



PARTICIPANT STATISTICS

ANDROLOGY - QUANTITATIVE

SECOND SHIPMENT 2018

Sperm Count, liquid sample			Specimen 1		Specimen 2			No. of Labs		
Stat Line	Range & Type		Mean	SD	Range & Type	Mean	SD			
Initial Grouping by Reagent										
Hemocytometer	1	6 - 20	C	13.3	27.2	24 - 44	P	33.8	57.5	79
Makler	2	2 - 16	C	9.2	5.0	16 - 30	C	22.8	10.7	219
Micro Cell	3	1 - 15	C	8.3	2.7	13 - 27	C	19.5	4.9	52
Mid Atlantic/Leja	4	1 - 15	C	7.6	3.0	11 - 25	C	17.6	4.8	31
Cell-Vu	5	0 - 13	C	6.4	3.6	8 - 22	C	14.8	6.3	12
Mid Atlantic/Leja, CASA	6	2 - 16	C	8.8	2.7	14 - 28	C	21.4	6.4	18
Micro Cell, CASA	7	0 - 14	C	7.0	1.9	12 - 26	C	19.1	4.5	15
Total Population										
Whole Population	8	3 - 17	C	9.9	15.0	18 - 32	P	25.0	40.1	440
Sperm Count, video										
Stat Line	Range & Type		Mean	SD	Range & Type	Mean	SD	No. of Labs		
Initial Grouping by Reagent										
Makler	1	2 - 16	C	8.6	7.8	19 - 35	P	26.6	23.7	224
Hemocytometer	2	14 - 28	C	20.9	17.0	23 - 43	P	32.8	17.7	41
Initial Grouping by Sensitivity or Principle										
All manual counting chambers	3	4 - 18	C	10.5	10.6	19 - 36	P	27.4	22.7	275
Total Population										
Whole Population	4	4 - 18	C	10.5	10.6	19 - 36	P	27.4	22.7	276
Sperm Morphology, Traditional Slide										
Stat Line	Range & Type		Mean	SD	Range & Type	Mean	SD	No. of Labs		
Initial Grouping by Method and Dye										
Kruger, strict & Diff Quik	1	0 - 13	S	4.5	2.8	0 - 15	S	5.4	3.2	85
Kruger, strict & Spermac	2	0 - 10	C	5.2	1.3	0 - 14	S	5.7	2.7	11
Kruger, strict & Wright Giemsa based	3	0 - 14	S	5.0	2.9	0 - 12	S	5.0	2.4	26
WHO (4th Edition) & Other	4	0 - 13	S	6.4	2.1	1 - 11	S	6.0	1.7	11
WHO (4th Edition) & Wright Giemsa based	5	2 - 12	C	7.1	1.2	0 - 15	S	6.9	2.8	12
WHO (5th Edition) & Diff Quik	6	0 - 17	S	4.2	4.3	0 - 14	S	6.0	2.8	25
WHO (5th Edition) & Other	7	0 - 9	S	2.9	2.1	0 - 16	S	5.1	3.6	15
WHO (5th Edition) & Spermac	8	0 - 11	S	3.5	2.6	0 - 10	S	4.3	1.9	15
WHO (5th Edition) & Wright Giemsa based	9	0 - 20	S	5.2	4.8	0 - 29	S	8.2	6.9	25
Initial Grouping by Method										
Kruger, strict	10	0 - 13	S	4.6	2.8	0 - 16	S	5.6	3.5	146
WHO (3rd Edition)	11	0 - 40	S	13.3	8.9	0 - 38	S	14.7	7.6	11
WHO (4th Edition)	12	0 - 15	S	7.4	2.6	0 - 18	S	7.6	3.5	31
WHO (5th Edition)	13	0 - 16	S	4.1	3.8	0 - 19	S	5.8	4.5	96
Initial Grouping by Sensitivity or Principle										
Original WHO derived	14	0 - 39	S	13.6	8.6	0 - 37	S	14.9	7.3	12
Strict	15	0 - 14	S	5.1	3.0	0 - 17	S	6.0	3.6	177
Other	16	0 - 28	S	5.1	7.6	0 - 31	S	6.8	8.0	99
Total Population										
Whole Population	17	0 - 22	S	5.4	5.6	0 - 24	S	6.6	5.9	290
Sperm Morphology, Digital Slide										
Stat Line	Range & Type		Mean	SD	Range & Type	Mean	SD	No. of Labs		
Initial Grouping by Method										
WHO (4th Edition)	1	2 - 16	C	9.3	4.2	4 - 18	C	11.4	5.3	12
Kruger, strict	2	0 - 12	C	5.3	3.6	0 - 14	C	7.2	4.9	167
WHO (5th Edition)	3	0 - 13	C	5.7	3.5	0 - 14	C	7.0	3.8	126
WHO (3rd Edition)	4	14 - 28	C	21.0	10.5	16 - 30	C	23.3	9.4	13
Initial Grouping by Sensitivity or Principle										
Strict	5	0 - 13	C	5.6	3.8	1 - 15	C	7.5	5.1	179
Other	6	0 - 13	C	5.9	4.1	0 - 14	C	7.3	4.8	129
Original WHO derived	7	16 - 30	C	23.1	14.2	18 - 34	P	25.9	14.2	17
Total Population										
Whole Population	8	0 - 14	C	6.6	6.3	1 - 15	C	8.4	7.1	326

	Sperm Viability	Stat Line	Range & Type	Specimen 1			Specimen 2				No. of Labs
				Mean	SD	Range & Type	Mean	SD			
Traditional Slide											
Initial Grouping by Method											
WHO (5th Edition)		1	17 - 37	C	27.2	11.0	57 - 85	P	70.7	14.3	95
Total Population											
Whole Population		2	17 - 37	C	27.2	10.8	57 - 85	P	71.0	13.9	104
Digital Slide											
Initial Grouping by Method											
WHO (5th Edition)		1	22 - 42	C	32.2	7.1	53 - 79	P	66.2	7.5	150
Other		2	21 - 41	C	31.2	5.5	53 - 80	P	66.8	6.0	25
Total Population											
Whole Population		3	22 - 42	C	32.0	6.9	53 - 80	P	66.3	7.3	175

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.