

I. Key Parameter:

Parameter	Result	Reference range of WHO 5 th
pH	7.8	≥ 7.2
Concentration	222.9 M/ml	≥ 15 M/ml
Normal Morphology	5%	≥ 4%
Total Motility	94% (MSC:209.5 M/ml)	≥ 40%
Progressive (PR)	71% (PMSC:158.2 M/ml)	≥ 32%

Note:

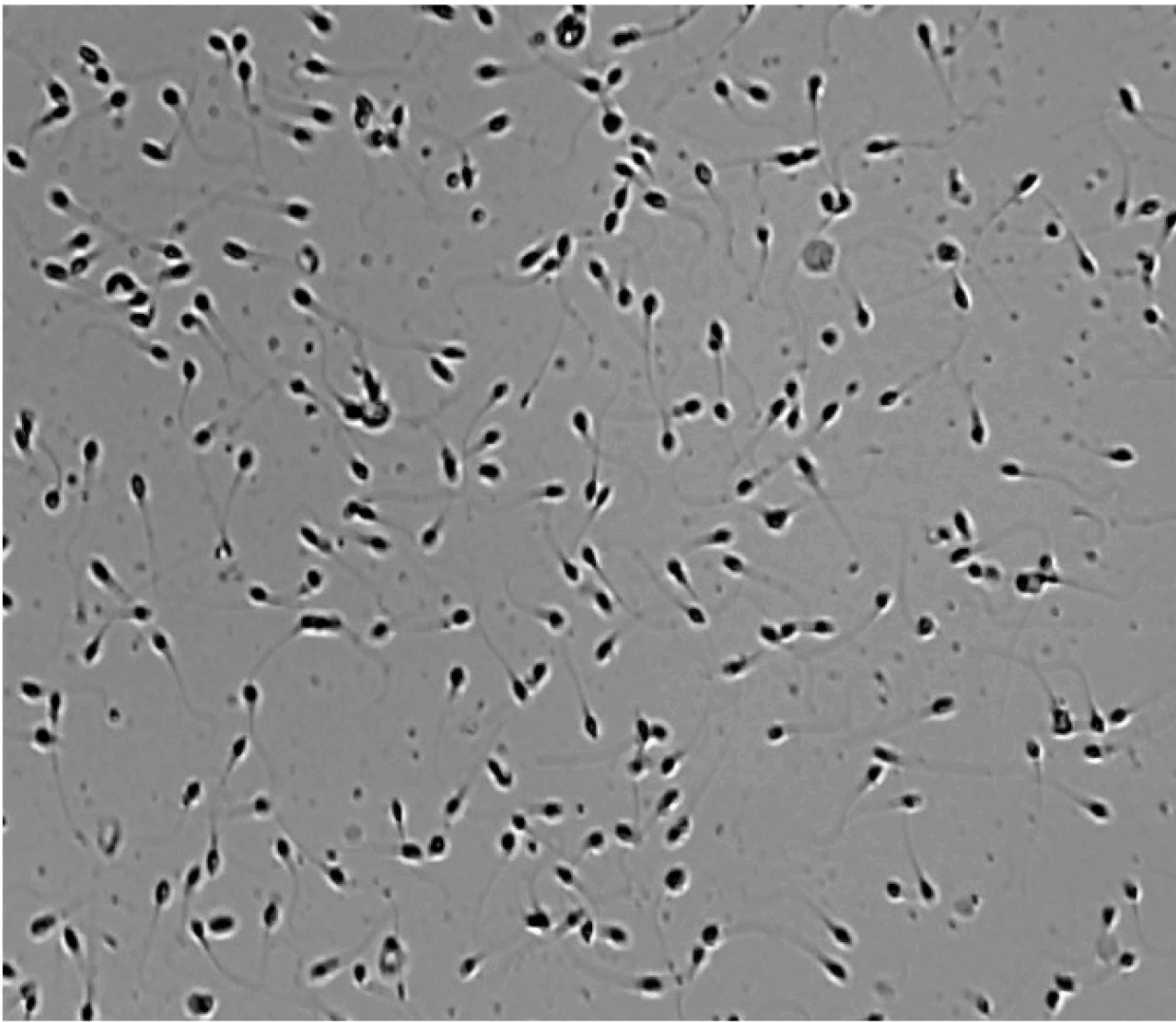
- MSC: Motile Sperm Concentration.
- PMSC: Progressive Motile Sperm Concentration.

II. Detail Parameter:

Total Motility: 94 %							
Progressive (PR): 71 % Non-Progressive (NP): 23 % Immotility (IM) : 6 %			Motile (VAP ≥ 25µm/s): 42 % Local Motile (5µm/s ≤ VAP < 25µm/s): 29 %				
(µm/s)			(%)			(µm, Hz)	
VAP (Mean)	22 µm/s		LIN (Mean)	59 %		ALH (Mean)	2.05 µm
VSL (Mean)	18 µm/s		STR (Mean)	76 %		BCF (Mean)	5.65 Hz
VCL (Mean)	29 µm/s		WOB (Mean)	74 %			
VAP Distribution			STR Distribution			ALH Distribution	
[0-5µm/s]	7		[0-10%]	5		[0-2µm]	55
[5-15µm/s]	29		[10-20%]	1		[2-4µm]	42
[15-25µm/s]	20		[20-30%]	2		[4-6µm]	3
[25-35µm/s]	25		[30-40%]	7		[6-8µm]	0
[35-45µm/s]	18		[40-50%]	4		[8-10µm]	0
[45+µm/s]	1		[50-60%]	6		[10-12µm]	0
Total	100 %		[60-70%]	9		[12+µm]	0
			[70-80%]	8		Total	100 %
VSL Distribution			[80-90%]	17			
[0-5µm/s]	23		[90-100%]	41			
[5-15µm/s]	23		Total	100 %			
[15-25µm/s]	22						
[25-35µm/s]	22						
[35-45µm/s]	10						
[45+µm/s]	0						
Total	100 %						
Normal Morphology: 5 %							
Assessed parameters		Mean		Abnormal Ratio			
Head Length:		5.47 µm		60.37 %			
Head Width:		3.27 µm		40.16 %			
Head Perimeter:		13.51 µm		43.35 %			
Head Area:		13.67 µm²		42.82 %			
Tail Length:		16.06 µm		16.15 %			

III. Other Reference Parameter:

Parameter	Result	Reference range of WHO 5 th
Volume	3.0ml	≥ 1.5ml
Color	Pale Yellow	Greyish White to Pale Yellow
Liquefaction Time	30 ~ 60 min	≤ 60 min
Total Sperm number	668.7M	≥ 39M



Inspector Signature: _____

IV. Diagnose & Comment:

Dr. Signature: _____