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## Mycophenolic Acid (MPA) / Mycophenolic Acid Glucuronide (MPAG)

PATIENT INFORMATION	ORDER INFORMATION	SAMPLE INFORMATION	LAB INFORMATION
<b>Patient:</b> <b>Patient Date of Birth:</b> <b>Patient Sex:</b> <b>MRN/Patient ID:</b> NA <b>Patient Email:</b> NA	<b>Accession No:</b> <b>Reported On:</b> <b>Physician:</b> <b>Practice:</b>  <b>Address:</b>	<b>Date of Receipt:</b> <b>Time of Receipt:</b> <b>Specimen Type(s):</b> Serum	<b>Phone:</b> 1-972-492-0419 <b>Fax:</b> 1-972-243-7759 <b>Email:</b> info@realtimelab.com <b>CLIA #:</b> 45D1051736 <b>CAP #:</b> 7210193 <b>Tax ID #:</b> 0669342

**Procedure Type:** LC-MS/MS

**Clinical Info:**

MPA Dosage Amount	Dosage Time	Surgery Date	Type of Mycophenolate	Co-Medications	Other Drugs
n/a	XX/XX/XXXX 09:50	XX/XX/XXXX	Cellcept (mycophenolate mofetil)	Tacrolimus	

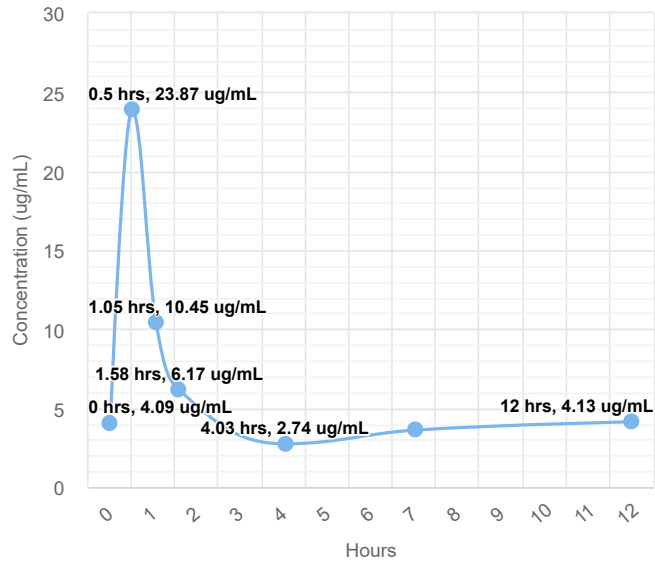
**MPA Results:**

Sample No.	Type	Time of Sample	Collection Date	Collection Time	Target	Result
XXXXXX-A	Serum	Sample 1 (Pre-dose)	XX/XX/XXXX	09:45:00	Mycophenolic Acid	4.09ug/mL
XXXXXX-B	Serum	Sample 2 (30 min)	XX/XX/XXXX	10:15:00	Mycophenolic Acid	23.87ug/mL
XXXXXX-C	Serum	Sample 3 (1 hr)	XX/XX/XXXX	10:48:00	Mycophenolic Acid	10.45ug/mL
XXXXXX-D	Serum	Sample 4 (2 hr)	XX/XX/XXXX	11:20:00	Mycophenolic Acid	6.17ug/mL
XXXXXX-E	Serum	Sample 5 (3-4 hr)	XX/XX/XXXX	13:47:00	Mycophenolic Acid	2.74ug/mL
XXXXXX-F	Serum	Sample 6 (5-6 hr)	XX/XX/XXXX	16:47:00	Mycophenolic Acid	3.61ug/mL
XXXXXX-G	Serum	Sample 7 (8 hr)	XX/XX/XXXX	21:45:00	Mycophenolic Acid	4.13ug/mL

**MPAG Results:**

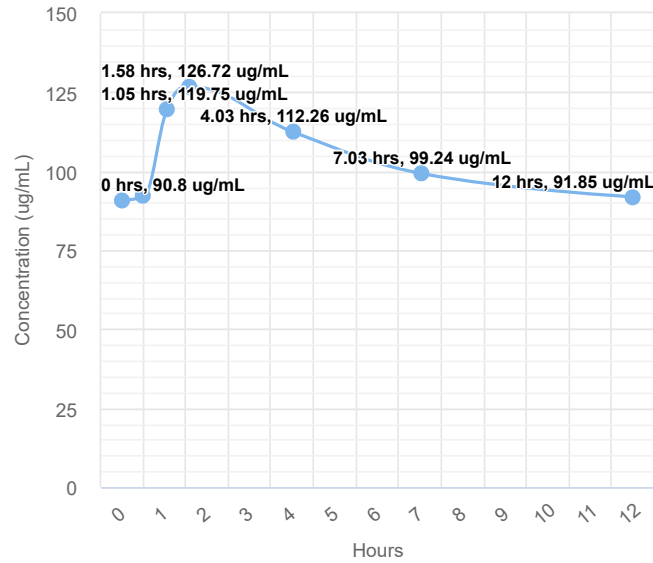
Sample No.	Type	Time of Sample	Collection Date	Collection Time	Target	Result
XXXXXX-A	Serum	Sample 1 (Pre-dose)	XX/XX/XXXX	09:45:00	Mycophenolic Acid Glucuronide	90.80ug/mL
XXXXXX-B	Serum	Sample 2 (30 min)	XX/XX/XXXX	10:15:00	Mycophenolic Acid Glucuronide	92.03ug/mL
XXXXXX-C	Serum	Sample 3 (1 hr)	XX/XX/XXXX	10:48:00	Mycophenolic Acid Glucuronide	119.75ug/mL
XXXXXX-D	Serum	Sample 4 (2 hr)	XX/XX/XXXX	11:20:00	Mycophenolic Acid Glucuronide	126.72ug/mL
XXXXXX-E	Serum	Sample 5 (3-4 hr)	XX/XX/XXXX	13:47:00	Mycophenolic Acid Glucuronide	112.26ug/mL
XXXXXX-F	Serum	Sample 6 (5-6 hr)	XX/XX/XXXX	16:47:00	Mycophenolic Acid Glucuronide	99.24ug/mL
XXXXXX-G	Serum	Sample 7 (8 hr)	XX/XX/XXXX	21:45:00	Mycophenolic Acid Glucuronide	91.85ug/mL

### MYCOPHENOLIC ACID



AUC<sub>12</sub> = 35.75

### MYCOPHENOLIC ACID GLUCURONIDE



AUC<sub>12</sub> = 703.03

**Interpretation:**

Target	Time of Sample	Reference Range
Mycophenolic Acid	t = 12 hr (Steady State)	1 - 3.5 ug/mL
Mycophenolic Acid	Pharmacokinetic Analysis	AUC <sub>12</sub> = 30 - 60 mg hr/L
Mycophenolic Acid Glucuronide	t = 12 hr (Steady State)	35-100 ug/mL

When mycophenolate mofetil is given in combination with cyclosporin A, the concentration of MPA is approximately 30-40% lower than when given alone or with tacrolimus or sirolimus.

High dosages of corticosteroids may induce expression of the uridine diphosphate glucuronosyltransferase (UGT), reducing the exposure to MPA. Other co-medications can interfere with the absorption, enterohepatic recycling, and metabolism of mycophenolate.

Director or Designee Signature \_\_\_\_\_

Tests such as this should be used only in conjunction with other medically established diagnostic elements (e.g., symptoms, history, clinical impressions, results from other tests, etc). Physicians should use all the information available to them to diagnose and determine appropriate treatment for their patients.

**Disclaimer:** This test was developed and its performance characteristics determined by RealTime Lab. It has not been cleared or approved by the U.S. Food and Drug Administration. The FDA has determined that such clearance or approval is not necessary. This laboratory is certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA-88) as qualified to perform high complexity clinical laboratory testing.