

TESTING LABORATORY:
 MEDICAL ELECTRONIC SYSTEMS
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LABORATORY DIRECTOR:
 DR. BILL ROUDEBUSH, PHD, HCLD
 CLIA ID NUMBER: 05D2315673
 CAP NUMBER: 9710818

AUTOMATED SEMEN ANALYSIS TEST REPORT

ORDER INFORMATION

ORDER ID	MES-10311
TRANSPORT KIT ID	123456789
ORDER PHYSICIAN	Dr. Spock
PHYSICIAN PHONE	+1 (123) 456-7894
PHYSICIAN MAIL	email@email.com
PHYSICIAN LICENCE	1000001579

PATIENT INFORMATION

FIRST NAME	JOHN
LAST NAME	DOE
PATIENT ID	12121212
PATIENT AGE	25
BIRTH DATE	7/15/2000
SEX	MALE

SAMPLE INFORMATION

SAMPLE ID	1000001579	TEST RUN BY	Administrator
TEST TYPE	TRANSPORTED	CRITERIA	WHO 6TH
COLLECTED DATE / TIME	5/20/2025 07:08	SAMPLE TESTED	DILUTED
RECEIVED DATE / TIME	5/21/2025 09:18	OPTIONAL 1	NA
TEST DATE / TIME	5/21/2025 09:32	OPTIONAL 2	NA
APPEARANCE	Clear / White / Grey		

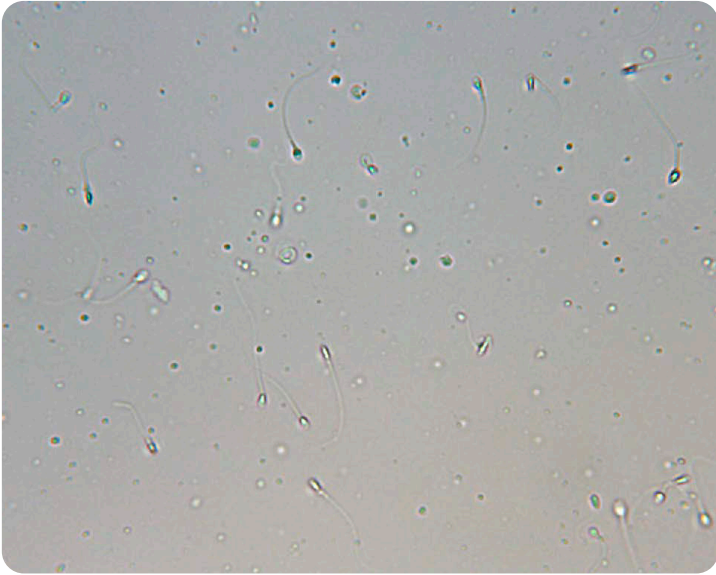
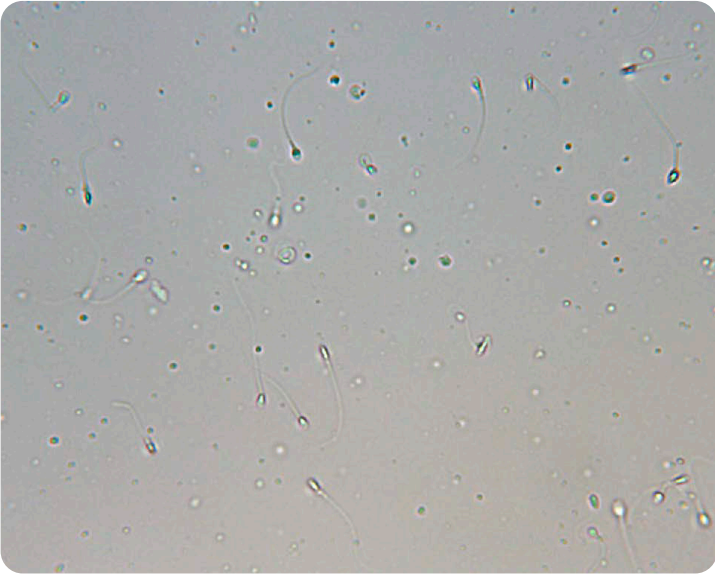
PARAMETERS	RESULT	REF. VALUE	STATUS
VOLUME (ml)	2.77	>= 1.4	OK
DEBRIS / ROUND CELLS	NONE/FEW		
CONCENTRATION (M/ml)	112.9	>= 16	OK
MOTILITY (%)	33	>= 42	LOW
PROGRESSIVE (%)	24	>= 30	LOW
RAPIDLY PROGRESSIVE (%)	19		
SLOWLY PROGRESSIVE (%)	5		
NON-PROGRESSIVE (%)	9		
IMMOTILE (%)	67		
MORPH. NORMAL FORMS (%)	2	>= 4	LOW
FUNCTIONAL SPERM CONC. (M/ml)	1.4		
VELOCITY (mic/sec)	43		
VITALITY (LIVE, %)	87	>= 54	OK
DNA FRAGMENTATION INDEX DFI (%)	26.0	< 30	OK

AUTOMATED SEMEN ANALYSIS TEST REPORT

TOTALS	RESULT	REF. VALUE	STATUS
MOTILE SPERM CONC. (M/ml)	37.2	=1.4	OK
PROG. MOTILE SPERM CONC. (M/ml)	27.0	=16	OK
RAPID PR MOTILE SPERM CONC. (M/ml)	21.4	=42	LOW
SLOW PR MOTILE SPERM CONC. (M/ml)	5.6	=30	LOW
SPERM # (M/volume)	312.6	>=39	OK
MOTILE SPERM (M/volume)	103.0	<=20	HIGH
PROG. MOTILE SPERM (M/volume)	74.8	=4	OK
FUNCTIONAL SPERM (M/volume)	3.9	=54	LOW
MORPH. NORMAL SPERM (M/volume)	6.3	<30	OK

COMMENTS

CAPTURED IMAGES



VIEW VIDEO OF THE SAMPLE

<https://mes-labview.com/results/DFI-482719>

VITALITY TEST REPORT

PARAMETER	RESULT	REF. VALUE	STATUS	COLOR	ANALYSIS CHART
LIVE (%)	97	>=54	OK	<div></div>	<div>LIVE 97%</div> <div></div> <div></div> <div>DEAD 3%</div>
DEAD (%)	3			<div></div>	
Vitality testing measures the % of live sperm by assessing membrane integrity, giving a direct indicator of the sample's living sperm population. Immotile sperm are not always dead, and vitality identifies the proportion of sperm that are alive at the time of assessment, regardless of motility.					



IMAGE 5/21/2025 09:44 VITALITY

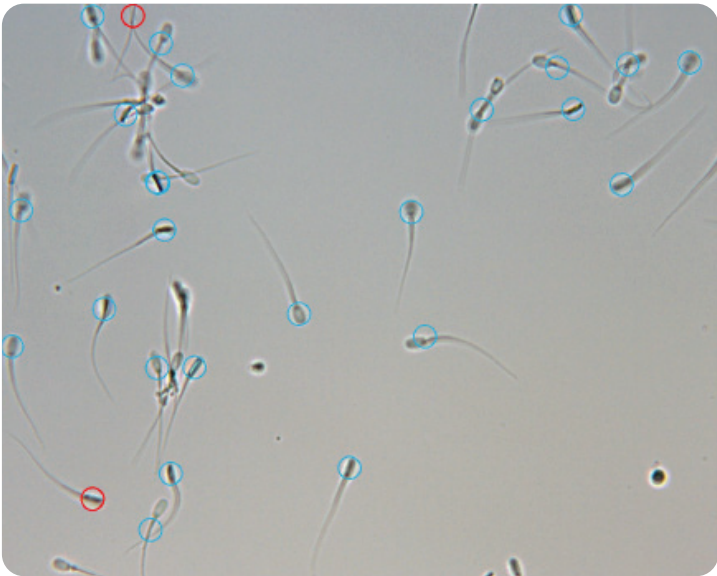


IMAGE 5/21/2025 09:44 VITALITY

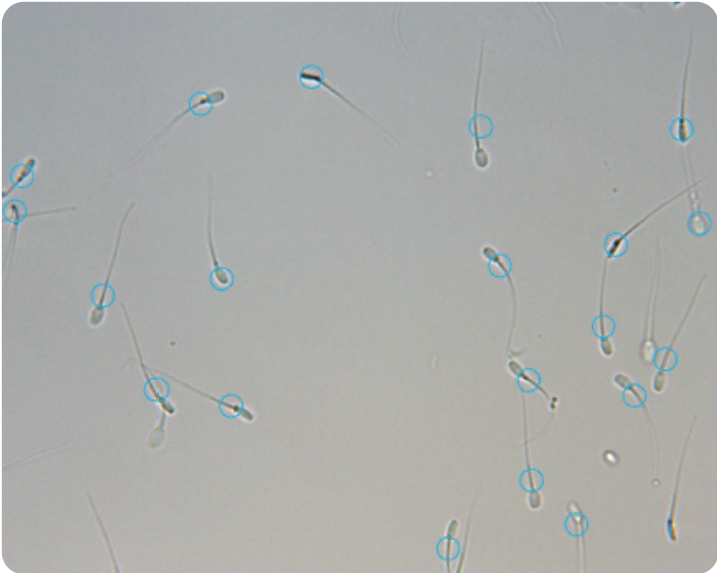


IMAGE 5/21/2025 09:44 VITALITY

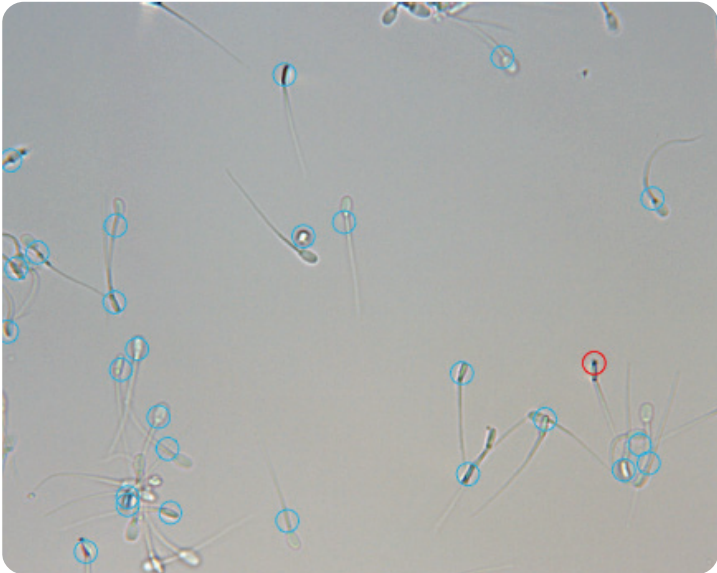


IMAGE 5/21/2025 09:44 VITALITY

DNA FRAGMENTATION TEST REPORT

PARAMETERS	RESULT	COLOR	ANALYSIS CHART
DNA FRAGMENTATION	15%		
LARGE HALO	6		
MEDIUM HALO	66		
SMALL HALO	27		
NO HALO	30		
NO HALO – DEGRADED	50		
SPERM COUNTED	273		

REFERENCE RANGES & SCD NOTES

NORMAL: ≤15% — Conducive to healthy fertilization. IUI or IVF may be considered.

BORDERLINE: 15–30% — Some fragmentation; consider evaluation; IVF may be considered.

ABNORMAL: ≥30% — Likely to impact fertility; ICSI often recommended.

Sperm DNA Fragmentation Index (SDFI) was assessed using the SCD (Sperm Chromatin Dispersion) method which identifies the presence of single and double-strand breaks. It measures the overall fragmentation by observing the “halo” or lack thereof, which forms after a denaturation testing process. A lack of a clear halo indicates DNA damage. The SQA-Vision system classifies sperm with fragmented DNA according to WHO 6th Edition 5-Category standards:

LARGE: The halo width is similar to or larger than the minor diameter of the sperm core.

MEDIUM: The halo size is between that of a large and a small halo.

SMALL: The halo width is similar to or smaller than one-third of the minor diameter of the sperm core.

NO HALO: No halo can be seen.

NO HALO-DEGRADED: No halo is seen, and the core is irregularly or weakly stained,

NOTE: Sperm with large or medium halos are normal; those with no halos, no halos (degraded) , or small halos are fragmented.

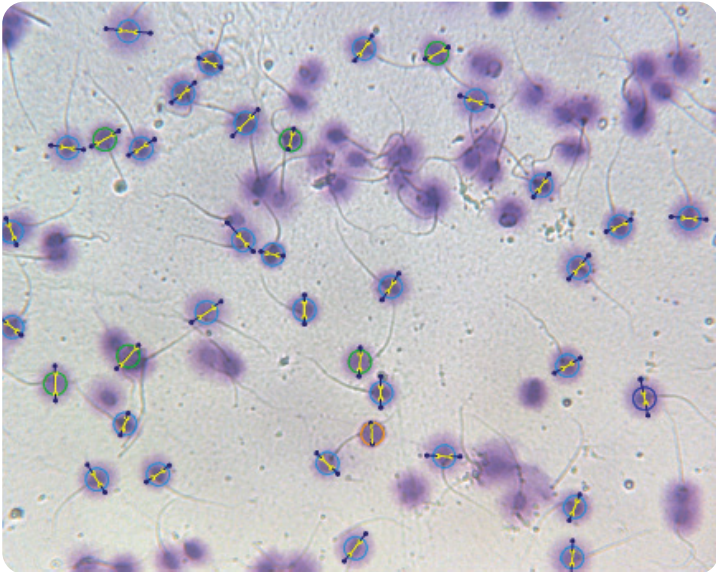


IMAGE 5/21/2025 09:37 DNA FRAGMENTATION

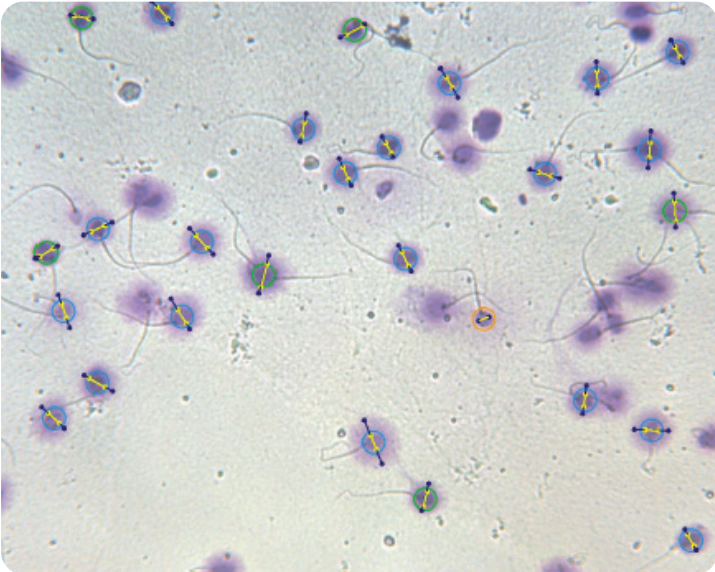


IMAGE 5/21/2025 09:37 DNA FRAGMENTATION

DNA FRAGMENTATION TEST REPORT

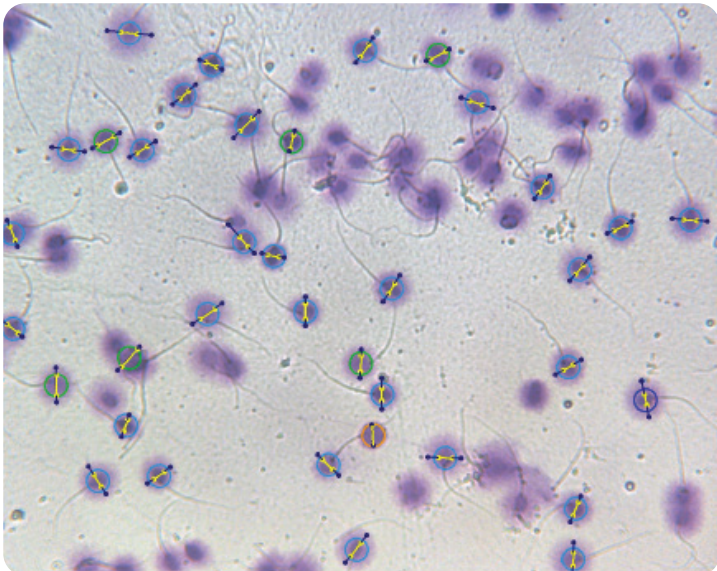


IMAGE 5/21/2025 09:37 DNA FRAGMENTATION

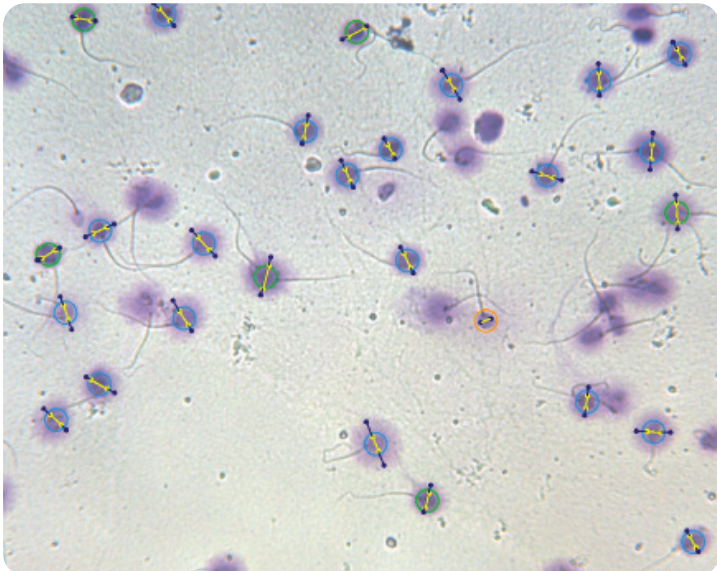


IMAGE 5/21/2025 09:37 DNA FRAGMENTATION

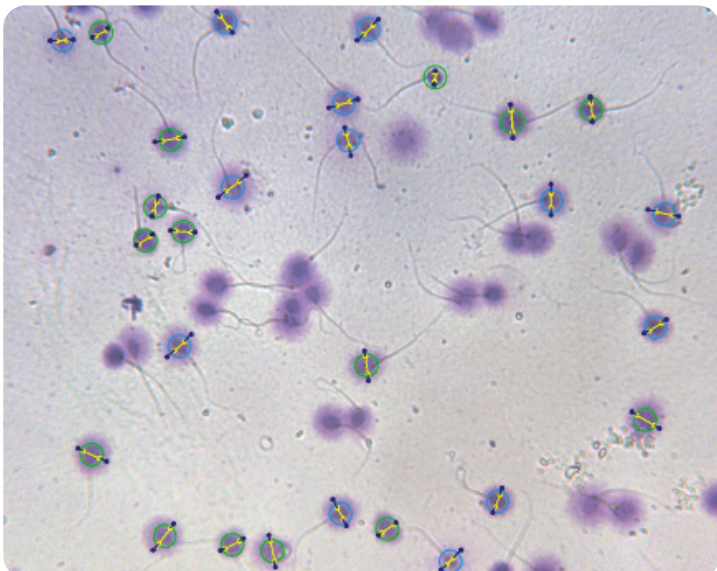


IMAGE 5/21/2025 09:37 DNA FRAGMENTATION

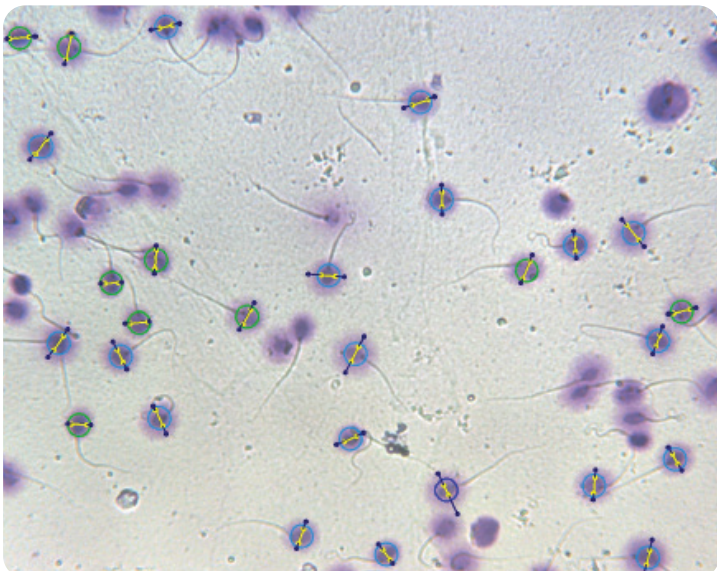


IMAGE 5/21/2025 09:37 DNA FRAGMENTATION