

## SQA-V: WHO 5<sup>th</sup> Testing Criteria for the SQA-V

Applies to the following: ALL SQA-V Systems

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In 2010, WHO 5<sup>th</sup> edition recommendations for semen analysis were published. Below is a table that compares WHO 5<sup>th</sup> to WHO 4<sup>th</sup> edition criteria and presents how a laboratory can report SQA-V generated clinical parameters per WHO 5<sup>th</sup> edition standards.

Update	WHO 5th	WHO 4th	Laboratory Guidance for SQA-V users
Sperm Motility	Total Motility (PR+NP) <b>Progressive Motility (PR)</b> Non-progressive motility(NP) Immotility (IM)	a, b, c, d	<b>Progressive Motility</b> is reported as one category in WHO 5 <sup>th</sup> ed. ("a" + "b"). Currently, motility is reported as a, b, c, d separately in the SQA-V. Report as usual and note on the FLEXIBLE REPORT that a+b = Progressive Motility based on WHO 5 <sup>th</sup> (see your distributor for this reporting software).
Post Vasectomy Sample Processing	In a PV sample, high speed centrifugation must be avoided. Scanning the undiluted 40 µl sample aliquot covered by 24 mm x 50 mm coverslip is recommended (p. 46).	Samples are centrifuged	When performing a POST VAS test, do not centrifuge the sample.
Morphology Criteria	Strict (Kruger et al., 1986; Menkveld et al., 1990; Coetzee et al., 1998). All borderline forms should be considered abnormal.	Strict (Menkveld et al., 1990). All borderline forms should be considered abnormal (Kruger et al., 1986; Menkveld et al., 1990).	To report Morphology per WHO 5 <sup>th</sup> ed. criteria, change the reference value in the V-Sperm to 4 (3.0-4.0) % cut-off for normal/abnormal. Use the FLEXIBLE REPORT with changed labeling (see your distributor for this reporting software).
<b>Semen Parameters and Reference Value Changes (only changes are noted)</b>			
Semen volume (ml)	1.5 (1.4-1.7)	2.0	To report clinical parameters per WHO 5 <sup>th</sup> ed., change the reference values in the V-Sperm to the new cut-offs for normal /abnormal. Use the FLEXIBLE REPORT to edit the WHO 3 <sup>rd</sup> or 4 <sup>th</sup> to 5 <sup>th</sup> ed. (see your distributor).
Total sperm number (10 <sup>6</sup> per ejaculate)	39 (33-46)	40	
Sperm concentration (10 <sup>6</sup> per ml)	15 (12-16)	20	
Total Motility (PR+NP) (%)	40 (38-42)	-	
Sperm morphology (normal forms, %)	4 (3.0-4.0)	15	

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