

PRESENTATION ON MALE INFERTILITY



CASE-I

Before Treatment:

Accurate Diagnostics Pvt. Ltd.
Gupte Hospital, 904, Bhandarkar Road
Pune Pin- 411 004
Phone No. 020-25653684/25401700 Lab 25401963

IUI RECORD

Patient ID : 13/003080
Patient Name : Yadav Rashmi Amol
Age / Sex : 29.0 1 / Female
Address : MAHARASHTRA, INDIA,

OPD No : 13-14/12486

Blood Group :

Exam Date : 01/07/2013

IUI Details

HCG : No
Catheter Entry : Easy
Indication For IUI : IUI-H
Back Flow : No

Semen Analysis

Date	01/07/2013	
Type	Pre Wash	Post Wash
Method	Swim up	
Volume	3.0ml	0.4ml
Total Count	10m/ml	6m/ml
Total Motility	20%	90%
Progressive Motility	5%	60%
Normomorphs	40%	
Round Cells	2	
Pus Cells		
Epithelial Cells		
Velocity		
Linearity	17, B	16, B

17/10/13

Total Motility - 10%
Total Count - 5 million
Progressive Motility - 2%

IUI Canceled

Adil



After Treatment:

ml NUCLEUS PATHOLOGY LABORATORY Dr. S

hadri Apartments, Rambag Colony, Paud Road, Pune - 38. Ph. : 2543 50 98, 2546 76 15. Mobile : 9922440110 • Time : 8.30 a

n Centre : • Guruganesh Commercial Complex, Guruganesh Nagar, Off Paud Road. Ph. : 9922440114 • Time : 8 a.m. to 1 p.m. &

Id. No. : **34470** Date : 31/12/2013 (200)

Name : MR AMOL YADAV #

Ref.Dr. : NARENDRA BORATE BAMS

Semen Examination

Macroscopic Examination Ref. Range.

~~~~~

|                         |              |                  |
|-------------------------|--------------|------------------|
| Sample collection       | : In the Lab |                  |
| Quantity                | : 2.0 ML     | More than 2.0 ml |
| Colour                  | : G.White    | Greyish White    |
| Viscosity               | : Viscous    | Viscous          |
| pH                      | : Alkaline   | Alkaline         |
| Self Liquification Time | : 15 mins    | Upto 30 min.     |

Microscopic Examination  
~~~~~

Sperm Count	: 13 million/ml	More than 20
-------------	------------------------	--------------

Motility		I hr	II hr	III hr
Rapid linear progressive	: 00	00	00	
Moderate linear progressive	: 20	20	10	
Non progressive	: 20	20	20	
Non motile	: 60	60	70	

Abnormal forms	: 20%	< 20 %
Pus cells	: 8 - 10/hpf	< 1 /hpf
RBCs	: Absent	Nil
Others	:	

Chemical Examination
~~~~~

Test for Fructose : Positive

*[Signature]*



After Treatment:



Id. No. : 40228

Date : 14/02/2014 (200)

Name : AMOL YADAV #

Ref.Dr. : NARENDRA BORATE BAMS

Semen Examination

Macroscopic Examination

Ref.range.

|                         |   |            |                  |
|-------------------------|---|------------|------------------|
| Sample collection       | : | In the Lab |                  |
| Quantity                | : | 3.0 ML     | More than 2.0 ml |
| Colour                  | : | G.White    | Greyish White    |
| Viscosity               | : | Viscous    | Viscous          |
| pH                      | : | Alkaline   | Alkaline         |
| Self Liquification Time | : | 15 mins    | Upto 30 min.     |

Microscopic Examination

Sperm Count : 50 million/ml More than 20

|                             |   |      |       |        |
|-----------------------------|---|------|-------|--------|
| Motility                    |   | I hr | II hr | III hr |
| Rapid linear progressive    | : | 20   | 20    | 10     |
| Moderate linear progressive | : | 30   | 30    | 30     |
| Non progressive             | : | 10   | 10    | 10     |
| Non motile                  | : | 40   | 40    | 50     |

|                |   |          |          |
|----------------|---|----------|----------|
| Abnormal forms | : | <15%     | < 20 %   |
| Pus cells      | : | < 1 /hpf | < 1 /hpf |
| RBCs           | : | Absent   | Nil      |
| Others         | : |          |          |

Chemical Examination

Test for Fructose : Positive



# CASE 2 BEFORE TREATMENT

**PATANKAR FERTILITY SOLUTIONS PVT.LTD.**  
GENESIS FERTILITY IVF, & ICSI CENTRE  
OPP SARAS BAUG, PUNE -411002  
TEL: 4444308, 4440787

NAME- Mr. Yogesh Patil                      Age: 28 yrs                      DATE:-09/02/11  
REG NO:-G- -P-0035-08-10

## SEMEN QUALITATIVE ANALYSIS REPORT

Time of collection :- 9:35 am  
Method of collection :- Masturbation  
Abstinence :- 5 days

| <i>Physical Examination</i> | <i>Patients value</i> | <i>Normal value</i> |
|-----------------------------|-----------------------|---------------------|
| Quantity (Volume) :-        | 300 µl                | 2-5 ml.             |
| Appearance :-               | Grey                  | Gray-White Yellow.  |
| Liquefaction :-             | Within 10 min         | within 45 min       |
| Viscosity :-                | Normal                |                     |

|                                         |              |                |
|-----------------------------------------|--------------|----------------|
| <i>Chemical Examination</i> Fructose :- | Not possible | <i>present</i> |
| PH :                                    | 6.0          | 7.2-7.8        |

### *Microscopic Examination*

|                                      |         |                      |
|--------------------------------------|---------|----------------------|
| Sperm count                          | : -Nil  | 20-250 million/ml    |
| <u>Sperm motility(%)</u>             | : -Nil  |                      |
| Rapid Linear Progressive (Gr IV)     | : - Nil |                      |
| Sluggish Linear Progressive (Gr III) | : - Nil |                      |
| (Gr IV) + (Gr III)                   | : - Nil | <i>More than 50%</i> |
| Non-Progressive (Gr II)              | : -Nil  |                      |
| Non-motile (Gr I)                    | : -Nil  |                      |

### *Sperm Morphology (%)*

|                   |     |                      |
|-------------------|-----|----------------------|
| Normal forms :-   | Nil | <i>Less than 50%</i> |
| Abnormal forms :- | Nil |                      |

|                        |              |                           |
|------------------------|--------------|---------------------------|
| Immature Germ cells :- | 10 - 15/ hpf | <i>&lt; 1 million/ml.</i> |
| Leucocytes :-          | 3 - 4 / hpf  | <i>Upto 1 million /ml</i> |
| RBC 's :-              | Nil          |                           |
| Agglutination :-       | Nil          |                           |
| Aggregation :-         | Nil          |                           |
| L: D // Nil            |              |                           |

**Comments : Semen Qualitative Analysis shows "Azoospermia".**

*Bacterial contamination (+)*

  
(Biologist)



**PATANKAR FERTILITY SOLUTIONS PVT.LTD.**  
GENESIS FERTILITY IVF, & ICSI CENTRE  
OPP SARAS BAUG, PUNE -411002  
TEL: 4444308, 4440787

NAME- Mr. Yogesh Patil                      Age: 28 yrs                      DATE:-21/03/2011  
REG NO:-G- P-0035-08-10

**SEMEN QUALITATIVE ANALYSIS REPORT**

Time of collection :- 7:00 pm  
Method of collection :- Masturbation  
Abstinence :- 4 days

| <i>Physical Examination</i> | <i>Patients value</i> | <i>Normal value</i> |
|-----------------------------|-----------------------|---------------------|
| Quantity (Volume) :-        | 0.25 ml               | 2-5 ml.             |
| Appearance :-               | Grey                  | Gray-White Yellow.  |
| Liquefaction :-             | Within 10 min         | within 45 min       |
| Viscosity :-                | Normal                |                     |

|                                         |        |                |
|-----------------------------------------|--------|----------------|
| <i>Chemical Examination</i> Fructose :- | Absent | <i>present</i> |
| PH :                                    | 6.0    | 7.2-7.8        |

|                                |         |                   |
|--------------------------------|---------|-------------------|
| <i>Microscopic Examination</i> |         |                   |
| Sperm count                    | : -Nil  | 20-250 million/ml |
| Sperm motility(%)              | : - Nil |                   |

|                                      |         |               |
|--------------------------------------|---------|---------------|
| Rapid Linear Progressive (Gr IV)     | : - Nil |               |
| Sluggish Linear Progressive (Gr III) | : - Nil |               |
| (Gr IV) + (Gr III)                   | : - Nil | More than 50% |
| Non-Progressive (Gr II)              | : - Nil |               |
| Non-motile (Gr I)                    | : - Nil |               |

|                             |     |               |
|-----------------------------|-----|---------------|
| <i>Sperm Morphology (%)</i> |     |               |
| Normal forms :-             | Nil | Less than 50% |
| Abnormal forms :-           | Nil |               |

|                        |             |                     |
|------------------------|-------------|---------------------|
| Immature Germ cells :- | 6-7- / hpf  | < 1 million/ml.     |
| Leucocytes :-          | 3-4 - / hpf | Up to 1 million /ml |
| RBC 's :-              | Nil         |                     |
| Agglutination :-       | Nil         |                     |
| Aggregation :-         | Nil         |                     |
| L: D // Nil            |             |                     |

**Comments : Semen Qualitative Analysis shows "Azoospermia".  
With Hypospermia.**

*[Signature]*  
(Biologist)



DR. VIJAY R. KARNIK M.D.  
Consulting Pathologist

DR. CHINMAY K. SARAF M.D.  
Consulting Pathologist

DR. MRS. KUNDA V. KARNIK M.B.B.S.

**KARNIK LABORATORY**  
**SURGICAL PATHOLOGY & CYTOPATHOLOGY CENTRE**

LIC Bldg., Laxmi Road Corner, Opp. Lakdi Bridge, Pune 411 030.

☎ : 24451314, 9730154009 TIMING : 9 am to 3 pm & 5 pm to 8 pm

April 08, 2011

NAME : **SHRI. YOGESH PATIL**

Ref. by : P.N.H.  
HP-No. : 213/11

CLINICAL : testicular biopsy.

SPECIMEN : A small tissue bit is received, 0.3 cc.

MICROSCOPY : Sections from testicular biopsy show decrease in nos. & size of the seminiferous tubules. The basement membrane thickening is well established in all the tubules & hyalinization is varying in each.


The normal orderly maturation of germ cells, spermatids, spermatozoa into the mature sperms is not seen.

There is arrest of maturation at secondary spermatocytic level which is an incomplete maturation arrest as **few of the tubules show mature spermatids & sperms.**

None of the tubule shows clogging of the mature sperms. Leydig cell hyperplasia is not seen, there is no infective pathology.

This histomorphology suggests non-obstructive etiology i.e. moderate hypoplasia & early atrophic changes.

HISTOPATH ::: Moderate hypoplasia & early atrophic changes.  
DIAGNOSIS Correlate with the semen analysis report.

  
08/04/11  
Dr. Chinmay Saarf, MD (Path)



# AFTER TREATMENT

**DR. RAM SATHAYE**  
(M. D. Path.)

S. N. 29/4, RENUKA CHAMBERS,  
PUNE-SATARA ROAD,  
DHANKAWADI, PUNE - 411 043.  
PHONE : 24365895  
MOBILE : 9422322666

PHULE MANSION CO. OP. HSG. SOC.  
S. NO. 42/A, PLOT NO. 481,  
SHIVDARSHAN CHOWK,  
PARVATI, PUNE - 411 009.  
PHONE : 24442100



Consulting Pathologist

- NIRANJAN NURSING HOME : 1885, SADASHIV PETH, NATU BAUG, PUNE - 411 030. PHONE : 24477273
- NISHKARSHA : AMRAPALI APARTMENTS, NEAR RAVIKIRAN HALL, BIBWEWADI, PUNE - 411 037. PHONE : 24281514

NAME : Mr. Yogesh Patil  
REF BY : Dr. Narendra Borade

SEX : Male  
DATE : 04/10/2011

## SEMEN ANALYSIS

| TESTS                                    | RESULTS                                        | UNIT       | NORMAL RANGE |
|------------------------------------------|------------------------------------------------|------------|--------------|
| Sample collection                        | : OUTSIDE LAB.                                 |            |              |
| Recd. Time                               | : 5.50 pm                                      |            |              |
| Collection Time                          | : 5.30 pm                                      |            |              |
| <b><u>Physical Examination</u></b>       |                                                |            |              |
| Quantity                                 | : 2                                            | ml         |              |
| Appearance                               | : Opaque White                                 |            |              |
| Colour                                   | : Whitish                                      |            |              |
| Viscosity                                | : Liquid                                       |            |              |
| Liquefaction time                        | : Already Liquefied.                           |            |              |
| <b><u>Chemical Examination</u></b>       |                                                |            |              |
| Reaction                                 | : Alkaline                                     |            |              |
| Fructose                                 | : Reduced.                                     |            |              |
| <b><u>Microscopic Examination</u></b>    |                                                |            |              |
| Sperm count                              | : 68                                           | million/ml | 40 - 120     |
| Motility at 1 hr.                        | : 60                                           | %          |              |
| Motility at 2 hrs.                       | : 50                                           | %          |              |
| <b><u>Motility : (At room temp.)</u></b> |                                                |            |              |
| Grade II                                 | : Poor to fair activity                        |            |              |
| Grade III                                | : Good activity with tail movements visualised |            |              |
| Abnormal Forms                           | : 26 %                                         |            |              |
| Pus cells                                | : 6-8                                          | /hpf       |              |
| Epithelial cells                         | : 1-2                                          | /hpf       |              |
| RBC                                      | : Absent                                       |            |              |

Note

: Repeat semen analysis after 4 days of abstinence s.o.s.

Dr. Ram Sathaye





# CASE 3 BEFORE TREATMENT

## Patho Diagnost

COMPUTERISED LABORATORY



Mr. Pradeep Gupta.

Ref. By. Dr. - V.K. Kolwadkar. M.D.

### SEMEN ANALYSIS

( Residence Sample. )

#### GENERAL

VOLUME .- 0.8 ml.

COLOR .- Grayish White.

REACTION .- Alkaline.

VISCOSITY .-

LIQUEFACTION TIME .-

PERIOD SINCE LAST EMISSION .-

#### MICROSCOPIC

TOTAL SPERM COUNT .- NO SPERMATOZOOA SEEN.  
(Normal 60-150 millions/MI.)

MOTILITY .-

MORPHOLOGY .-

OTHER CELLS .-

FURCTOSE TEST .-

OPINION .- AZOOSPERMIA.

3rd March, 2014

Kindly corelate clinically. Advised follow up and other confirmatory tests.

Dr. V. K. KOLWADKAR [M.D.]

M. D., Path. & Bact. (Ngp.)  
CONSULTANT PATHOLOGIST  
Ambadevi Road, AMRAVATI  
Phone : 2674774

डॉ. वि. के. कोलवाडकर

एम.डी.  
अंबादेवी रोड, अमरावती

☎ : २६७४७७४



Mr. Pradeep Gupta.  
Dr.

DATE 11th Mar, 14.

TIME 10 A.M. TO 9 P.M.

## HISTOPATHOLOGY

RECEIVED ON - 5th Mar, 14.

REF. NO. - VK14/11.

ISSUE - Testicular biopsy. ( Right & Left.)

Gross. - Two very tiny immeasurable tissue pieces received.

Microscopic.- (Right & Left Testis.)- The section shows effacement of the orcheal architecture. The seminiferous tubules are of variable sizes and shapes exhibiting marked disorganisation and sloughing in places.

There is meagre cellularity and exhibits extensive spermatogenic hypoplasia, spermatocytic maturation arrest. In places the seminiferous tubules are lined only by sertoli cells. In places there is marked thickening of the tubular basement membrane and interstitial fibrosis.

Comment. - The features are suggestive of **Marked spermatogenic hypoplasia with maturation arrest.**

Mandatory suggestion.- ( Kindly advised immunohistochemical study, elastic tissue stain, immunoglobulin deposits stain, vasogram, Hormonal assay and confirmatory tests.)

> The Science of histopathology biopsy diagnosis is based on the appearance exhibited by sections prepared from tissue sample brought by the patient or sent by surgeon.

> Such sections may mimic varieties of diseases exhibiting similar histopathological appearances and vice versa.

> Our opinion is based on these appearances.

> Hence please correlate this report clinically to come to final conclusion.

Advised follow up & confirmatory tests.

(Eagle, Am.)

> In Cancer reports a second opinion of any senior onco-histopathologist from cancer reference centres is mandatory.

डॉ. वि. के. कोलवाडकर

अंबादेवी रोड, अमरावती.

फोन : २६७४७७४



# AFTER TREATMENT



**Dr. Subhash B. Udhawani**

M.B.B.S., M.D. (PATH)

Lab - 0721-2572356  
Resi : 2572718

**Computerised - Udhwani Pathology Lab.**

4 - 7, 1st Floor, Madiwale Complex, Rajkamal Chowk, Amravati (M.S.) - 444601

NAME: Mr. Pradip Gupta

Referred By: Dr.

DATE: 07/11/2014

## SEMEN ANALYSIS

### PHYSICAL EXAM

|                   | RESULT | NORMAL   |
|-------------------|--------|----------|
| Volume ml         | 0.9    | 2-6      |
| pH                | 8.0    | Alkaline |
| Liquification min | 5 min  | 30       |
| Viscosity         | Normal |          |

### MICROSCOPY

|                          |         |        |
|--------------------------|---------|--------|
| Sperm count (million/ml) | 34      | 20-200 |
| Abnormal forms %         | 12%     | <30    |
| Pus cells                | 3-4/hpf |        |

### MOTILITY

|                   |    |                      |
|-------------------|----|----------------------|
| Exellent IV       | 15 |                      |
| Good III          | 35 | Atleast 50% III & IV |
| Sluggish II       | 5  |                      |
| Non progressive I | 5  |                      |
| Non motile        | 40 |                      |

### CHEMICAL EXAM

|          |          |          |
|----------|----------|----------|
| Fructose | Positive | Positive |
|----------|----------|----------|

OPINION : **NORMOSPERMIA** (except low volume)

(Sample collected in lab)

*S. Bond*

• THE RESULTS OF TESTS MAY VARY FROM LAB TO LAB AND ALSO FROM TIME TO TIME FOR THE SAME PARAMETERS FOR THE SAME PATIENT  
 • The most sophisticated Computerized Blood Analyser Techniques are subject to unaccountable variations. So the final diagnosis and conclusions should not be drawn from these tests only, kindly correlate clinically.  
 • Blood Group Rh Typing : Subject to variation depending upon Du variants and presence of interfering agglutinins in patient's blood



CASE 4 BEFORE TREATMENT

**Patho Diagnost**

COMPUTERISED LABORATORY

Mr. Sandip Deshmukh.  
Dr.

**SEMEN ANALYSIS**

29th June

**GENERAL**

( Random sample. )

VOLUME - 3.3 ml.  
COLOUR - Grayish white.  
REACTION - Alkaline.  
VISCOSITY - Normal.  
LIQUEFACTION TIME - 25 Minutes.  
PERIOD SINCE LAST EMISSION -

**MICROSCOPIC**

TOTAL SPERM COUNT - 18 Millions/ ml.  
(Normal 60-150 millions / ml.)  
MOTILITY - Progressive. ( Grade II.)  
MORPHOLOGY - 8 % Abnormal forms.  
OTHER CELLS -  
OPINION.- Oligoasthenospermia.

Kindly correlate clinically, Advised follow up and other confirmatory tests.

**Dr. V. K. KOLWADKAR**

(M.D.)Path. & Bact. (Ngp.)  
CONSULTANT RATHOLOGIST  
Ambadevi Road, AMRAVATI  
Ph No. 2564774

*Kolwadkar*

डॉ. वि. के. कोलवाडकर

एम.डी.  
अंबादेवी रोड, अमरावती.  
फोन: २५६४७७४



**AFTER TREATMENT**

**Patho Diagnost**  
COMPUTERISED LABORATORY

Mr. Sandip Deshmukh,  
Dr. N. Borate,

11th Aug, 15

**SEMEN ANALYSIS**  
( Random sample. )

**GENERAL**

VOLUME - 3.4 ml.  
COLOUR - Grayish white.  
REACTION - Alkaline.  
VISCOSITY - Normal.  
LIQUEFACTION TIME - 19 Minutes.  
PERIOD SINCE LAST EMISSION -

**MICROSCOPIC**

TOTAL SPERM COUNT - 62 Millions / ml.  
(Normal 60-150 millions / ml.)  
MOTILITY - Progressive. ( Grade III. )  
MORPHOLOGY - 7 % Abnormal forms.  
OTHER CELLS -  
OPINION. - Normal Semen sample.

Kindly correlate clinically, Advised follow up and other confirmatory tests.

**Dr. V. K. KOLWADKAR**  
(M.D.) Path. & Bact. (Npg.)  
CONSULTANT PATHOLOGIST  
Ambadevi Road, AMRAVATI  
Ph No. 2584774

डॉ. वि. के. कोलवाडकर  
एम.डी.  
अंबादेवी रोड, अमरावती.  
फोन : २५६,४७७४



# CASE 5

# BEFORE TREATMENT

*Dr. Manish S. Beri*  
(M.D.)

Consulting Pathologist



## THE MED'S INN

Office No. 12&13, Bramha Estate, Kondhwa,  
Pune - 411 048. Tel.: 020 - 2683 6633  
E-mail : [themedinn@yahoo.com](mailto:themedinn@yahoo.com)  
[www.seekandsource.com/themed'sinn](http://www.seekandsource.com/themed'sinn)


REG NO. : OPD / 1 476 212  
NAME : Mr. Parshuram Daune      AGE : 32 Years      SEX : Male  
REF BY : . Kala Clinic.      DATE : 26/06/2009

### SEMEN ANALYSIS:

| TESTS                          | RESULTS                                                            | REFERENCE RANGE                    |
|--------------------------------|--------------------------------------------------------------------|------------------------------------|
| <u>Collection History</u>      |                                                                    |                                    |
| Time of Collection             | : 7 : 20 pm                                                        |                                    |
| Time of Liquifaction           | : 7 : 55 pm                                                        |                                    |
| <u>Physical Examination</u>    |                                                                    |                                    |
| Quantity                       | : 2ml                                                              |                                    |
| Reaction                       | : Alkaline                                                         | Alkaline                           |
| <u>Microscopic Examination</u> |                                                                    |                                    |
| Total Sperm Count              | : Nil                                                              | 20 - 300 mil / ml                  |
| Sperm Motility                 | : Grade I:Nil      Grade III:Nil<br>Grade II:Nil      Grade IV:Nil |                                    |
| Total Motility                 | : Nil                                                              | 70 %                               |
| Sperm Morphology               | : Normal:Nil<br>Abnormal:Nil                                       | Normal:80 - 90%<br>Abnormal:< 10 % |
| Pus Cells                      | : 10 - 12                                                          |                                    |
| RBCs                           | : Absent                                                           |                                    |
| Macrophages                    | : Absent                                                           |                                    |
| Crystals                       | : Absent                                                           |                                    |
| Impression                     | : AZOOSPERMIA                                                      |                                    |

### CORELATION OF SPERM MOTILITY AS PER WHO CRITERIA & MAC LEOD'S GRADES:

- Grade 4: Excellent swift progressive motility.
- Grade 3: Moderate progressive motility.
- Grade 2: Struggling progressive motility.
- Grade 1: Poor sluggish non-progressive motility.

 Dr. Manish Beri

• Hematology -Analysed on Automated cell Counter poch-100i SYSMEX, U.S.A. • Biochemistry-Analysed on Automated Analyser/SEAC - SLIM, ITALY  
• Hormones / Tumour Marker-Analysed on fully Automated C.L.I.A. Analyser. A-I-A\*), TOSoH, JAPAN. •Electrolytes - Analysed on I.S.E. Analyser, A.V.L. 9180  
• The LabReport is not a diagnosis. It represents only an opinion. In case of quires regarding the contents of reports, please feel free to contact us.



# AFTER TREATMENT

**Dr. Manish S. Beri**  
(M.D.)  
Consultant Pathologist



An ISO 9001:2008 Certified Centre

## THE MED'S INN

Office No. 12 & 13, Bramha Estate, Kondhwa  
Pune - 411 048. Tel.: 020 - 2683 6633  
6478 3983 to 6478 3999  
E-mail : themedsinn@yahoo.com  
www.seekandsource.com/themed'sinn

Reg. No. : 0002741

Name : MR PARSHURAM DHONE

37 Years / Male

Dated on : 21/03/2015 02:35 pm

Report Date : 21/03/2015 04:00 pm

Ref. By : Dr. Narendra Borate

P.No : 2327

### CLINICAL PATHOLOGY

#### TEST(S)

#### RESULTS

#### REFERENCE RANGE

#### Semen Analysis:

|                         |                                                              |                                    |
|-------------------------|--------------------------------------------------------------|------------------------------------|
| Collection History      |                                                              |                                    |
| Time of Collection      | : 2:25 PM                                                    |                                    |
| Time of Liquifaction    | : 25 min                                                     | 15 - 30 min                        |
| Physical Examination    |                                                              |                                    |
| Quantity                | : 2 ml                                                       |                                    |
| Viscosity               | : Normal                                                     |                                    |
| Reaction                | : Alkaline                                                   | Alkaline                           |
| Chemical Reaction       |                                                              |                                    |
| Fructose                | : absent                                                     |                                    |
| Microscopic Examination |                                                              |                                    |
| Total Sperm Count       | : 90mil/ml                                                   | 20 - 300 mil / ml                  |
| Total Motility          | : 60%                                                        | 70 %                               |
| Sperm Motility          | : Grade I:30 % Grade III:25 %<br>Grade II: %25 Grade IV:20 % |                                    |
| Sperm Morphology        | : Normal:50 % Abnormal:20 %<br>Dead:30 %                     | Normal:80 - 90%<br>Abnormal:< 10 % |
| Pus Cells               | : 8 - 10                                                     |                                    |
| RBCs                    | : Absent                                                     |                                    |
| Macrophages             | : Absent                                                     |                                    |
| Crystals                | : Absent                                                     |                                    |
| Impression              | : Normal Count With Decreased Motility                       |                                    |

#### CORELATION OF SPERM MOTILITY AS PER WHO CRITERIA & MAC LEOD'S GRADES:

Grade 4: Excellent swift progressive motility.

Grade 3: Moderate progressive motility.

Grade 2: Struggling progressive motility.

Grade 1: Poor sluggish non-progressive motility.

Sample is reprocessed & report is confirmed.

--- End Of Report ---

**Dr. Manish. S. Beri**  
M.D.(Pathology) Reg.No.-74978



# CASE 6 BEFORE TREATMENT



**Dr. SATAV'S**  
Pathology Laboratory

ISO 9001:2008 Certified

Patient Name : MR PATHAN IMRAN  
Registration No. : 0002072 / OPD  
Age & Sex : 34 Years / Male  
Referred By : SELF



Registration Date : 12/12/2014 05:03 pm  
Collection Date : 12/12/2014 05:05 pm  
Report Date : 12/12/2014 06:37 pm  
Printed Date : 12/12/2014 07:56 pm  
Permanent No. : 1955

## CLINICAL PATHOLOGY

| <u>TEST</u>                           | <u>RESULT</u>    | <u>UNITS</u> | <u>REFERENCE RANGE</u> |
|---------------------------------------|------------------|--------------|------------------------|
| <b><u>SEMEN ANALYSIS</u></b>          |                  |              |                        |
| Sample Collection                     | : Lab Collection |              |                        |
| Time of collection                    | : 4.55 pm        |              |                        |
| Time of Liquefaction                  | : 5.25 pm        |              |                        |
| Abstinence                            | : 3 Days         |              |                        |
| <b><u>PHYSICAL EXAMINATION</u></b>    |                  |              |                        |
| Quantity                              | : 2.5            | ML           | 0.5-5.0                |
| Colour                                | : Opaque White   |              |                        |
| Consistency                           | : Viscous        |              |                        |
| <b><u>CHEMICAL EXAMINATION</u></b>    |                  |              |                        |
| PH                                    | : Alkaline       |              |                        |
| Fructose                              | : Present        |              |                        |
| <b><u>MICROSCOPIC EXAMINATION</u></b> |                  |              |                        |
| Total Sperm count                     | : <b>00</b>      | million /ml  | 60-120                 |
| Motile Sperm                          | : 00             | %            |                        |
| Grade IV                              | : --             | %            |                        |
| Grade III                             | : --             | %            |                        |
| Grade II                              | : --             | %            |                        |
| Grade I                               | : --             | %            |                        |
| Spermatids                            | : --             | /HPF         |                        |
| IMPRESSION                            | : AZOOSPERMIA    |              |                        |

--- End Of Report ---

*CHB*

DR. A V ASHTURKAR  
MD  
CHKD

DR. R MAHALAKSHMI  
MD

DR. S B SAKHARE  
MD

DR. A S GIRI  
MD

DR. V H SATAV  
MD





# AFTER TREATMENT



**Dr. SATAV'S**  
Pathology Laboratory

ISO 9001:2008 Certified

Patient Name : MR PATHAN IMRAN  
Registration No. : 0002480 / OPD  
Age & Sex : 34 Years / Male  
Referred By : SELF  
Center : DR BORATE



Registration Date : 14/04/2015 07:17 pm  
Collection Date : 14/04/2015 07:20 pm  
Report Date : 14/04/2015 08:43 pm  
Printed Date : 15/04/2015 12:47 pm  
Permanent No. : 1955

## CLINICAL PATHOLOGY

| <u>TEST</u>                           | <u>RESULT</u>    | <u>UNITS</u> | <u>REFERENCE RANGE</u> |
|---------------------------------------|------------------|--------------|------------------------|
| <b><u>SEMEN ANALYSIS</u></b>          |                  |              |                        |
| Sample Collection                     | : Lab Collection |              |                        |
| Time of collection                    | : 07:05 PM       |              |                        |
| Time of Liquefaction                  | : 07:18 PM       |              |                        |
| Abstinence                            | : 3 days         |              |                        |
| <b><u>PHYSICAL EXAMINATION</u></b>    |                  |              |                        |
| Quantity                              | : 2.5            | ML           | 0.5-5.0                |
| Colour                                | : Opaque White   |              |                        |
| Consistency                           | : Viscous        |              |                        |
| <b><u>CHEMICAL EXAMINATION</u></b>    |                  |              |                        |
| PH                                    | : Alkaline       |              |                        |
| Fructose                              | : Present        |              |                        |
| <b><u>MICROSCOPIC EXAMINATION</u></b> |                  |              |                        |
| Total Sperm count                     | : <b>05</b>      | million /ml  | 15-120                 |
| Motile Sperm                          | : 50             | %            |                        |
| Grade IV                              | : 31             | %            |                        |
| Grade III                             | : 29             | %            |                        |
| Grade II                              | : 28             | %            |                        |
| Grade I                               | : 12             | %            |                        |
| Spermatids                            | : 1 to 2         | /HPF         |                        |
| RBCs                                  | : Absent         |              |                        |
| Pus Cells                             | : Absent         |              |                        |
| IMPRESSION                            | : OLIGOSPERMIA.  |              |                        |

--- End Of Report ---

*CHB*

DR. A V ASHTURKAR  
MD  
CHKD

DR. R MAHALAKSHMI  
MD

DR. S B SAKHARE  
MD

DR. A S GIRI  
MD

DR. V H SATAV  
MD



*THANK YOU*

