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PATIENT REPORT

500 Chipeta Way, Salt Lake City, Utah 84108-1221

phone: 801-583-2787, toll free: 800-522-2787

Jonathan R. Genzen, MD, PhD, Chief Medical Officer

Patient Age/Sex: 8 hours Unknown

Specimen Collected: 07-Nov-22 08:16

CMV Drug Resistance by NGS, 4 Received: 07-Nov-22 08:16 Report/Verified: 07-Nov-22 13:50

Drugs

Result Reference Interval Procedure Units

See Note fl il CMV Drug Resistance by NGS,4

Drugs

Result Footnote

CMV Drug Resistance by NGS, 4 Drugs f1:

> Ganciclovir, GCV Sensitive Foscarnet, FOS Sensitive Cidofovir,CDV Sensitive Maribavir, MBV Sensitive

UL97 drug resistance mutations identified: None

UL97 additional mutations identified: T75A

UL97 uncalled mutation sites:None

UL54 drug resistance mutations identified: None

UL54 additional mutations identified:A1108T

UL54 uncalled mutation sites:None

UL27 drug resistance mutations identified: None

UL27 additional mutations identified:L12P, R90K, A519T, V520A

UL27 uncalled mutation sites:None

CMVResistanceCaller software version: 2.0.0.1

CMV_resistance_mutations_20220321.db

Test Information

CMV Drug Resistance by NGS, 4 Drugs

INTERPRETIVE INFORMATION: CMV Drug Resistance by NGS,

4 Drugs

This assay assesses resistance to ganciclovir, foscarnet, cidofovir, and maribavir. Resistance-associated mutations in the UL97, UL54, and UL27 genes are sequenced using next generation sequencing. Drug resistance is assigned using an ARUP-developed database of published resistance mutations. For a list of resistance mutations refer to https://ltd.aruplab.com/Tests/Pub/3004508.

This test detects populations down to 10% of the total population which may account for resistance interpretation differences between methods. Some insertions or deletions may be difficult to detect using this software.

Result interpretations are as follows:

- -Sensitive indicates no evidence of drug resistance compared with a wild-type virus.
- -Possible resistance indicates mutations were detected with borderline-level drug resistance or conflicting resistance status reported in the literature.
- -Resistant indicates evidence of drug resistance compared with a wild-type virus.
- -Not determined indicates incomplete sequence coverage across a given gene or genes.

*=Abnormal, #=Corrected, C=Critical, f=Result Footnote, H-High, i-Test Information, L-Low, t-Interpretive Text, @=Performing lab

Unless otherwise indicated, testing performed at:

ARUP Laboratories

500 Chipeta Way, Salt Lake City, UT 84108

Laboratory Director: Jonathan R. Genzen, MD, PhD

ARUP Accession: 22-311-100969

Report Request ID: 16971654

Printed: 08-Nov-22 14:46

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Test Information

- CMV Drug Resistance by NGS, 4 Drugs
 - -Additional mutations include variants that have not been associated with drug
 - -Uncalled mutation sites include drug resistance mutation positions with an inadequate number of sequencing reads.
 - -Inadequate sequence coverage indicates a low number of sequence reads at a given drug resistance site.

Drugs associated with each gene are as follows:

UL97: ganciclovir, maribavir

UL54: ganciclovir, foscarnet, cidofovir

UL27: maribavir

This test was developed, and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the U.S. Food and Drug Administration. This test was performed in a CLIA-certified laboratory and is intended for clinical purposes.

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