

## Transplant Update

Jag Gill May 8, 2020



# COVID impact on transplant patients and activities

- Suspension of national KPD program on March 15, 2020
- Suspension of LDKT nation-wide on March 18, 2020
- Modified selection of DDKT on March 18, 2020 nationwide
- >90% virtual ambulatory post transplant care
- Virtual ambulatory pre-transplant assessments continued
- Work with CBS/CST/Health Canada to develop provincial and national consensus on donation and transplantation practices during COVID
- Work with BCT to provide support and education to prevalent transplant population
- "COVID clinics" to virtually assess and triage transplant PUI
- Weekly meetings with regional reps to discuss COVID and non-COVID issues/patients



### COVID cases in transplant recipients

- 44 post transplant patients at VCH/SPH with potential COVID symptoms
  - 27 patients tested for COVID
    - 4 tested positive (2 deaths; 2 discharges)
    - 1 presumed COVID despite negative test (in hospital)
  - 6 COVID negative patients admitted to hospital (2 in ICU)
  - 1 unwitnessed death (felt to be unrelated to COVID)



### COVID Response timeline

Stage 0 Stage 1 Stage 2 Stage 3

Stage	COVID Status	Transplant activity
0	Community spread exists, growing number of active cases	LDKT suspended Selected DDKT (priority and HSP)
1	Community spread exists, stable number of active cases	Selected DDKT (priority and 1131)
2	Low number of active cases and low community spread	
3	Virus eradicated/vaccine/effective treatment	

### Guiding principles

- Kidney transplantation is life prolonging benefits must outweigh current state
- Risks and benefits considered in the context COVID community spread
- Rapid availability (i.e. <24hours) COVID-19 PCR testing</li>
- Allocation Policy Suspension/Modification may be required
- "COVID-19 free" pathway of Hospital-based In-Patient and Out-patient care is required
- Virtual care will be required post transplant
- System and hospital capacity for required beds, staff, and universal Personal Protective Equipment (PPE) is required
- Monitoring of processes and unintended consequences is required



### Deceased Organ Donation

Stage 0	<ul> <li>NDD SCD (Rationale: minimize risk of DGF)</li> <li>DCD SCD considered on a case by case basis</li> <li>No AKI (Rationale: minimize risk of DGF)</li> <li>No high risk travel history (travel outside Canada in last 14 days as an absolute exclusion and travel outside of BC as a relative contraindication)</li> <li>No history of symptoms suggestive of COVID</li> <li>No direct contact with a known or suspected COVID case</li> <li>No known COVID diagnosis in the last 28 days</li> <li>No risk of nosocomial transmission from unit the donor was located in</li> <li>2 negative COVID swabs (lower respiratory tract specimen necessary – either deep ETT suction or BAL)</li> <li>No findings suggestive of COVID on CT chest</li> </ul>
Stage 1	As in Stage 0
Stage 2	As in Stage 0
	Consider DCD and ECD
Stage 3	All donors considered

#### **Rationale**

Avoid donor derived COVID

Minimize exposure to HD units

### Estimating Recipient Risk

	1	Medical and Surgical	_	Psychosocial
	1.	Age < 65	1.	Established low risk plan** for
	2.	Non-diabetic ESRD	١.	transportation to hospital
	3.	Diabetic ESRD if low risk CAD and	2.	Does not live in congregate setting
	3.		3.	Established social supports
	4.	testing up to date	-	• • • • • • • • • • • • • • • • • • • •
	1	No CAD/PVD/CVA disease	4.	Stable housing
	5.	No chronic pulmonary disease	5.	No active substance use
1 = Low Risk	6.	Primary transplant	6.	No active mental health issues
	7.	No active health issues within 1 yr	7.	Compliant and motivated
	8.	Robust exertional capacity (i.e. no		
		functional restriction)		
	9.	No history of recurrent infection		
	10.	BMI < 35		
	11.	Not on anticoagulation (ASA ok) or high		
		thrombosis risk		
	12.	No DSA		
	13.	No requirement for lymphocyte		
		depletion or complement blockade		
2 = Int Risk	Ch	aracteristics between low and high risk		Characteristics between low and high risk
	1.	Significant CAD/PVD/CVA history or	1.	Unstable living situation/housing
		event within 1 yr	2.	No established plan for transportation
	2.	Frail (need assistance with ADLs/IADLs)	3.	Substance abuse history with recent
	3.	Poor exertional capacity (limited to		use, no rehab
3 = High Risk		walking < 2 blocks or walking indoors)	4.	Unstable Mental Health in past year, or
	4.	Poor cognition/memory - risk of		ongoing
		delirium	5.	Non-adherence concerns
	5.	Poorly controlled chronic conditions		
		(i.e DM, COPD)		
	6.	Unresolved active medical issues	l	
	7.	Recurrent hospitalizations within 1 yr	l	
	8.	Morbid obesity (BMI > 40)	l	
	9.	Complicated abdomen/vasculature for	l	
		graft implantation	l	
	10.	Bridging anticoagulation required	l	
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#### **Key principle:**

Stratify patients to easily assess risk for post-op complications and prolonged hospitalizations



### Recipient candidacy and organ allocation

Stage 0	Medically urgent and highly sensitized candidates with a cPRA $\geq$ 99% will considered for transplantation. All other candidates considered on a case by case basis.
Stage 1	Candidates with an RCS = 1 will be considered for transplantation. (RCS>1 considered on a case by case basis)
Stage 2	Candidates with an RCS 1 and 2 will be considered for transplantation. (RCS >2 considered on a case by case basis)
Stage 3	All candidates will be considered for transplantation.

### COVID Response timeline

Stage 0 Stage 1 Stage 2 Stage 3

Stage	COVID Status	Transplant activity
0	Community spread exists, growing number of	LDKT suspended
	active cases	Selected DDKT (priority and HSP)
1	Community spread exists, stable number of	Selected LDKT
	active cases	Selected DDKT (priority, HSP, RCS =1)
2	Low number of active cases and low	Selected LDKT
	community spread	Selected DDKT (priority, HSP, RCS =1,2)
3	Virus eradicated/vaccine/effective treatment	All LDKT
		All DDKT

### Process Changes

- Living donors and recipients self isolate 14 days prior to OR
- COVID swab prior to OR
- Shortened hospital stay when possible
- Enhanced virtual follow-up

