



PARTICIPANT STATISTICS

SECOND SHIPMENT 2019

ANDROLOGY - SPERM MOTILITY

Sperm Motility, %	Specimen 6					Specimen 7				No. of Labs
	Line No	Range & Type	Mean	SD		Range & Type	Mean	SD		
Initial Grouping by Reagent										
MicroCell	1	45 - 74	P	59.5	4.5	65 - 108	P	86.7	5.0	17
Makler	2	44 - 73	P	58.5	7.9	64 - 107	P	85.8	5.1	341
Cell-Vu	3	44 - 74	P	58.9	6.9	64 - 106	P	85.1	4.6	15
Initial Grouping by Sensitivity or Principle										
All Manual Chambers	4	44 - 73	P	58.6	7.7	64 - 107	P	85.8	5.1	373
Total Population										
Whole Population	5	44 - 73	P	58.6	7.7	64 - 107	P	85.8	5.1	379

Forward Progression, % of Total	Specimen 6					Specimen 7				No. of Labs
	Line No	Range & Type	Mean	SD		Range & Type	Mean	SD		
Initial Grouping by Reagent										
Makler	1	38 - 63	P	50.3	11.4	55 - 92	P	73.9	13.8	184
Cell-Vu	2	17 - 41	C	29.0	20.2	45 - 74	P	59.4	24.2	7
Initial Grouping by Sensitivity or Principle										
All manual counting chambers	3	37 - 62	P	49.5	12.5	55 - 92	P	73.5	14.4	190
Total Population										
Whole Population	4	37 - 61	P	48.9	13.6	55 - 92	P	73.3	14.6	196

Forward Progression, % of Motile	Specimen 6					Specimen 7				No. of Labs
	Line No	Range & Type	Mean	SD		Range & Type	Mean	SD		
Initial Grouping by Reagent										
Makler	1	62 - 103	P	82.1	16.0	65 - 108	P	86.4	10.7	138
Cell-Vu	2	41 - 69	P	55.3	24.4	55 - 92	P	73.8	21.8	5
Initial Grouping by Sensitivity or Principle										
All manual counting chambers	3	61 - 102	P	81.4	16.9	64 - 108	P	86.0	11.4	142
Total Population										
Whole Population	4	61 - 101	P	81.0	17.3	65 - 107	P	86.0	11.4	148

Forward Progression Semi-Quantitative

Method	Specimen 6					Specimen 7				
	Makler	Cell-Vu	MicroCell	All Labs	Flagging	Makler	Cell-Vu	MicroCell	All Labs	Flagging
1 (Non motile)				0	***				0	***
2 (Motile, but not progressive)	1	9		10					0	
3 (Progressive, but sluggish)	4	91	6	107		3	43	4	53	
4 (Good progressive motility)		48		51		2	105	3	116	
0 (No motility)				0	***				0	***
1 (Poor or sluggish)		6		6			1		1	***
2 (Moderate)	3	31	2	37		1	15		16	
3 (Good)		18		18		2	29	1	33	
4 (Vigorous, rapid)				0	***		11		11	
0 (No movement)				0	***				0	***
1 (Movement, none forward)				0	***				0	***
1 (Occasional movement of a few sperm)				0	***				0	***
2 (Slow, undirected)		1		1					0	***
2 (Slow, directed forward movement)		9	2	11			1	1	2	***
3- (Fast, but undirected movement)		5		5			1		1	
3 (Fast, directed forward movement)		11		11			18	1	19	
3+ (Very fast forward movement)		1		1			7		7	
4 (Extremely fast forward movement)				0	***		1		1	***
Total Population	8	230	10	258		8	232	10	260	

Correct responses are defined as those reflecting agreement among 80% or more of all participants or referees. Unacceptable responses are indicated by "*****" on the Flagging line of each specimen.