

# UCMC Liver Transplant - Infectious Prophylaxis Guidelines

	Patient Population		Medication	Dosing regimen and Length of Therapy	
Peri-operative	All non penicillin allergic		Ceftriaxone AND Ampicillin	Pre-op: ceftriaxone 2g IV AND ampicillin 2g IV Post-op: ceftriaxone 2g IV x 1 dose 24h after pre-op dose AND ampicillin 1g IV q6h (or per renal function) x 48 hours	
	Penicillin allergic		Vancomycin AND Ciprofloxacin	Pre-op vancomycin: 20mg/kg on call to OR Pre-op ciprofloxacin: ≤ 80kg 400mg IV ; > 80kg: 600mg IV on call to OR Post-op: vancomycin 15mg/kg IV x 1 dose and ciprofloxacin 400mg IV x 1 dose 12 hours after pre-op dose and then as per renal function for 48 hours total	
Fungal Initiate POD 1	HIGH Risk <i>Targeted prophylaxis should be given to recipients meeting any of the listed criteria</i>	1) Renal replacement (RRT) <i>PRIOR</i> to OLT 2) RRT within 30 days <i>POST</i> OLT 3) Roux-en-y performed 4) Intraop use of > 10 units of PRBC 5) Reoperation 6) Biliary leak within 90 days of OLT 7) Re-transplantation 8) Recipient of living donor	Fluconazole <sup>1</sup>	200mg PO daily	1 month
PJP Initiate POD 1-2	All		Bactrim SS <sup>2</sup>	1 tablet PO daily	<i>Duration Varies</i> 3 months (Standard + Basiix) 6 months (if any Thymo) Lifelong (HIV+ recipients)
	Sulfa allergic		Dapsone <sup>3</sup> Pentamidine <sup>4</sup> Atovaquone	100mg PO daily 300mg per nebulizer once monthly 1500 mg PO daily	
Viral Initiate POD 1-2 <i>If concern for renal function or marrow suppression adjust dose as described below</i>	HIGH Risk	CMV IgG Donor + / Recipient -	Valganciclovir <sup>5-9</sup>	900mg PO daily <sup>6</sup>	6 months (monitoring <sup>7,8</sup> )
	INTERMEDIATE RISK	CMV IgG Donor + / Recipient + CMV IgG Donor - / Recipient +	Valganciclovir <sup>5-9</sup>	450 mg PO daily <sup>6</sup>	3 months (monitoring <sup>7,8</sup> )
	LOW RISK	CMV IgG Donor - / Recipient -	Acyclovir <sup>5</sup>	800 mg PO twice daily <sup>6</sup>	1 month (monitoring <sup>7</sup> )

<sup>1</sup>**Fluconazole dose adjustments:** CrCl < 50 = 100 mg PO daily; CVVH = 400 mg once daily

HD = 200mg PO 3x week; administer after each dialysis session on dialysis days only

<sup>2</sup>**Bactrim SS (trimethoprim-sulfamethoxazole) dose adjustments**

Neutropenia: HOLD if ANC<500 cells/ μL and resume when ANC >1000 cells/ μL

CrCl < 30 = 1 tablet PO Mon, Wed, Fri; CVVH = no dose adjustment

HD = 1 tablet SS PO 3x weekly, after each dialysis (dialysis days only)

<sup>3</sup>**Dapsone:** do not check G6PD routinely; only in those of Mediterranean decent

<sup>4</sup>**Pentamidine:** premedicate with albuterol 2.5 mg per nebulizer

<sup>5</sup>**Anti-viral dose adjustments:** ONLY for renal dysfunction (refer to table for dose adjustments)

*IF PERSISTENT NEUTROPENIA:* hold & monitor CMV RT PCR Quant weekly.

*LETHERMOVIR:* 2<sup>nd</sup> line for persistent neutropenia (pending insurance and nonformulary approval). Consult Txp ID. Use may require (a) initiation of acyclovir for HSV prophylaxis if ≤ POD #30 or undergoing rejection treatment and (b) CMV PCR monitoring every 2 weeks.

<sup>6</sup>**IF unable to take PO valganciclovir convert to ganciclovir 5mg/kg day (adjust for renal function)**

<sup>7</sup>**If antiviral held or delayed: CMV PCR Quant weekly q Mon until resumed or initiated**

<sup>8</sup>**When valganciclovir therapy is completed: CMV RT PCR Quant every 2 weeks x 3. If CMV viremia develops change CMV PCR monitoring to weekly (refer to CMV treatment guidelines)**

<sup>5</sup>**Anti-viral prophylactic therapy renal dose adjustments**

CrCl (mL/min)	Valganciclovir PO	Valganciclovir PO	Ganciclovir IV	Acyclovir PO
>70	900 mg daily	450 mg daily	5 mg/kg q24 hours	800 mg 2x day
60-69	900 mg daily	450 mg daily	2.5 mg/kg q24 hours	800 mg 2x day
50-59	450 mg daily		2.5 mg/kg q24 hours	800 mg 2x day
40-49	450 mg daily		1.25 mg/kg q24 hours	800 mg 2x day
25-39	450 mg M-W-F		1.25 mg/kg q24 hours	800 mg 2x day
10-24	450 mg twice weekly		0.625 mg/kg q24 hours	400 mg 2x day
<10 or iHD	450 twice weekly after iHD		0.625 mg/kg 3x/week after iHD	400 mg 2x day after HD
PD	450 mg twice weekly		0.625 mg/kg 3x/week	400 mg 2x day
CVVH	450 mg q48 hours		1.25 mg/kg q24 hours	800 mg 2x day
CVVHD/HDF	450 mg daily		2.5 mg/kg q24 hours	800 mg 2x day

