



BML511397

Laboratory Investigation Report

Name	: Mr. INAM UL HAQ MUHAMMAD NAZIR KHAN ABBASI	Ref No.	: 45507
DOB	: 03/05/1992	Sample No.	: 2501523903
Age / Gender	: 32 Y 8 M / Male	Collected	: 11/01/2025 14:26
Referred by	: CITICARE MEDICAL CENTER	Registered	: 11/01/2025 15:31
Centre	: CITICARE MEDICAL CENTER	Reported	: 11/01/2025 17:21

CLINICAL PATHOLOGY

Test	Result	Flag	Unit	Reference Range	Methodology
SEMEN ANALYSIS (ROUTINE)					
INVESTIGATION					
TIME OF COLLECTION	2:26 PM			-	
PLACE OF COLLECTION	OUTSIDE LAB			-	
ABSTINENCE (NO OF DAYS)	-		Days	-	
PHYSICAL EXAMINATION					
APPEARANCE	OPAQUE WHITE			WHITE OPAQUE	Visual
VISCOSITY	NORMAL			-	Visual
LIQUEFACTION	COMPLETE			-	Visual
LIQUEFACTION TIME	WITHIN 30 MINUTES		minutes	0 - 30	Visual
VOLUME	3		mL	>=1.4	Visual
AGGLUTINATION	GRADE 0			-	Microscopy
CHEMICAL EXAMINATION					
PH	8.0			>=7.2	Litmus paper
MICROSCOPIC EXAMINATION					
SPERM COUNT / mL	43.0		Millions/mL	>= 15	Microscopy
SPERM COUNT / Ejaculate	129.0		Million/EJAC	>= 39	Microscopy
PUS CELLS	2-4		/HPF	NIL	Microscopy
RED BLOOD CELLS	0-1		/HPF	NIL	Microscopy
EPITHELIAL CELLS	0-1		/HPF	0 - 4	Microscopy
MOTILITY					
TOTAL MOTILITY (PR+NPR)	75.0		%	>=42%	Microscopy
PROGRESSIVE (PR)	60		%	>= 30%	Microscopy
NON PROGRESSIVE (NPR)	15		%	>= 1%	Microscopy
IMMOTILE	25.0	H	%	<= 20%	Microscopy
SPERM MORPHOLOGY					
TOTAL NORMAL FORMS	15		%	>=4%	Microscopy
HEAD ABNORMALITY	45		%	NULL	Microscopy
MID-PIECE/NECK ABNORMALITY	25		%	NULL	Microscopy
TAIL ABNORMALITY	15		%		Microscopy
RESULT IMPRESSION					
CONCLUSION	-				

Dr. Adley Mark Fernandes
M.D (Pathology)
Pathologist

Dr. Vyoma V Shah
M.D (Pathology)
Clinical Pathologist


Jillian Joy Garcia
Laboratory Technologist
Printed on: 11/01/2025 17:24

This is an electronically authenticated report

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Test result pertains only to the sample tested and to be interpreted in the light of clinical history. These tests are accredited under ISO 15189:2012 unless specified by (^). Test marked with # is performed in an accredited referral laboratory.





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ADVISE/COMMENTS

Please correlate clinically.

INTERPRETATION NOTES :

1. **Azoospermia**— where ejaculated semen doesn't have any sperm.
2. **Hypospermia**- where the volume of semen is low or less than 1.5mL
3. **Oligozoospermia**- where the sperm count is low
4. **Asthenozoospermia**- where sperm motility is reduced
5. **Teratozoospermia**- where most of the sperm have abnormal morphology.
6. **Oligoasthenoteratozoospermia (OAT)**- where the count, motility and morphology are abnormal

Low or absent sperm count can be seen in orchitis, varicocele, Klinefelter syndrome, radiation treatment to the testicles and diseases that can cause shrinking (atrophy) of the testicles (such as mumps), ejaculation problems, tumors, undescended testicles, hormone imbalance. High sperm count can be seen in polyzoospermia, Hyperspermia.

* Sperm Agglutination:

Grade 0 = No agglutination.

Grade 1 = Some agglutination groups, but not higher than 10%.

Grade 2 = More than 30% of spermatozoa is forming agglutination groups

REFERENCE:

Reference values pursuant to the information published by WHO Laboratory Manual for the examination and processing of Human Semen, Sixth Edition 2021

Sample Type : Semen

End of Report

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