

## Sperm Pro Report

### Computer Assisted Semen Analysis (CASA)

The system follows WHO (2021)

strict criteria for motility patterns & morphometric assessment of human semen.

|            |  |                 |                     |
|------------|--|-----------------|---------------------|
| Patient Id |  | Ref. by         | Dr. Vijyant Govinda |
| Name       |  | Collection Date | 05-02-26            |
| Age        |  | Analysis Date   |                     |

#### Specimen Description :

|            |         |            |
|------------|---------|------------|
| Volume     | 3       | > 2.0      |
| pH         | 7       | 7.2-8.0    |
| Color      | Greyish | white-gray |
| Odor       | Normal  | Normal     |
| Viscosity  | Normal  | Normal     |
| Liq. Time  | 30      | 10-30min   |
| Liq. State | Normal  |            |

#### Collection Info :

|                             |               |
|-----------------------------|---------------|
| Coll. Location              | Voided at Lab |
| Abstinence                  | 3 3-7 days    |
| Coll. Method                | Masturbation  |
| Agglutination & Aggregation |               |
| Aggregation                 | None          |
| Agglutination               | None          |
| Fructose                    | Positive      |

#### Test Result :

| Test                   | Result  | Status | Ref. Value                    | <p><b>Sperm Distribution</b></p> <p>16.12 9 25.80 6 40.55 3 17.51 2</p> <ul style="list-style-type: none"> <li>Fast Prog. Motile (%A)</li> <li>Slow Prog. Motile (%B)</li> <li>Non Prog. Motile (%C)</li> <li>Immotile (%D)</li> </ul> |
|------------------------|---------|--------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Concentration(M/ml)    | 60.4397 | PASS   | $\geq 15(\text{M/ml})$        |                                                                                                                                                                                                                                        |
| Tot. Sperm Count(M)    | 181     | PASS   | $\geq 39(\text{M/Ejaculate})$ |                                                                                                                                                                                                                                        |
| Fast Prog. Motile (%A) | 17.512  | PASS   | $\geq 32\% (\text{A+B})$      |                                                                                                                                                                                                                                        |
| Slow Prog. Motile (%B) | 40.553  | PASS   |                               |                                                                                                                                                                                                                                        |
| Non Prog. Motile (%C)  | 25.806  | PASS   | $\geq 8\%$                    |                                                                                                                                                                                                                                        |
| Immotile (%D)          | 16.129  | PASS   | $\leq 50\%$                   |                                                                                                                                                                                                                                        |

#### Cells other than sperms :

|                     |     |           |                                                                                                                                                                                |
|---------------------|-----|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WBC                 | 2-3 | < 5/H.P.F | <p><b>Pinheads :</b></p> <p>Pinhead sperms are not counted as spermatozoa or head defects because they possess no chromatin or head structure anterior to the basal plate.</p> |
| RBC                 |     | < 5/H.P.F |                                                                                                                                                                                |
| Spermatogenic cells |     | /H.P.F    |                                                                                                                                                                                |
| Epithelial cells    |     | /H.P.F    |                                                                                                                                                                                |

#### Progression velocity assessment ---> for sperms with over 200 microns linearity

| Velocity (micr/sec) | %     | Count | Avg. Linear Velocity |
|---------------------|-------|-------|----------------------|
| 0 - 09              | 4.03  | 5     | 29.7                 |
| 10 - 20             | 12.90 | 16    |                      |
| 21 - 30             | 12.90 | 16    | Range of             |
| 31 - 40             | 11.29 | 14    | Linear Velocity      |
| 41 - 50             | 15.32 | 19    | 0.45 - 113.89        |
| > 50                | 43.55 | 54    |                      |

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OFFICE: 57D, DDA, SFS-2 COMPLEX, MOTIA KHAN PAHAR GANJ, DELHI 110055, MOBILE 9821477402

Note: All tests have technical limitations correlation of clinical features and other investigations are mandatory to arrive at a clinical diagnosis.

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| Name       | ANAN | Collection Date | 05-02-26            |
| Age        | 27   | Analysis Date   |                     |

**CONCENTRATION AND MOTILITY ANALYSIS**

**Dynamic Parameters Report (I)**

| Test             | Conc.(millions/ml) | Tot. No.(Million) | %      | Ref. Values             |
|------------------|--------------------|-------------------|--------|-------------------------|
| Tested Sperm     | 217                | 181               |        | $\geq 15$ (millions/ml) |
| Tot. Mot (A+B+C) | 50.687             | 152.07            | 83.871 | $\geq 40\%$             |
| Prog. Mot (A+B)  | 35.09              | 105.28            | 58.065 | $\geq 32\%$             |
| Non Prog. (C)    | 15.597             | 46.79             | 25.806 | $\geq 8\%$              |
| Immotile (D)     | 9.748              | 29.24             | 16.129 | $\leq 50\%$             |

**\* Prog. motility (PR)**

Spermatozoa moving actively, either linearly or in a large circle, regardless of speed  
Speed for A is (25  $\mu$ m/s) & for B (5 to < 25  $\mu$ m/s).

**\*Non Prog. motility(NP)**

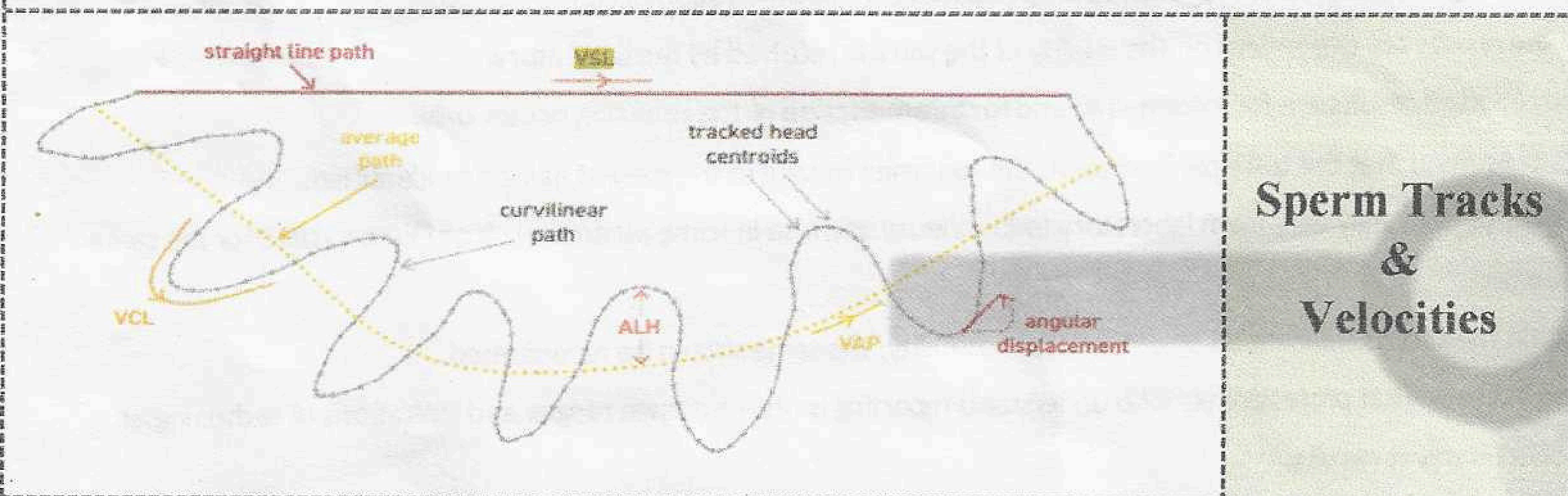
All other patterns of motility with an absence of progression, i.e swimming in small circles, the flagellar force hardly displacing the head,

**\*Immotile (IM)**

No movement

**Dynamic Parameters Report (II)**

| Parameters       | Values | Description                     |
|------------------|--------|---------------------------------|
| VCL [ $\mu$ m/s] | 53.34  | Curvilinear Velocity            |
| VSL [ $\mu$ m/s] | 27.06  | Straight Line Velocity          |
| VAL [ $\mu$ m/s] | 30.77  | Avg. Path Velocity              |
| MAD [°]          | 13.08  | Mean Angular Degree             |
| ALH [ $\mu$ m]   | 2.39   | Amplitude of lateral head Disp. |
| BCF [Hz]         | 0.54   | Beat-Cross Frequency            |
| LIN              | 0.86   | Linearity(VSL/VCL)              |
| WOB              | 0.61   | Wobble(VAP/VCL)                 |
| STR              | 49.69  | Straightness(VSL/VAP)           |



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**Sperm Pro Report**

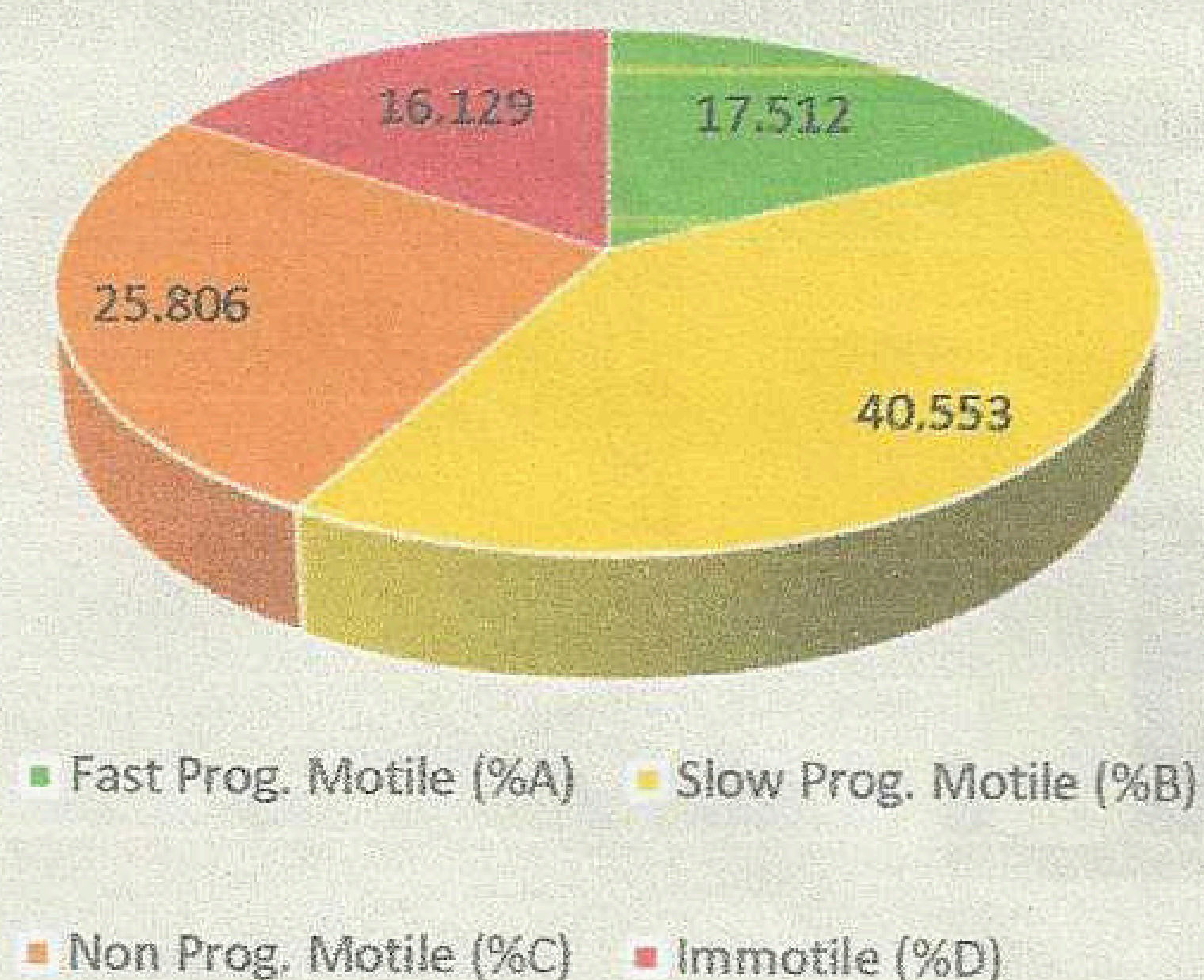
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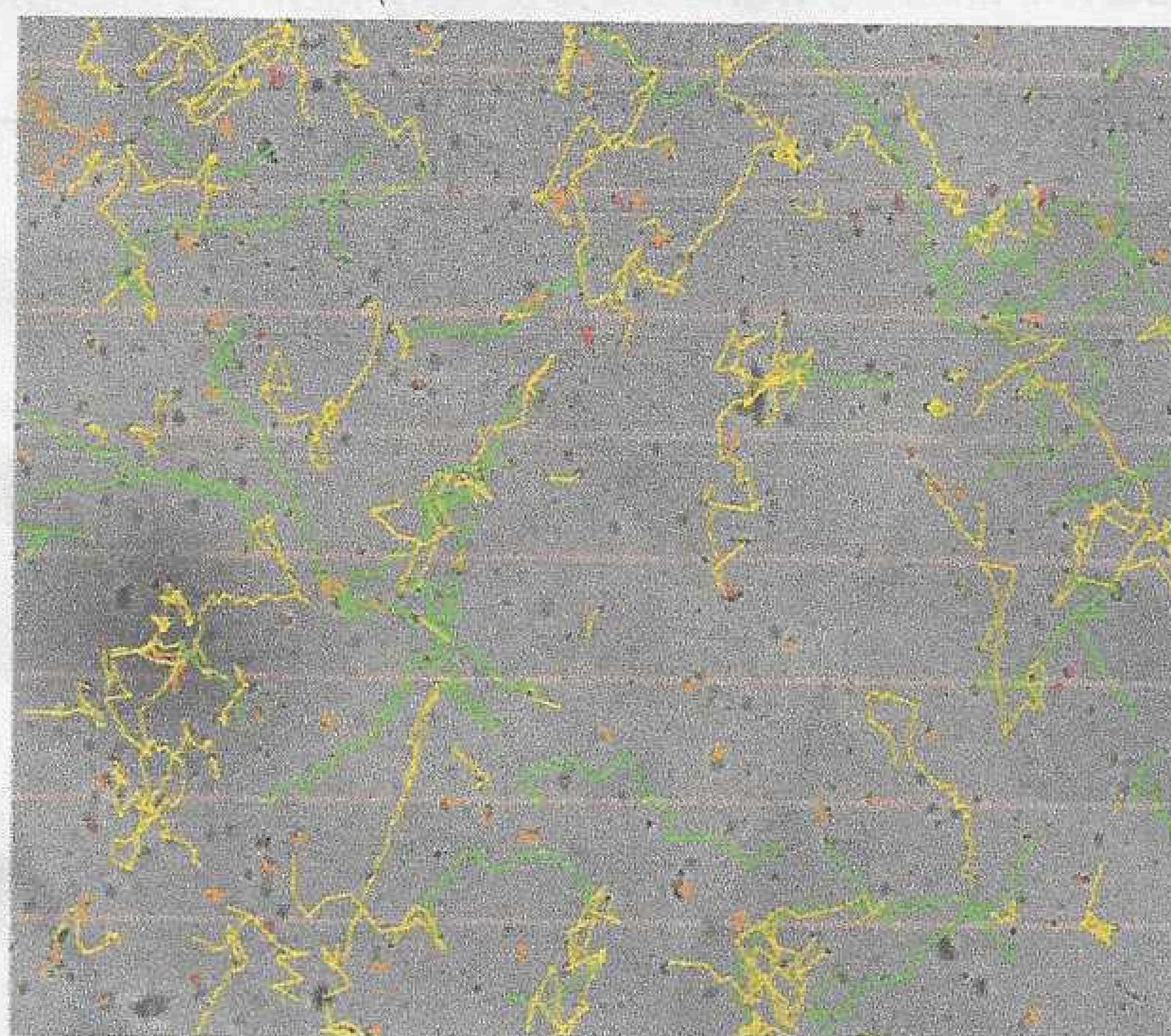
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**SEMEN ANALYSIS CHARTS**

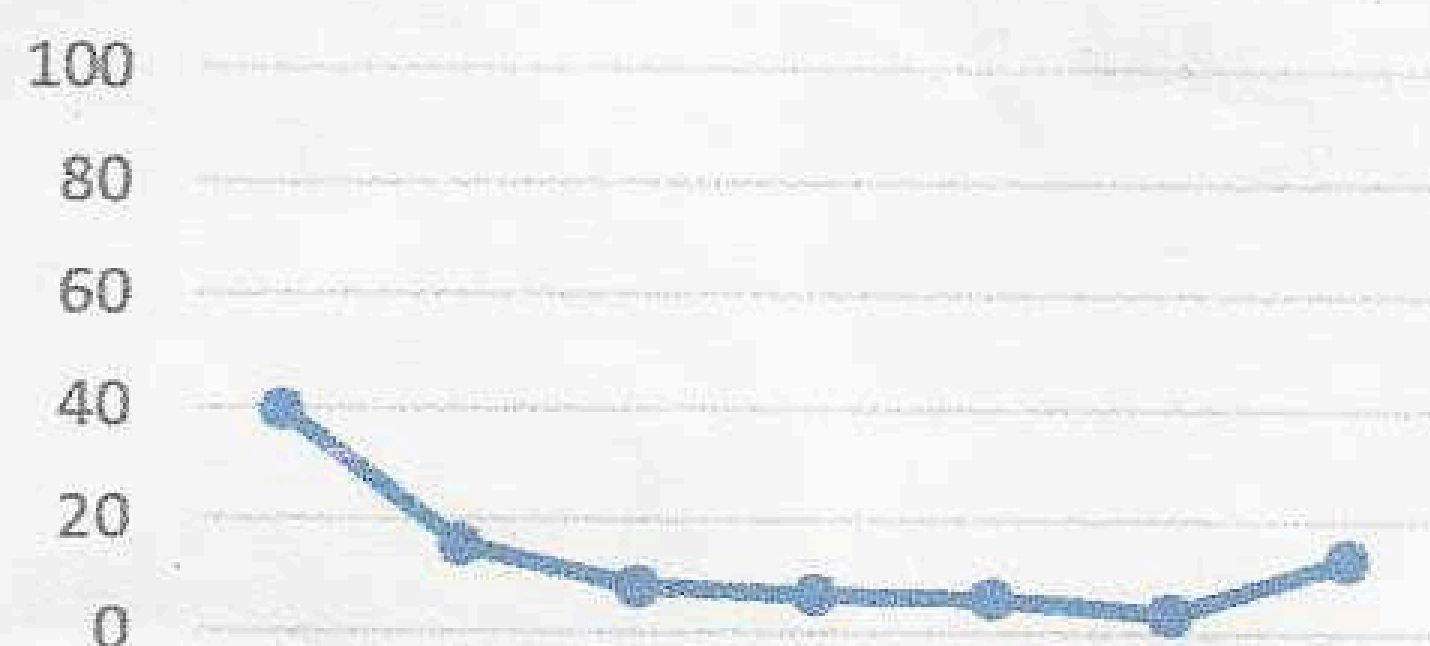
**Sperm Distribution**



**Sperm Motility Track Image**

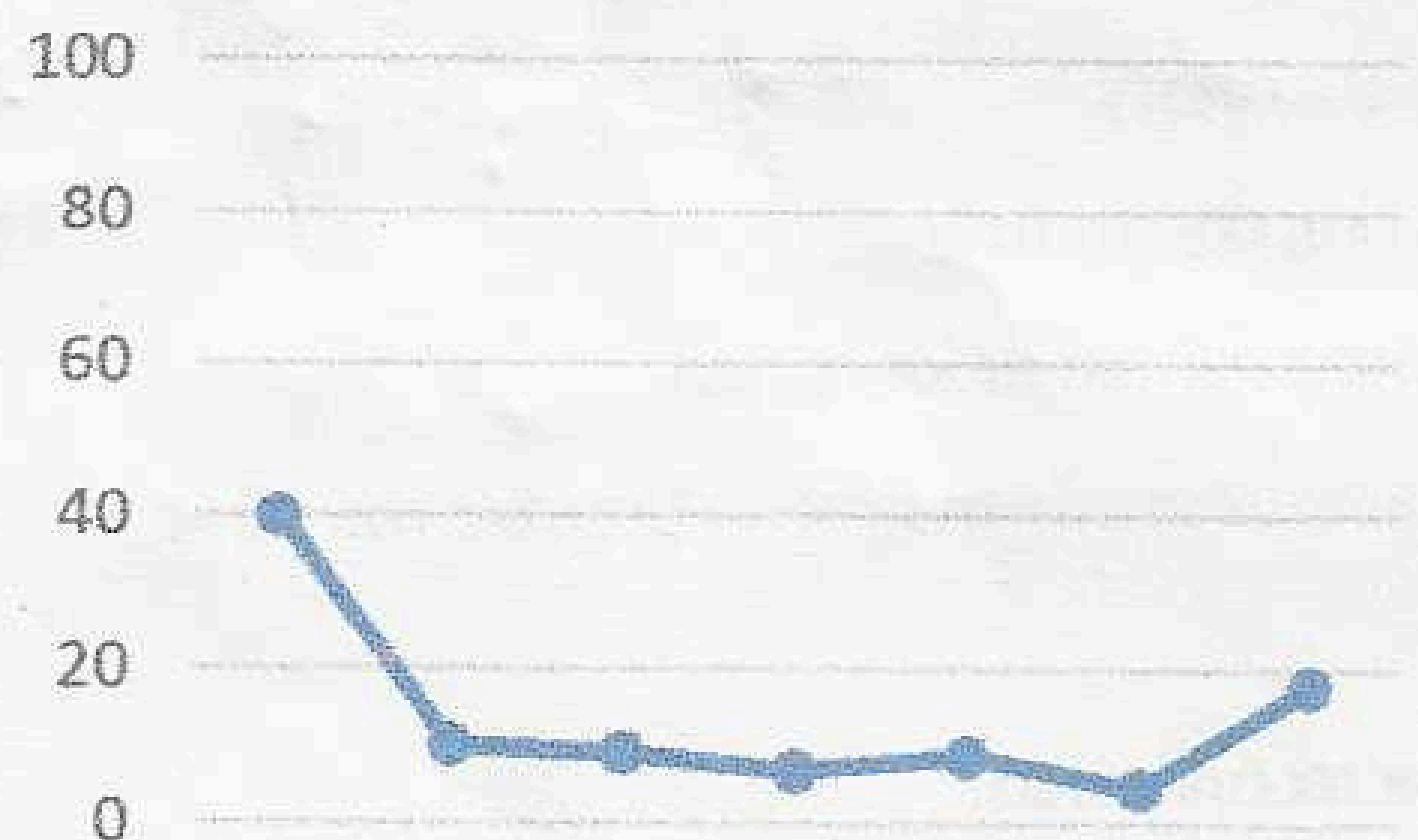


**Progressive Velocity(VSL)**

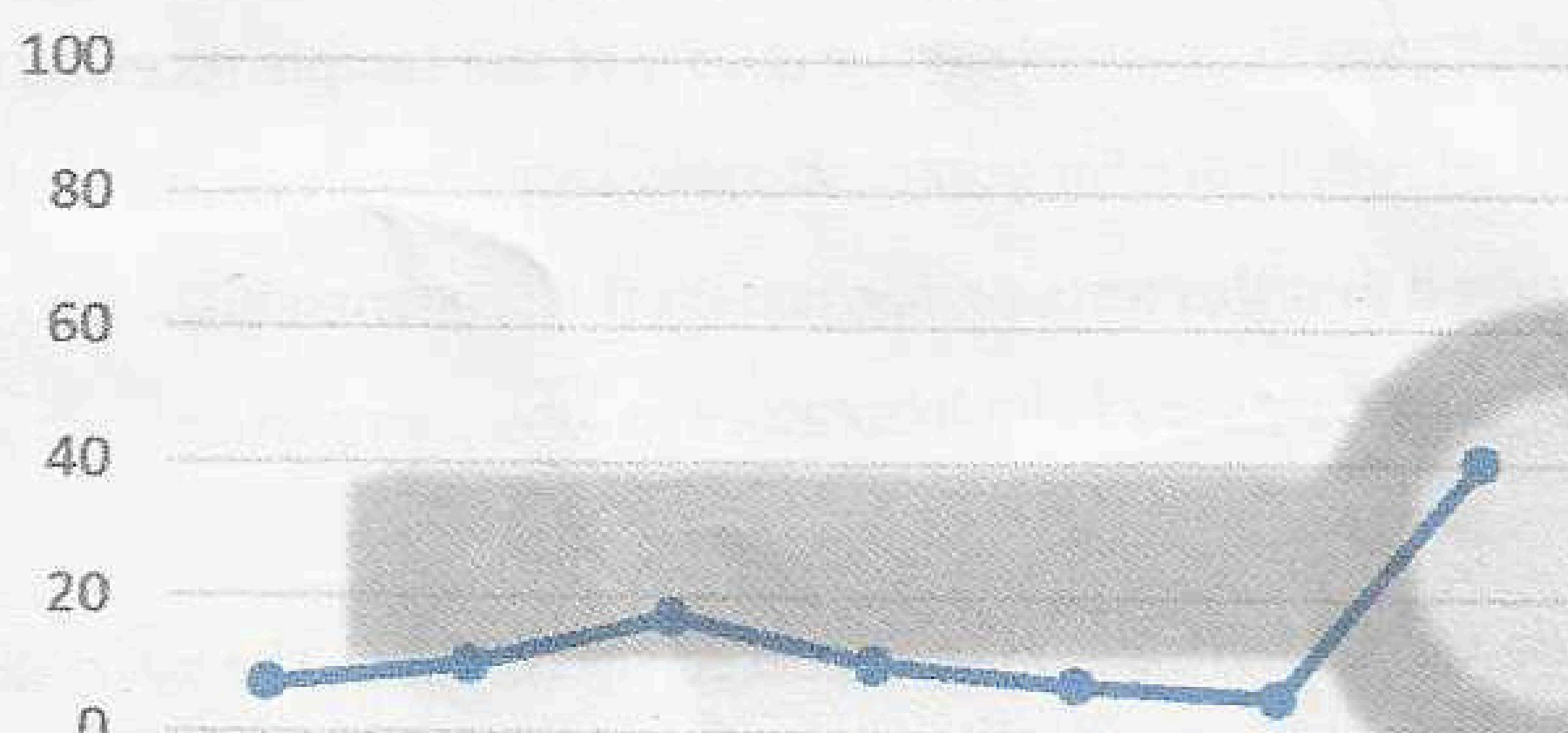


\* The microscopic image is taken in real-time.

**Track Speed(VCL)**



**Path Velocity(VAP)**



Comment :

Examined By :

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