

Target Sirolimus Blood Concentrations for Transplant Recipients

Renal transplants

Time Post Transplant (Months)	Sirolimus Trough Concentration (ng/mL)* (When sirolimus is used with mycophenolic acid and steroids)	Sirolimus Trough Concentration (ng/mL)* (When sirolimus is used as a single agent +/- steroids)
ADULT Kidney Transplants (May 2017)		
Greater than 3 months	5 to 10	8 to 10
PEDIATRIC Kidney Transplants (May 2017)		
Greater than 3 months	4 to 6	Not used as a single agent at B.C.'s Children's Hospital

*Tandem Mass Spectrometry Assay

Liver, Lung and Heart Transplants

Time Post Transplant (Months)	Sirolimus Trough Concentration (ng/mL)* (When sirolimus is used with tacrolimus or cyclosporine +/- mycophenolic acid and steroids)	Sirolimus Trough Concentration (ng/mL)* (When sirolimus is used as a single agent +/- steroids)
ADULT Liver Transplants (May 2021)		
1 to 3 months	8 to 12	10 to 15
Greater than 3 months	5 to 10	8 to 12
ADULT Lung Transplants (Dec 2020)		
Contact lung transplant clinic for patient specific targets		
ADULT Heart Transplants (Nov 2014)		
All	4 to 8	8 to 12

*Tandem Mass Spectrometry Assay

- (1) BC Transplant. (2021, May 13). MEDICATION GUIDELINES FOR SOLID ORGAN TRANSPLANTS. BC Transplant. (<http://www.transplant.bc.ca/Documents/Health%20Professionals/Clinical%20guidelines/Clinical%20Guidelines%20for%20Transplant%20Medications.pdf>)

