PARTICIPANT STATISTICS

ANDROLOGY - QUANTITATIVE

FIRST SHIPMENT 2018

Sperm Count, liquid sample

	Stat Line	Range & Type		Specimen 1 Mean	SD	Range & Type		Specimen 2 Mean	SD	No. of Labs
Initial Grouping by Reagent										
Makler	1	11 - 25	C	17.8	5.8	0 - 9	C	1.5	0.7	221
Micro Cell	2	8 - 22	C	15.3	3.9	0 - 8	C	1.2	0.4	51
Mid Atlantic/Leja, CASA	3	10 - 24	C	16.9	5.7	0 - 9	C	1.6	0.6	16
Hemocytometer	4	14 - 28	C	20.7	10.8	0 - 8	C	1.4	0.6	78
Mid Atlantic/Leja	5	8 - 22	C	14.6	3.3	0 - 8	C	1.0	0.5	29
Cell-Vu	6	8 - 22	C	15.1	5.8	0 - 9	C	1.5	1.2	18
Micro Cell, CASA	7	8 - 22	C	14.5	4.0	0 - 8	C	1.3	0.4	15
Total Population										
Whole Population	8	11 - 25	C	17.5	6.9	0 - 8	C	1.4	0.7	442

Sperm Count, video

	Stat Line	Range & Type		Specimen 1 Mean	SD	Range & Type		Specimen 2 Mean	SD	No. of Labs
Initial Grouping by Reagent										
Makler	1	36 - 66	P	51.1	14.6	81 - 150	P	115.4	36.2	200
Hemocytometer	2	63 - 116	P	89.5	42.4	109 - 202	P	155.5	73.2	40
Initial Grouping by Sensitivity or Principle										
All manual counting chambers	3	40 - 75	P	57.7	26.4	86 - 159	P	122.4	47.9	250
Total Population										
Whole Population	4	40 - 75	P	57.7	26.4	86 - 159	P	122.4	47.9	250

Sperm Morphology, Traditional Slide

	Stat Line	Range & Type		Specimen 1 Mean	SD	Range & Type		Specimen 2 Mean	SD	No. of Labs
Initial Grouping by Method and Dye										
Kruger, strict & Diff Quik	1	0 - 14	S	6.0	2.7	0 - 9	S	2.7	1.9	86
Kruger, strict & Spermac	2	0 - 14	S	6.4	2.4	0 - 8	C	3.1	1.6	10
Kruger, strict & Wright Giemsa based	3	0 - 16	S	6.7	3.0	0 - 11	S	3.9	2.2	29
WHO (4th Edition) & Other	4	1 - 12	S	6.3	1.9	0 - 14	S	7.1	2.3	10
WHO (4th Edition) & Wright Giemsa based	5	2 - 12	C	7.3	1.0	0 - 12	S	6.1	2.1	13
WHO (5th Edition) & Diff Quik	6	0 - 20	S	7.6	4.0	0 - 11	S	3.6	2.6	28
WHO (5th Edition) & Other	7	0 - 11	S	4.2	2.3	0 - 8	S	2.3	1.9	12
WHO (5th Edition) & Spermac	8	0 - 17	S	6.3	3.5	0 - 8	S	2.8	1.7	15
WHO (5th Edition) & Wright Giemsa based	9	0 - 22	S	8.7	4.6	0 - 15	S	4.3	3.7	27
Initial Grouping by Method										
Kruger, strict	10	0 - 16	S	6.4	3.1	0 - 9	S	3.1	2.1	141
WHO (3rd Edition)	11	0 - 33	S	13.4	6.5	0 - 21	S	7.9	4.4	12
WHO (4th Edition)	12	0 - 17	S	8.0	3.1	0 - 13	S	6.2	2.4	30
WHO (5th Edition)	13	0 - 20	S	7.2	4.1	0 - 12	S	3.5	2.9	94
Initial Grouping by Sensitivity or Principle										
Original WHO derived	14	0 - 32	S	13.7	6.2	0 - 22	S	8.5	4.5	13
Strict	15	0 - 16	S	6.7	3.2	0 - 11	S	3.7	2.5	170
Other	16	0 - 20	S	7.2	4.1	0 - 12	S	3.5	2.8	96
Total Population										
Whole Population	17	0 - 19	S	7.1	3.9	0 - 12	S	3.8	2.9	283

Sperm Morphology, Digital Slide

	Stat Line	Range & Type		Mean	SD	Range & Type		Mean	SD	No. of Labs
Initial Grouping by Method										
WHO (5th Edition)	1	1 - 15	C	7.9	4.2	0 - 11	C	4.4	2.7	111
WHO (4th Edition)	2	7 - 21	C	13.6	5.5	0 - 14	C	6.5	4.2	12
Kruger, strict	3	1 - 15	C	7.7	3.4	0 - 11	C	4.0	2.6	166
WHO (3rd Edition)	4	17 - 31	P	24.1	5.3	9 - 23	C	15.9	6.4	14
Initial Grouping by Sensitivity or Principle										
Other	5	1 - 15	C	8.0	4.3	0 - 12	C	4.5	2.8	114
Strict	6	1 - 15	C	8.1	3.9	0 - 11	C	4.2	2.8	178
Original WHO derived	7	17 - 31	P	23.8	4.9	9 - 23	C	16.0	6.1	19
Total Population										
Whole Population	8	2 - 16	C	8.6	5.0	0 - 12	C	4.8	3.8	314

Sperm Viability	Stat Line	Specimen 1 Range & Type		Mean	SD	Specimen 2 Range & Type		Mean	SD	No. of Labs
Traditional Slide										
Initial Grouping by Method										
WHO (5th Edition)	1	3 - 23	C	13.3	9.4	57 - 86	P	71.4	6.3	83
Total Population										
Whole Population	2	3 - 23	C	13.4	9.3	57 - 85	P	71.1	6.8	92
Digital Slide										
Initial Grouping by Method										
WHO (5th Edition)	1	0 - 14	C	3.5	4.7	56 - 85	P	70.6	6.4	149
Other	2	0 - 13	C	2.7	3.7	54 - 82	P	68.1	5.4	28
Total Population										
Whole Population	3	0 - 13	C	3.3	4.6	56 - 84	P	70.2	6.3	178

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.