



Medical Electronic Systems SQA-V Reported Parameters		
SEMEN PARAMETER	SQA-V TEST NAME	DEFINITION
Sperm Concentration (Count)	SPERM CONC.	Total number for sperm cells per milliliter of sample – this includes live and dead cells.
Motility (grades a+b+c)	MOTILITY <a+b+c>	This is the % of the Sperm Concentration (above) that is moving.
Rapid Progressive Motility (grade a)	RAPID PROG. MOTILITY <a>	This is the % of the Sperm Concentration that is moving “Rapidly”.
Slow Progressive Motility (grade b)	SLOW PROG. MOTILITY 	This is the % of the Sperm Concentration that is moving in a direction, but “Slowly”.
Non Progressive Motility (grade c)	NONPROG. MOTILITY <c>	This is a % of the Sperm Concentration that is moving but not going anywhere (circles).
Immotility (grade d)	IMMOTILITY <d>	This is the % of the Sperm Concentration that is dead and not moving at all.
Morphology (% Normal Forms: WHO 3 rd '92)	MORPH. NORM FORMS WHO 3rd	This is the % of Normal shape/size sperm cells in the sample per the WHO 3 rd edition.
Morphology (% Normal Forms: WHO 4 th Strict '99)	MORPH. NORM WHO 4 th Strict	This is the % of Normal shape/size sperm cells in the sample per the WHO 4 th edition.
Motile Sperm Concentration	MSC	Total number of motile cells per milliliter of sample (like motility above, but NOT a %).
Progressively Motile Sperm Concentration (grade a)	PMSC <a>	Total number of “rapidly moving” motile cells per milliliter of sample.
Progressively Motile Sperm Concentration (grade b)	PMSC 	Total number of “slow moving” motile cells per milliliter of sample.
Functional Sperm Concentration	FSC	This is the concentration of sperm that are progressively motile and have normal morphology (the “champs”).
Velocity (Average path velocity – VAP)	VELOCITY	Speed of the fastest moving cells in the sample – measured in microns per second.
Sperm Motility Index	SMI	A “quick reference” parameter developed by MES. Anything over 80 = a good sample.
Total Sperm Number	SPERM #	This is the total number of sperm in the sample (Sperm Concentration X Volume)
Total Motile Sperm	MOT. SPERM	This is the total number of motile sperm in the sample (MSC X Volume)
Total Progressively Motile Sperm	PROG. SPERM	This is the total number of progressively motile sperm in the sample (PMSC X Volume)
Total Functional Sperm	FUNC. SPERM	This is the total number of functional sperm in the sample (FSC X Volume)