



Computer Assisted Sperm Analysis – CASA

MacBiophotonics CASA System™



Sperm Analysis Report

Medica Centar

Novosadska 1/c, Nis

018-249-178, 064-2951-004

www.medicacentar.info ; ivanbubanovic@yahoo.com

Patient Data

| | | | |
|---------------|--------------------|-------------------------|--------------------|
| N° 35/11/2008 | Date: 20.11.2008. | Receiving time: 16:30 h | Abstinence: 5 days |
| Name: Petar | Suriname: Petrovic | Birth date: 13.07.1979. | Age: 29 |

Macroscopic Analysis

| | | |
|---------------------------|--------------------------------|------------------------|
| Sample: Fresh | Type of standard: WHO | Analysis time: 17:10 h |
| Volume: 4 cm ³ | Complete liquefaction: 30 min. | Mucus: |
| Viscosity: Normal | Odor: Normal | Color: White |

Visual Chemical Analysis

| | | |
|---|----------------|-----------|
| WBC: 1x10 ⁶ /cm ³ | RBC: Negative | pH = |
| Agglutination: + | Aggregation: + | Vitality: |

Test Results

| WHO parameters | | Totals in sample |
|--|--|--|
| Concentration: 30.5x10 ⁶ /cm ³ | Class C - Non-progressive: 1.52x10 ⁶ /cm ³ = 5% | Spermatozoa: 122x10 ⁶ |
| Class A - Progressive: 13.72x10 ⁶ /cm ³ = 45% | Class D - Immotile (static): 9.15x10 ⁶ /cm ³ = 30% | Progressive motile (A+B): 79.3x10 ⁶ |
| Class B - Progressive: 6.10x10 ⁶ /cm ³ = 20% | Non-progressive and immotile (C+D): 10.67x10 ⁶ /cm ³ = 35% | Immotile and non-progressive (C+D): 42.7x10 ⁶ |
| Progressive motile (A+B): 19.82x10 ⁶ /cm ³ = 65% | Mean Velocity mm/s: | Functional: |

Cell Morphology

| Head and acrosome | Neck and midpiece | Tail | Other cells: |
|--|-------------------------|------------------|--|
| Normal: 88% | Non-axial cells: 5% | Normal: 95% | Granulociti, okrugle celije spermatozoidne loze i epitelne celije. |
| Small heads: 1% | Distal droplet: | Long: 2% | |
| Tapered heads: 1% | Cytoplasmic droplet: 1% | Short: 2% | |
| Large heads: 1% | Detached: 1% | Coiled: | |
| Amorphous heads: 1 | Distal droplet: 1% | 'Dag' defect: 1% | |
| Duplicated heads: | Other abnormalities: 3% | Duplicated: | |
| Oval heads: 3% | | | |
| Abnormal acrosome: 5% | | | |
| Total: 12% | Total: 11% | Total: 5% | |
| Total spermatozoa with abnormal morphology: 28% | | | |

Conclusion: Normozoospermia.

signature



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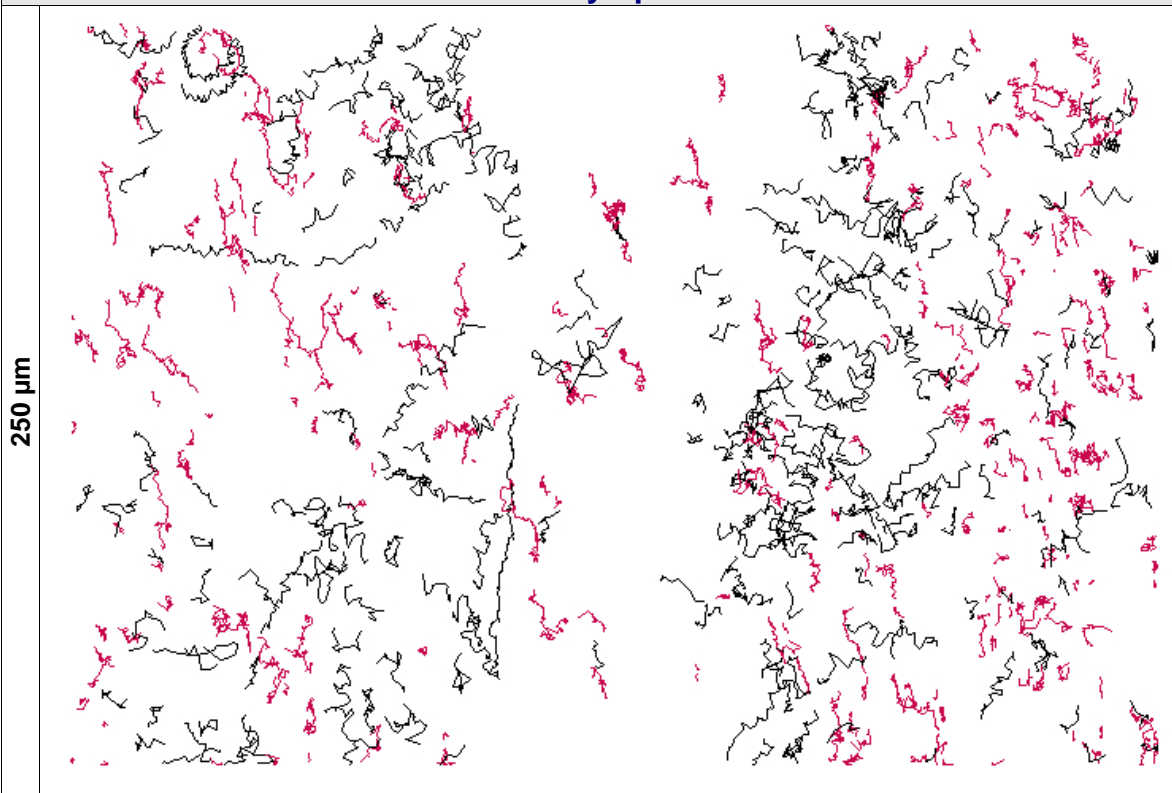
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Paths evaluated by Sperm Tracker™



Parameters of paths:
Picture size = 250x300 μm. Time of frames capturing = 6s. Frames rate = 25 fr/s.

Comment



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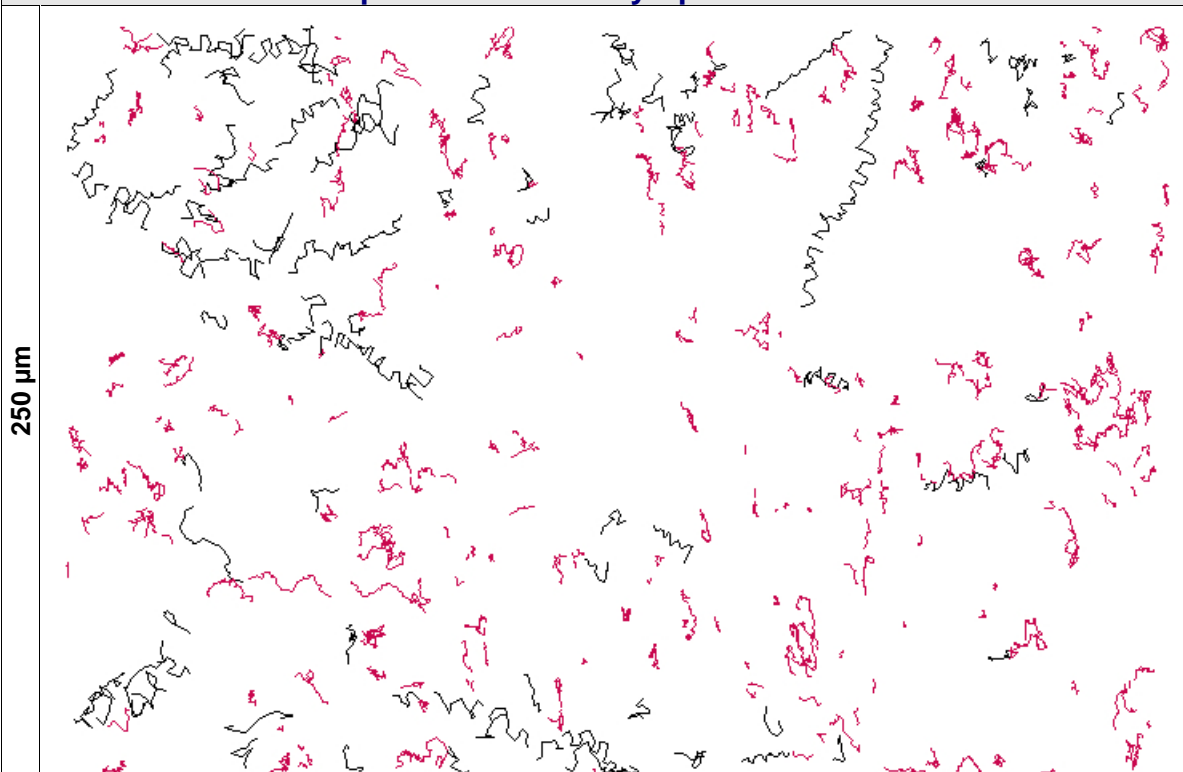
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All paths evaluated by Spot Tracker™



Parameters of paths:
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| | |
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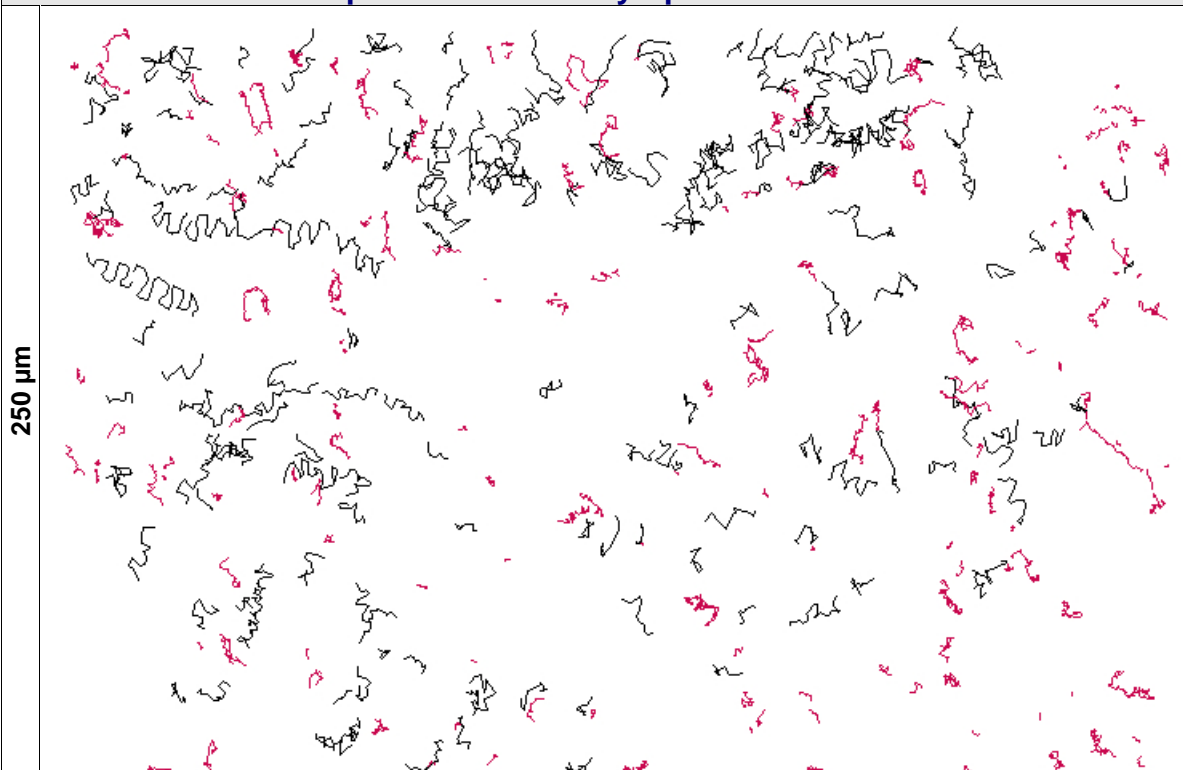
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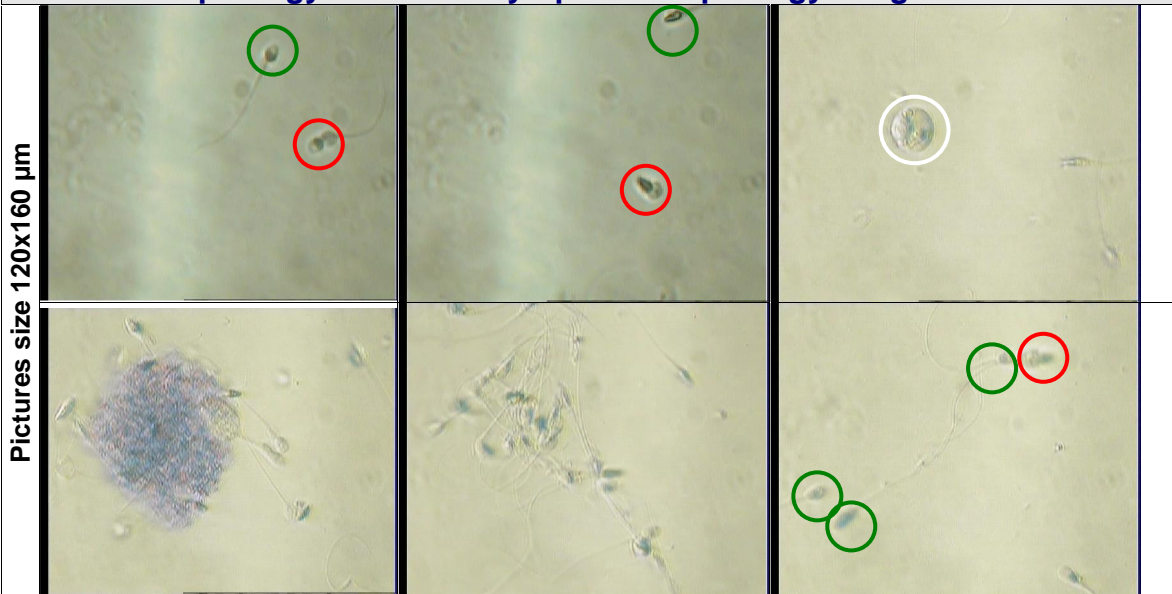
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Cell morphology evaluated by Sperm Morphology Image Enhancer™



Legend
Red – Abnormal morphology
Green – Normal morphology
White – White blood cells
Blue – Other cells

Comments