



**PARTICIPANT STATISTICS**

**ANDROLOGY - QUANTITATIVE**

**SECOND SHIPMENT 2019**

	Sperm Count, liquid sample	Stat Line	Range & Type	Specimen 6			Specimen 7			No. of Labs	
				Mean	SD	Range & Type	Mean	SD			
<b>Initial Grouping by Reagent</b>											
Cell-Vu		1	0 - 10	C	2.8	2.6	14 - 28	C	20.8	8.6	12
Makler		2	0 - 9	C	1.5	1.1	21 - 40	P	30.5	10.8	203
Micro Cell		3	0 - 8	C	1.3	0.6	18 - 33	P	25.1	3.9	51
Hemocytometer		4	0 - 8	C	1.4	0.6	22 - 41	P	31.4	7.7	70
Mid Atlantic/Leja		5	0 - 8	C	1.4	0.7	17 - 32	P	24.8	4.8	28
Mid Atlantic/Leja, CASA		6	0 - 8	C	1.4	0.6	18 - 33	P	25.7	4.6	12
Micro Cell, CASA		7	0 - 8	C	1.0	0.0	13 - 27	C	20.0	7.5	14
<b>Total Population</b>											
Whole Population		8	0 - 9	C	1.5	1.1	20 - 37	P	28.6	9.6	401
	Sperm Count, video	Stat Line	Range & Type	Specimen 6			Specimen 7			No. of Labs	
<b>Initial Grouping by Reagent</b>											
Makler		1	0 - 11	C	3.5	1.2	6 - 20	C	13.2	3.0	255
Hemocytometer		2	8 - 22	C	14.6	2.5	3 - 17	C	9.9	2.6	44
<b>Initial Grouping by Sensitivity or Principle</b>											
All manual counting chambers		3	0 - 13	C	5.5	4.5	6 - 20	C	12.6	3.2	308
<b>Total Population</b>											
Whole Population		4	0 - 13	C	5.5	4.5	6 - 20	C	12.7	3.3	310
	Sperm Morphology, Traditional Slide	Stat Line	Range & Type	Specimen 6			Specimen 7			No. of Labs	
<b>Initial Grouping by Method and Dye</b>											
Kruger, strict & Diff Quik		1	0 - 9	S	3.3	1.7	0 - 14	S	5.4	2.7	63
Kruger, strict & Wright Giemsa based		2	0 - 10	S	3.2	2.4	0 - 16	S	5.6	3.4	15
WHO (4th Edition) & Wright Giemsa based		3	0 - 13	S	5.8	2.4	1 - 11	C	5.9	1.5	13
WHO (5th Edition) & Diff Quik		4	0 - 8	S	2.9	1.8	0 - 13	S	5.4	2.6	40
WHO (5th Edition) & MidAtlantic STAT III		5	0 - 7	C	2.3	1.3	0 - 13	S	5.1	2.5	19
WHO (5th Edition) & Spermac		6	0 - 7	C	2.4	1.5	0 - 9	C	3.9	1.6	17
WHO (5th Edition) & Wright Giemsa based		7	0 - 12	S	4.3	2.6	0 - 19	S	6.8	4.0	25
<b>Initial Grouping by Method</b>											
Kruger, strict		8	0 - 9	S	3.3	1.8	0 - 15	S	5.6	3.1	101
WHO (3rd Edition)		9	1 - 18	S	9.5	2.7	0 - 39	S	15.1	7.8	12
WHO (4th Edition)		10	0 - 13	S	5.7	2.5	0 - 17	S	7.0	3.3	30
WHO (5th Edition)		11	0 - 9	S	3.1	2.0	0 - 14	S	5.3	3.0	115
<b>Initial Grouping by Sensitivity or Principle</b>											
Original WHO derived		12	1 - 18	S	9.5	2.7	0 - 38	S	15.5	7.6	13
Strict		13	0 - 11	S	3.8	2.3	0 - 15	S	5.9	3.2	131
Other		14	0 - 9	S	3.1	2.1	0 - 15	S	5.4	3.1	121
<b>Total Population</b>											
Whole Population		15	0 - 11	S	3.7	2.5	0 - 18	S	6.1	4.0	267
	Sperm Morphology, Digital Slide	Stat Line	Range & Type		Mean	SD	Range & Type		Mean	SD	No. of Labs
<b>Initial Grouping by Method</b>											
Kruger, strict		1	0 - 11	C	4.0	2.5	0 - 14	C	7.2	3.8	140
WHO (5th Edition)		2	0 - 11	C	4.1	2.2	0 - 14	C	7.3	3.3	170
Other		3	0 - 11	C	4.3	2.7	1 - 15	C	7.5	2.6	11
WHO (3rd Edition)		4	5 - 19	C	12.4	4.6	14 - 28	C	20.9	5.0	15
WHO (4th Edition)		5	0 - 13	C	6.4	3.5	3 - 17	C	9.9	4.6	14
<b>Initial Grouping by Sensitivity or Principle</b>											
Strict		6	0 - 11	C	4.2	2.7	0 - 14	C	7.4	3.9	154
Other		7	0 - 11	C	4.1	2.2	0 - 14	C	7.3	3.2	181
Original WHO derived		8	6 - 20	C	12.6	4.5	14 - 28	C	20.8	4.7	18
<b>Total Population</b>											
Whole Population		9	0 - 12	C	4.5	3.1	1 - 15	C	7.7	4.1	355

Sperm Viability	Stat Line	Range & Type	Specimen 6			Specimen 7				No. of Labs
			Mean	SD	Range & Type	Mean	SD			
<b>Traditional Slide</b>										
<b>Initial Grouping by Method</b>										
WHO (5th Edition)	1	46 - 68	P	56.9	9.1	8 - 28	C	18.1	7.3	84
<b>Total Population</b>										
Whole Population	2	46 - 69	P	57.2	9.3	8 - 28	C	17.9	7.1	91
<b>Digital Slide</b>										
<b>Initial Grouping by Method</b>										
WHO (5th Edition)	1	42 - 63	P	52.7	5.6	4 - 24	C	13.5	3.6	149
Other	2	40 - 60	C	49.5	4.4	3 - 23	C	13.2	2.8	24
<b>Total Population</b>										
Whole Population	3	42 - 63	P	52.2	5.5	3 - 23	C	13.4	3.5	173

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.