

## Technical Release Bulletin: SQA-V (Software version 2.43 through 2.49 Gold)

Issue date: May 19, 2008

Subject: Testing washed semen samples after “swim-up” sperm preparation

### Update:

For clinically accurate results, WASHED human semen samples prepared using “swim-up” technique must be run on the WASHED LOW VOLUME mode of the SQA-V.

### Procedure:

- In the ENTER PATIENT/SAMPLE DATA screen, select WASHED sample type.
- Answer NO to the question: IS SAMPLE VOLUME SUFFICIENT FOR COMPLETE TESTING,  $\geq 0.5$  ml? YES/**NO**
- Select LOW VOLUME mode if requested (SW versions 2.48/2.49).
- Fill only the front capillary section with 20  $\mu$ l of sample.
- Remove the blue stopper of the capillary.
- Clean and wipe carefully the capillary tip.
- For detailed instructions how to fill the capillary with a Low Volume specimen, refer to the SQA-V User Guide.
- Run the sample according to the SQA-V onscreen instructions.
- The following parameters will be reported: PMSC <a>, PMSC <b>, MSC, Velocity, SMI, Mot. Sperm and Prog. Sperm.

### Interpretation of SQA-V results for Swim-up testing:

- MSC is Sperm Concentration [M/ml] for the Swim-up sample (all spermatozoa are motile)
- PMSC <a> – Progressively Motile Sperm Concentration, grade **a** [M/ml]
- PMSC <b> – Progressively Motile Sperm Concentration, grade **b** [M/ml]
- Velocity – Average velocity of all motile spermatozoa [mic/sec]
- SMI – Sperm Motility Index
- Mot. Sperm – Total Motile # Sperm per semen volume [M]
- Prog. Sperm – Total Progressively Motile # Sperm per semen volume [M]

In order to calculate Prog. Motility **a** and **b** into percentages please note:

- Prog. Motility <a> =  $\text{PMSC } \langle a \rangle / \text{MSC} \times 100\%$ , for example:  $15 / 25 \times 100 = 60\%$
- Prog. Motility <b> =  $\text{PMSC } \langle b \rangle / \text{MSC} \times 100\%$ , for example:  $5 / 25 \times 100 = 20\%$

- WHO laboratory manual for the examination of human semen and sperm-cervical mucus interaction, 4<sup>th</sup> edition, Cambridge University Press, 2000.

**Compliance Date:** Effective May 19, 2008

**Authority:** Lev Rabinovich, PhD CTO [levr@mes-ltd.com](mailto:levr@mes-ltd.com)

**Distribution:** All SQA-V users.



[www.mes-ltd.com](http://www.mes-ltd.com) Tel: 972-4-637-3981 Fax: 972-4-637-3984

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