



SPERRMOLYZER

Computer Assisted Semen Analysis utilizes latest technology of machine vision and image processing techniques for the clinical assessment of sperm motility, morphology, vitality and DNA fragmentation.

Based on the sperm test standards of the WHO 5th criteria (2010), the system can analyze the characteristics of the sperm comprehensively and generates accurate parameters to show sperms' quality. The whole procedure is fast and provides several and important information that are vital to current scientific basis for the male reproductive ability.



















what's new?

MiraLab introduces the all new and innovative SpermoLyzer microscope. Creative head with built-in digital camera & temperature controller.



SPERRMOLYZER®

SpermoLyzer is the world's most advanced, reliable and cost effective CASA.

Fast, accurate and objective results for sperm analysis can be obtained for any Pathology and Andrology laboratories.



- * All in one solution.
- * Reliable, accurate, homogeneous and objective results.
- * Powerful yet flexible.
- * Fast, easy and intuitive user interface.

Main Modules:

- * Count and Motility
- * Morphology
- * Vitality
- * DNA Fragmentation
- * Follows WHO 5th edition strict criteria.
- * Automatic comment generating according to the results.
- * Creative constant-temperature operation desk
- * handy on-screen virtual grid function
- * Robust database with incremental backup and restore.
- * Generating of historical report.
- * Stats for researchers and institutions.
- * Option for making a soft copy of the patient reports along with motility tracks and images.
- * Very easy and only one-time calibration.
- * Customized reports with custom colors
- * Multi user system with different level of privileges.
- * Multilingual interface (English, French, Italian, Russian, Chinese...etc)



NO COST PER TEST FOR MOTILITY MODULE

Spermolyzer Metal Slide is a reusable single chamber to analyze Sperm Concentration and Quantitative assessment of Sperm Motility.

Main Modules:

Motility /

- * Motility for different velocities and kinematic parameters (VCL, VSL, VAP, MAD, ALH, BCF, LIN, WOB, STR).
- * Ability to delete non sperm detected objects.
- * Compatible with reusable and disposable slides.
- * Smart analysis for detecting irregular movement of sperms.
- * Multi selection/deselection of objects for accurate results.
- * Automatic threshold detection to easily catch all sperms in a given track.
- * Option to print two track images in report



Morphology /

- * Auto detection of head and neck defects
- * Morphological and morphometric parameters.
- * Auto calculation of the important TZI, SDI and MAI indices.
- * Ability to add, delete and edit sperm vertices easily and interactively.
- * Showing all sperm properties (shape and size).
- * Option to print up to 4 images in report along with images of defect/normal sperms.

Vitality /

- * Easy and cost effective staining.
- * Using bright field microscope.
- * Fast analysis with the ability to add, delete and edit any object detected.
- * Option to print two images in report.



DNA Fragmentation:

- * Using the SCD (Sperm Chromatin Dispersion) method.
- * Fast analysis with the ability to add, delete and edit any object detected.
- * Classification of sperms according to halo size.
- * Calculation of the important DFI parameter.
- * Option to print two images in report.

Other Features of Spermolyzer software:

- Automatic interpretation and generating of appropriate comments according to the patient results.
- Generating of custom reports like Urine, Stool, CBC and Bone marrow with any captured images using the system digital camera and microscope.
- Burn soft-copy of patients reports along with free track of live spermatozoa.





MiraLab Andrology Line:

Andrology lab workflow will be far easy and practical with the help of the specifically developed instruments and accessories for all sperm function tests with regards to their functional and ergonomic needs. The instruments are developed with the in-vivo temperature environment of natural processes in mind where ever needed giving systematic approach and quality results.



Warmer for semen specimen:

Semen specimen warmer is a temperature control system which is ergonomically designed to give ease of work and specimen handling. The system has heater & sensor programmed to attain & maintain 37°C. It has very high accuracy with ± 0.20C.



Warmer for DNA Fragmentation Test.:

DNA fragmentation test warmer is a dual temperature control system, designed to expose the agarose tubes at 70°C or at 37°C in separate blocks of instrument. The two blocks for two different temperatures can be used simultaneously.

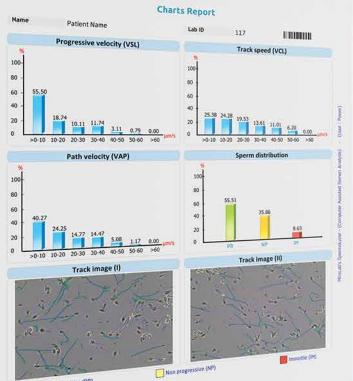
You can thereby cut off the hassle included in conventional method and do the work in ease in just one instrument.

Also, Its ergonomics allows user to handle each tube without disturbing others.



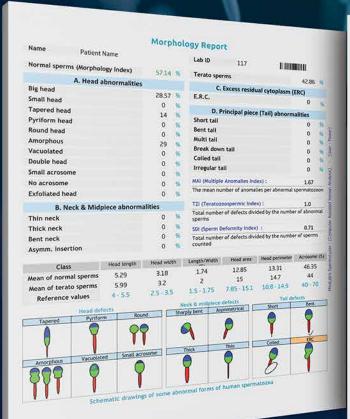


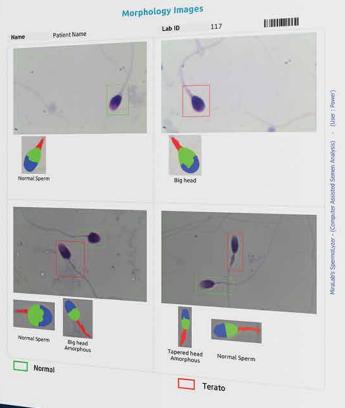
Name	Patient Name		Case no	2	01711022			
Age	35		Date	0	2/11/2017			
Lab ID	117		Ref. by					
	Phy	sical Properties						
Abstinence		4 2 - 5 days		10	0 -			
Collection		Masturbation at lab						
Volume		4 >= 1.5 ml		80				
рН		7	7 >= 7.2		- 55.51			
Color		Grey Opalescent		40	121	35.86		
Odor		Normal						
Viscosity		Moderate		20	-		8.63	
Liquefaction time		25	15 - 60 min.		PR	NP	IM	
iquefaction State		Complete			r.n.	MP	11-1	
		Te	est Result					
Test		Result	esult		Reference values			
Concentration		96.44	96.44 >= 15 million/ml					
Total sperm count		385.76 >= 3		= 39 milli	on/ejaculate	9 /		
Progressive motility (PR)		55.51 >= 32		= 32 %				
Totale motility (PR+NP)		91.37 >=40		=40 %				
Morphology index		57.14 >= 4		= 4 %				
Vitality		72.22	72.22 >= 5					
		Aggluti	ination grade					
Agglutination	on	Nil						
Agglutination grade		÷						
Non-specifi	c Aggregation	Nil						
		Other Cells						
White blood cells		< 5 /H.P.F						
Red blood cells		< 5 /H.P.F						
Spermatogenic cells		/HPF						
Epithelial cells		/HPF						
Norma	al seminal prof	ile HO. strict criteria for co		nd morpho	logy.			

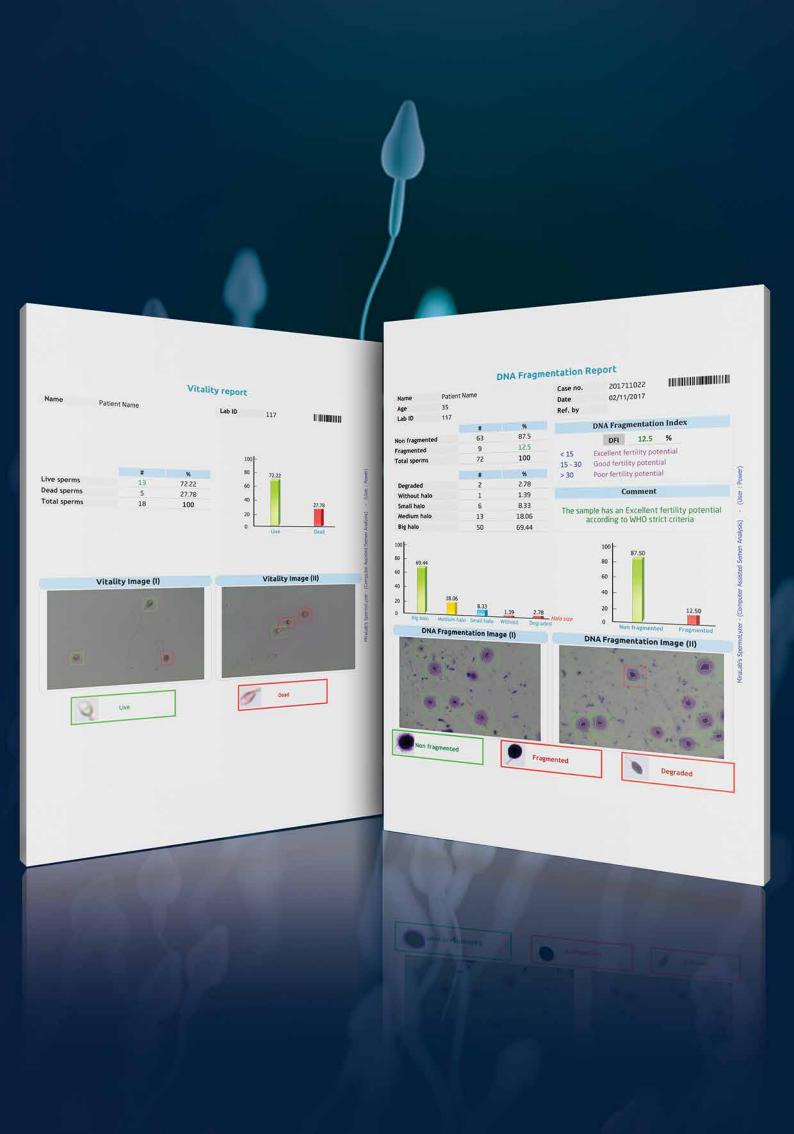


Progressive motility (PR)

		Motili	ty report		e annumi III	
Name Patient Name			Lab ID	117	Minimum	
		Dynamic p Conc. (million/ml)	arameters (I)	er (million)	Percentage (%)	
	Hty (PR) (NP) motility (PR) Spx	96.44 88.12 53.53 34.58 8.32	385 352 214 138 33.	.76 .48 .12 .32 .28 a large circle regard	100 91.37 55.51 35.86 8.63	
	minotile (IM) No		ng the head, or when	only a flagellar bea	t can be observed.	
		Dynamic pa	arameters (II)			
ACL (µm/s) AAD (*) LIN (%)	23.85 VSL (µm/s) 25.42 ALH (µm) 58.25 WOB (%)		13.88 3.82 76.2	VAP (µm/s) BCF (Hz) STR (%)	18.18 2.42 76.42	
VCL Curvilinear velocity		VSL Straight tine velocity		VAP Aver	70.42	
MATI Meet Ingular degree		ALH Amplitude of to WOS Wobble (VAP/V		ent BCF Beat		
	Diagram of	sperm tracks and ve		VSL VCL VAP ALH J MAD Head displi		







We developed MiraStain and MeraKit. series. Thay are ready to use reagents which facilitate all Spermolyzer's Sperm Function Tests







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