



Automate your semen analysis to a world class standard...  
Introducing Medical Electronic System's

# SQA-iO<sup>7</sup>



- Affordable and Accurate
- Interactive user interface
- 75-second semen analysis

*Remember, it All Started with a Sperm!*

Medical Electronic Systems, the worldwide leader in automated semen analysis for more than 20 years, is pleased to introduce the SQA-iO, an accurate and affordable cloud-based medical device that performs a basic semen analysis in 75 seconds.



## Ease of Use and Regulatory Compliant

Guided testing interface

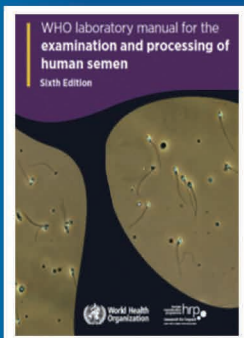
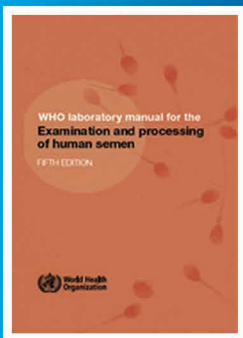
Auto calibrating

QwikCheck Beads QC

Fast with Accuracy >97%

Proficiency: CAP / QuaDeGa / NEQAS / others

### WHO 5<sup>th</sup> or 6<sup>th</sup> settings



# SQA-iO<sup>+</sup>



Results in  
75 Seconds



Reports 18 Semen  
Parameters



Replaces an Hour  
of Manual Testing



Accurate > 97%



Precise



Objective



Standardized

**Manufacturer → Direct Customer Support**  
**20 years of Manufacturing Excellence**



### Reported Semen Parameters

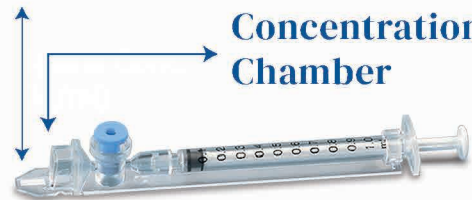


- ✓ Concentration
- ✓ Motility
- ✓ Progressive
- ✓ Rapidly Progressive
- ✓ Slowly Progressive
- ✓ Non Progressive
- ✓ Immotile
- ✓ Normal Forms
- ✓ Motile Sperm Concentration
- ✓ Prog. motile Sperm Concentration
- ✓ Rapid PR. Motile Sperm Concentration
- ✓ Slow PR. Motile Sperm Concentration
- ✓ Functional Sperm Concentration
- ✓ Total ejaculated Parameters

## Disposable Sample Delivery System

Motility/Morphology Chamber

Concentration Chamber



# SQA-iO<sup>+</sup>VU<sup>+</sup>



The SQA-VU, a visualization device that interfaces with the SQA-iO sperm quality analyzer. With the user friendly counting screens and image/video capture interface, sample concentration, motility and morphology can be easily assessed for automated sample confirmation.



# SQA-iO+VU

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## SQA-iO TEST REPORT

REPORT CONTINUED | PATIENT ID: 134145 | TEST DATE / TIME: 11/7/2022 9:38 AM

TOTALS PER EJACULATE	RESULT	UNITS	REF.VALUE
SPERM #	18.0	M/ejac	>=39 ↓
MOTILE SPERM*	6.1	M/ejac	
PROG. MOTILE SPERM*	3.4	M/ejac	
FUNCTIONAL SPERM*	NA	M/ejac	
MORPH. NORMAL SPERM*	0.5	M/ejac	

**COMMENTS:** Very clear seminal plasma, QwikCheck device used for liquefaction of this sample

### SMI (Sperm Motility Index) A CONTRIBUTING PREDICTOR OF MALE FERTILITY

#### What is SMI?

- Sperm Motility Index (SMI) is an MES SQA automatically generated index integrating motile sperm curvilinear velocity (VCL) into one value. It is reported in whole numbers without units.
- The positive correlation of SMI to male fertility was established and described in a number of papers.

#### SMI Grading and Male Fertility Potential:

- Studies have shown the correlation of SMI to male fertility potential as follows: 'LOW' (SMI < 80 (SMI = 80-160) and 'HIGH' (SMI > 160) with an SMI reference value (cut-off) of 80.
- Conclusions: In conjunction with other semen parameters, SMI can be utilized to assess/grade male fertility.

### SQA-iO AUTOMATED SEMEN ANALYSIS RESULTS

SQA-iO MES - Signal Processing Technology

#### PATIENT INFORMATION

FIRST NAME:	Dev	LAST NAME:	Agarwal
PATIENT ID:	4435353	AGE:	32
REFERRING DOCTOR:	Dr. Mehta	PHONE NUMBER:	546-6784-222

#### SAMPLE INFORMATION

SAMPLE ID:	454546	pH:	7.5
TEST TYPE:	FRESH	APPEARANCE:	NORMAL
COLLECTED DATE / TIME:	20/05/2020   10:00	VISCOSITY:	ABNORMAL
RECEIVED DATE / TIME:	20/05/2020   10:20	LIQUEFACTION:	30-60 Minutes
TEST DATE / TIME:	20/05/2020   11:00	ABSTINENCE (days):	3
CRITERIA:	WHO 6TH	SAMPLE TESTED:	NORMAL VOLUME
VOLUME (ml):	2.5	OPTIONAL 1:	Very clear seminal plasma
WBC CONC. (M/ml):	<=1	OPTIONAL 2:	QwikCheck used for liquefaction

PARAMETER	RESULT	UNITS	REF.VALUE	MOTILITY GRAPH
CONCENTRATION	6.0	M/ml	>=16 ↓	<p>(14%) (15%) (21%) (50%)</p> <p>Legend:  <span style="color: green;">■</span> Rapidly Progressive (%)  <span style="color: blue;">■</span> Slowly Progressive (%)  <span style="color: yellow;">■</span> Non-Progressive (%)  <span style="color: red;">■</span> Immotile (%)                 </p>
MOTILITY	50	%	>=42 ↓	
PROGRESSIVE	36	%	>=30 ↓	
RAPIDLY PROGRESSIVE	21	%		
SLOWLY PROGRESSIVE	15	%		
NON-PROGRESSIVE	14	%	<=1 ↓	
IMMOTILE	50	%	<=20 ↓	
NORMAL FORMS	3	%	>=4	
MOTILE SPERM CONC.*	9.0	M/ml		
PROG. MOTILE SPERM CONC.*	9.0	M/ml		
RAPID PR. MOTILE SPERM CONC.*	5.8	M/ml		
SLOW PR. MOTILE SPERM CONC.*	3.2	M/ml		
FUNCTIONAL SPERM CONC.*	NA	M/ml		
VELOCITY (VCL)*	NA	mic/sec	>=5	
SPERM MOTILITY INDEX*	0	---		

\*MES parameters are indicated by an asterisk

Signature: Tester Name: Brian Hofman Title (Designation): Lab Technician

FAC ID#: Z9XQWR | SR#: 10111 | Conc. Standard 1 | 20/05/2020 11:30:01 | AVG 55.81 | AW 15427 | CNT 330 | OD 1.126

Signature: Tester Name: Brian Hofman Title (Designation): Lab Technician

SQA-iO Device SR: 10111 | Conc. Standard 1 | 20/05/2020 11:30:01 | AVG 55.81 | AW 15427 | CNT 330 | OD 1.126



## CONTACT US

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