

Aimee Raupp

Semen Analysis Parameters

WHO vs Functional Range

Parameter	Parameter	Parameter
Volume	≥1.5 mL	≥2.0–5.0 mL
Concentration	≥15 million sperm/mL	≥35–50 million/mL
Total Count	≥39 million per ejaculate	≥80–120 million per ejaculate
Motility (Progressive)	≥32% progressive motility	≥50–60% progressive motility
Total Motility	≥40% (progressive + non-progressive)	≥60–70% total motility
Morphology (Strict)	≥4% normal forms (Kruger strict criteria)	≥8–15% normal forms
Vitality	≥58% live sperm	≥75–80% live sperm

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pH	≥7.2	7.2–8.0
Leukocytes (WBCs)	<1 million/mL	<1 million/mL
DNA Fragmentation	No WHO standard; <30% generally acceptable	<15–20% DNA fragmentation index (DFI)

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