

| | | |
|----------------|--|--|
| Mandeep Dhiman | DOB: _____ Age: 29Y Gender: M PID: QD1826489 Physician: _____ | KOS Diagnostics lab C/O Dr Vinay Chopra 5349/1, Nicholson Road, Ambala cantt Ambala Haryana Phone: 01712643898 |
|----------------|--|--|

| Order# | Collected Date/Time | Reported Date/Time | Status |
|---------|---------------------|---------------------|--------------|
| 2077718 | 08/02/2017 02:50 PM | 15/02/2017 06:12 PM | Final Report |

Order Comments

| Test | Within Range | Out of Range | Biological Ref Range | Units |
|---|----------------------|--------------|----------------------|-------|
| TPMT (THIOPURINE METHYL TRANSFERASE) GENOTYPING | See Attached Report. | | | |

end of report for Mandeep Dhiman, Order No #2077718, Acc No # 5728283



Dr Anurag Bansal M.D., Associate Director - Medical

Date and Time of Order Received in the Lab: 09/02/2017 01:01 PM

H - High, L - Low, VH - Very High, VL - Very Low, A - Clinically Abnormal, PA - Panic Abnormal

CONDITIONS OF LABORATORY TESTING AND REPORTING

Quest Diagnostics, Gurgaon, Haryana, India

- Laboratory results should be used with other clinical information to determine a final diagnosis.
- In case of unexpected test results please contact the laboratory. We will investigate and repeat analysis if possible.
- The medical report must be viewed and reproduced as a whole.
- This medical report is not intended for medico-legal purposes.
- The medical report is to be interpreted and used by medical personnel only
- The results reported herein are as tested by Quest Diagnostics, Gurgaon, unless remarked upon otherwise.
- Assays are performed and reported in accordance with the stated schedule.
- There may be circumstances beyond our control that delay results, e.g., invalid assay run.
- The results of a laboratory test are dependant on the quality of the sample as well as the assay procedure.
- A requested test may not be carried out if:
 - Sample is insufficient or inappropriate.
 - Sample quality is unsatisfactory.
 - Request for testing is withdrawn by the ordering doctor or patient.
 - There is discord between the labelling of the sample container and the name on the test requisition.
- For any query contact client services (telephone number): 1800 180 5227 (toll free)

| Mandeep Dhiman | | DOB: Age: 29Y Gender: M PID: QD1826489 Physician: | KOS Diagnostics lab C/O Dr Vinay Chopra 5349/1, Nicholson Road, Ambala cantt Ambala Haryana Phone: 01712643898 |
|----------------|---------------------|--|--|
| Order# | Collected Date/Time | Reported Date/Time | Status |
| 2077718 | 08/02/2017 02:50 PM | 15/02/2017 06:12 PM | Final Report |



2077718



Gurgaon Lab: C-1/B, Clear View, Old DLF Colony, Sector-14, Gurgaon - 122 001
Tel: 0124 - 3988-505, 3001-8655
National Reference Lab: Sector-18, Block-E, Rohini, New Delhi - 110 085
Main Lab: 54, Eskay House, Hanuman Road, New Delhi - 110 001
Web: www.lalpathlabs.com

S02 - GGN-QUEST DIAGNOSTICS
GURGAON
GURGAON

(Hon'y) Brig. Dr. Arvind Lal
M.B.B.S., D.C.P.
Pathology
FMR HONORARY PHYSICIAN TO THE PRESIDENT OF INDIA



Dr. Vamshana Lal
M.D. (Path), FRCP
Chief of Pathology
SHRI RAMAN AWARDEE WINNER

| | | | |
|------------|-------------------------------|------------------|-----------------------|
| Name | : MANDEEP DHIMAN 2077718-3495 | Collected | : 9/2/2017 2:50:00PM |
| Lab No. | : 133599337 | Age: 29 Years | Gender: Male |
| A/c Status | : P | Ref By : Dr. QDI | Report Status : Final |
| | | Received | : 9/2/2017 6:59:18PM |
| | | Reported | : 15/2/2017 4:32:33PM |

| Test Name | Results | Units | Bio. Ref. Interval |
|--|--------------|-------|--------------------|
| THYROPURINE METHYL TRANSFERASE (TPMT) GENOTYPING @ # (Real Time PCR) | | | |
| TPMT*1 wild type | Not Detected | | |
| TPMT*2 G238C | Not Detected | | |
| TPMT*3A G460A and A719G | Detected | | |
| TPMT*3B G460A | Not Detected | | |
| TPMT*3C A719G | Not Detected | | |

Interpretation

| GENOTYPE | EFFECT OF POLYMORPHISM |
|----------------------|-------------------------|
| TPMT*1 wild type | Normal enzyme activity |
| TPMT*2 G238C | Reduced enzyme activity |
| TPMT*3A G460 & A719G | No enzyme activity |
| TPMT*3B G460A | Reduced enzyme activity |
| TPMT*3C A719G | Reduced enzyme activity |

Note

1. This test predicts the TPMT enzyme activity based on polymorphism at three positions 238, 460 and 719 of TPMT gene
2. Current TPMT phenotype may not be reproducible in patients who have received blood transfusions within 30-60 days of testing
3. This is an in-house developed test for Research purposes only. Results to be interpreted in context of clinical findings, and other laboratory data.

Comments

Measurement of TPMT activity is advised prior to commencing the treatment of patients with Thiopurine drugs such as Azathioprine, 6-Mercaptopurine and 6-Thioguanine. Patients with low activity (10% prevalence) or especially absent activity (0.3% prevalence) are at a heightened risk of drug-induced bone marrow toxicity due to accumulation of the unmetabolised drug. About 5% of all Thiopurine therapies will fail due to toxicity. There appears to be a great deal of variation in TPMT mutation, with ethnic differences in mutation types accounting for variable responses to these drugs.

Not in NABL scope



Page 1 of 2

If test results are alarming or unexpected, Client is advised to contact the laboratory immediately for possible remedial action.

@ Tests conducted at National Reference Lab, New Delhi, a CAP (7.171001), ISO (FS 60411) and NABL (M-0061) accredited laboratory



Quest Diagnostics India Pvt Ltd

2077718

Gurgaon Lab: C-1/B, Clear View, Old DLF Colony, Sector-14, Gurgaon - 122 001
Tel: 0124 - 3988-505; 3001-845

National Reference Lab: Sector-18, Block-E, Rohini, New Delhi - 110 085
Main Lab: 54, Eskay House, Haruman Road, New Delhi - 110 001
Web: www.lalpathlabs.com

S02 - GGN-QUEST DIAGNOSTICS
GURGAON
GURGAON

(Hon'y) Brig. Dr. Arvind Lal
M.B.B.S., D.C.P.
Pathology (M)
HONORARY PHYSICIAN TO THE PRESIDENT OF INDIA

NABL ACCREDITED
M-0058

Dr. Vandana Lal
M.D. (PATH), FICP
Chief of Pathology
SHRI RAM AWARDED WINNER

| | | | |
|------------|-------------------------------|---------------|-----------------------|
| Name | : MANDEEP DHIMAN 2077718-3495 | Collected | : 9/2/2017 2:50:00PM |
| Lab No. | : 133599337 | Received | : 9/2/2017 6:59:18PM |
| | Age: 29 Years | Reported | : 15/2/2017 4:32:33PM |
| | Gender: Male | Report Status | : Final |
| A/c Status | : P | | |
| | Ref By : Dr. QDI | | |

| Test Name | Results | Units | Bio. Ref. Interval |
|-----------|---------|-------|--------------------|
|-----------|---------|-------|--------------------|

Dr. Atul Thatai
PhD (Biotechnology)
HOD Molecular Diagnostics

-----End of report -----

