs or abusing alcohol
- Free of active or untreated infection or malignancy
- Psychologically stable as determined by psychosocial assessments
- No severe heart disease or other blood vessel disease
- Frailty score of 0-2
- No current pharmaceutical issues that would preclude the candidate from transplant
- · Have adequate insurance to cover transplant surgery, post-transplant care and medication needed after transplant

Absolute contraindications to kidney transplantation:

- Active, untreated infection
- Advanced chronic lung disease
- Advanced liver disease where the patient is not a candidate for a simultaneous liver-kidney transplant
- · Advanced heart failure where the patient is not a candidate for a simultaneous heart-kidney transplant
- Uncontrolled HIV infection
- Active and unstable psychiatric illness
- Active malignancy
- Nonexistent social support system
- Active illicit substance abuse
- Active alcohol dependence
- Active psychotic symptoms that may impair adherence with transplantation
- Dementia
- History of continual non adherence with treatment
- History of recidivism of substance abuse after previous organ transplant
- Marijuana may be an absolute contraindication if the Patient Selection Committee determines that there are existing comorbidities or psychosocial concerns for a patient who tests positive for marijuana. For more details, see GW Transplant Institute's "Patient Marijuana Use" policy.
- Frailty score of 5

• Inadequate insurance to cover transplant and or medications

Relative contraindications to kidney transplantation:

- Frailty testing score of 3-4 (frail)
- Low left ventricular ejection fraction (LVEF) <35-40%
- Active nicotine abuse
- A history of multiple suicide attempts
- Marijuana may be a relative contraindication if the Patient Selection Committee determines that there is an absence of comorbidities or psychosocial concerns for a patient who tests positive for marijuana. For more details, see GW Transplant Institute's "Patient Marijuana Use" policy.

Other potential contraindications to transplantation:

Cardiac disease

- Advanced cardiomyopathy disease, coronary artery disease (CAD)
- Peripheral vascular disease (PVD)
- Congestive heart failure (CHF) optimally managed and leaves the patient in *NYHA class III or IV
- Reduced exercise capacity (VO2 max. < 10 ml/kg/min)
- Malignant ventricular dysrhythmias refractory to treatment

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Candidates considered a high risk potential for cardiac disease (1)

- Diabetics
- History of smoking
- · Prior cardiac disease
- On dialysis > 1 year
- Hyperlipidemia
- Age > 60

Nutritional problems

- · Severe malnutrition or cachexia
- Morbid obesity (BMI>40)
- Severe unexplained weight loss

GI disturbances

- Active peptic ulcer disease
- Active diverticular disease
- Irreversible hepatic dysfunction
- Symptomatic cholelithiasis
- Pancreatitis

Cerebrovascular disease

- Cerebrovascular accident (CVA) with severe neurological deficit
- Severe neuropathy, or myopathy with poor prognosis for rehabilitation

Pulmonary disease

- Significant pulmonary insufficiency (FEV1<1.2 liters)
- Mild to moderate pulmonary hypertension (pulmonary artery systolic pressure >45 mmHg)
 - o Testing by ECHO following dialysis to ensure a dry weight

Infections

- Hepatitis B surface antigen positive with evidence of active or severe hepatic disease
- Hepatitis C with biopsy proven histologic evidence of severe hepatic disease
- HIV viral load and CD4 <200 and non-compliance with HAART medications

Team Decision

If a patient is deferred and requires additional testing, the patient is notified in writing of the tests required to make a final decision.

- Criterion used to select each candidate is documented in the patient's chart.
- Each patient is notified in writing of the results of the team's decision with the date the decision was made.

• The patient's referring physician and dialysis center are also notified of the team decision.

VI. References:

- 1. Lentine K et al. Cardiac disease evaluation and management among kidney and liver transplantation candidates. Circulation 2012; 126: 617-663.
- 2. Collins BH. Renal Transplantation. October 2009. e-medicine. http://emedicine.medscape.com/article/430128-overview Accessed April 30, 2014
- 3. CMS Interpretive Guidelines X051 Patient and living donor selection
- 4. Makary MA et al. Frailty as a predictor of surgical outcomes in older patients. Journal of the American College of Surgery 2010; 210: 901-908.

Approved			
J. Keith Melancon MD Chief, Transplant Surgery	Date	Muralidharan Jagadeesan, MD Medical Director, Kidney Transpla	Date ant Institute

The George Washington University Transplant Institute Patient Selection Meeting

Section 1: Patient Information										
Patient Name: DOB: Date:					-					
Primary Diagnosis:	PRA:		Referring MD:							
Section 2: Selection Criteria for Potential Transplant Recipients (select all that apply)										
edical Indications: Psychosocial Indications: Final			Financia	l Indications:						
						adequate				
On dialysis Have chronic irreversible kidney disease	that havn't responded to other treatments					to cover the t surgery, post-				
Have chronic irreversible kidney disease that hasn't responded to other treatments but is not yet on dialysis			health therapy, medication management, tra			t care and				
Have a history of adherence with healthcare recommendations						on needed after				
Have a BMI < 40 Not currently smoking, using recreational drugs or abusing alcohol		Have a reliable social support system to provide support both before and after			transplan	į.				
Free of active or untreated infection or n	nalignancy	receiving transplant								
No severe heart disease or other blood v	essel disease	SIPAT:	SIPAT Score							
Frailty Score of 0-2 No current pharmaceutical issues that w	rould preclude the candidate from transplant									
Other (specify):	raindications (select any that appl	••)	TIEDI Risi	k Adjustment	(select any	that annly)				
Active untreated infection	Inadequate social support system	y)	Previous Pano			and approxy				
Advanced chronic lung disease	Active illicit substance abuse		Symptomatic I	Peripheral Va		ease				
Advanced liver disease	Active alcohol dependence		Any previous							
Advanced heart failure Uncontrolled HIV infection	Active psychotic symptoms that may adherence with transplantation	ımpaır	If selected, provide type: Exhausted vascular Access							
Active and unstable psychiatric illness	■Dementia		Exhausted peritoneal Access							
Active malignancy	History of continual non-adherence w	rith	Ethnicity:							
Frailty Score of 5 History of recidivism of substance	treatment Inadequate insurance to cover the tran	ısplant	Functional Status (0-100%): nt If diabetes, age of diabetes onset:							
abuse after previous organ transplant	and/or meds									
Other (specify):										
	Section 4: Relative Contraindicati	ons (selec	t all that apply)							
Cerebrovascular accident (CVA) Severe neuropathy, or myopathy with	Hepatitis B surface antigen positive Hepatitis C with biopsy proven histology	aic assidanca	of hangtic	Active di		disease dysfunction				
poor prognosis for rehab	disease Symptomatic of HIV with negative viral load and CD4>200 on HAART medications				natic chole	elithiasis				
Significant pulmonary insufficiency	■HIV with negative viral load and CD43 ■ Unintentional weight loss	>200 on HA	ART medications	Active n	icotine abu	15e				
Active peptic ulcer disease Advanced cardiomyopathy disease	Frailty Score of 3 or 4			Class III		sivii>40) n or cachexia				
Severe peripheral vascular disease	■ History of multiple suicide attempts ■ Pulmonary hypertensio					ension				
Congestive heart failure	Congestive heart failure									
Other (specify):										
	Section 5: Final D	ecision								
List List after review of pending test results	Defer If "defer", provide	the propose	d follow up date:							
Continue to list active (e.g. for annual re	view)					■Deny				
Continue to list inactive (e.g. for annual Status change (e.g. inactive to active)	review) Reason for deferral:	□ Doughou	scial follow up pood	lad						
Remove from waitlist	Additional testing needed Other	■ Psychoso	ociai follow up need	ieu						
Section 6: Follow Up Plan										
No follow up peeded before listing										
No follow up needed before listing										
Section 7: Signatures										
Name: Title: Signature:										
Name:	Surgeon/Nephrologist Title:	Signat	hara-							
Tidane.	Title: Signature: Transplant Coordinator									

Revised June 2018