



**PARTICIPANT STATISTICS**

**SECOND SHIPMENT 2017**

**ANDROLOGY - SPERM MOTILITY**

Sperm Motility, %	Line No	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
<b>Initial Grouping by Reagent</b>										
Makler	1	34 - 58	C	46.1	10.0	59 - 99	P	79.0	7.9	296
Cell-Vu	2	36 - 60	P	48.1	8.4	60 - 100	P	80.3	6.8	38
MicroCell	3	33 - 57	C	45.4	9.2	60 - 100	P	79.9	8.3	14
<b>Initial Grouping by Sensitivity or Principle</b>										
All Manual Chambers	4	34 - 58	C	46.3	9.8	59 - 99	P	79.2	7.8	348
<b>Total Population</b>										
Whole Population	5	34 - 58	C	46.3	9.8	59 - 99	P	79.2	7.8	351

Forward Progression, % of Total	Line No	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
<b>Initial Grouping by Reagent</b>										
Makler	1	23 - 47	C	35.0	13.1	54 - 90	P	71.7	11.9	165
Cell-Vu	2	34 - 58	C	46.1	10.3	58 - 96	P	76.9	9.0	17
<b>Initial Grouping by Sensitivity or Principle</b>										
All manual counting chambers	3	24 - 48	C	36.1	13.3	54 - 90	P	72.2	11.7	182
<b>Total Population</b>										
Whole Population	4	24 - 48	C	35.9	13.6	54 - 90	P	71.9	12.2	188

Forward Progression, % of Motile	Line No	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
<b>Initial Grouping by Reagent</b>										
Makler	1	58 - 97	P	77.7	18.3	67 - 112	P	89.3	10.1	114
Cell-Vu	2	47 - 79	P	62.8	21.6	63 - 104	P	83.5	16.4	11
<b>Initial Grouping by Sensitivity or Principle</b>										
All manual counting chambers	3	57 - 95	P	76.4	19.1	67 - 111	P	88.8	11.0	125
<b>Total Population</b>										
Whole Population	4	57 - 95	P	76.3	18.8	67 - 111	P	88.8	10.8	131

**Forward Progression Semi-Quantitative**

Method	Specimen 1					Specimen 2				
	Makler	Cell-Vu	MicroCell	All Labs	Flagging	Makler	Cell-Vu	MicroCell	All Labs	Flagging
1 (Non motile)					***					***
2 (Motile, but not progressive)	9	1	4	14		1			1	***
3 (Progressive, but sluggish)	106	11	4	123		9		4	13	
4 (Good progressive motility)	10	1		11		115	13	4	134	
0 (No motility)					***					***
1 (Poor or sluggish)	13	1	1	15						***
2 (Moderate)	48	3	2	54		3			3	
3 (Good)	4	1		5		39	4	3	47	
4 (Vigorous, rapid)					***	23	1		24	
0 (No movement)					***					***
1 (Movement, none forward)					***					***
1 (Occasional movement of a few sperm)	1			1	***					***
2 (Slow, undirected)	1			1						***
2 (Slow, directed forward movement)	18	4		22						***
3- (Fast, but undirected movement)										***
3 (Fast, directed forward movement)	3			3		13	3		16	
3+ (Very fast forward movement)					***	8	1		9	
4 (Extremely fast forward movement)					***	2			2	
<b>Total Population</b>	213	22	11	249		213	22	11	249	

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.