



Therapeutic Drugs

Name	Line No.	Specimen 6			Specimen 7			Specimen 8			Specimen 9			Specimen 10			No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD	Range & Type	Mean	SD	Range & Type	Mean	SD	Range & Type	Mean	SD	
Acetaminophen																	
Initial Grouping by Reagent and Instrument																	
Ortho Vitros & Ortho Vitros 3600, 5600	1	16 - 27	P 21.7	0.4	55 - 92	P 73.5	0.9	72 - 119	P 95.5	0.7	76 - 126	P 100.7	0.9	46 - 77	P 61.9	1.0	11
Siemens Dimension Flex & Siemens Dimension EXL	2	21 - 35	P 28.3	0.9	48 - 80	P 64.1	1.3	62 - 104	P 83.2	1.6	66 - 109	P 87.4	1.6	41 - 68	P 54.7	1.2	39
Initial Grouping by Reagent																	
Ortho Vitros	3	16 - 27	P 21.6	0.5	55 - 92	P 73.4	0.8	72 - 120	P 95.6	0.7	76 - 126	P 100.7	0.8	46 - 77	P 61.9	0.9	15
Siemens Dimension Flex	4	21 - 35	P 28.3	1.1	48 - 80	P 64.0	1.3	62 - 104	P 83.0	1.6	66 - 109	P 87.4	1.5	41 - 68	P 54.7	1.1	44
Initial Grouping by Sensitivity or Principle																	
Other spectrophotometric	5	16 - 26	P 20.9	1.5	54 - 90	P 71.7	4.0	71 - 118	P 94.1	3.4	74 - 124	P 99.2	3.4	45 - 75	P 60.2	3.8	18
Enzyme-multiplied IA/EMIT	6	21 - 34	P 27.4	3.1	48 - 80	P 63.6	1.9	62 - 103	P 82.4	2.6	65 - 108	P 86.7	2.8	41 - 68	P 54.2	2.0	48
Total Population																	
Whole Population	7	19 - 31	P 24.8	4.5	49 - 82	P 65.4	5.1	64 - 107	P 85.3	6.9	67 - 112	P 89.8	7.6	42 - 69	P 55.5	3.9	74
Carbamazepine																	
Initial Grouping by Reagent and Instrument																	
Siemens Dimension Flex & Siemens Dimension EXL	1	3.4 - 5.6	P 4.48	0.21	6.9 - 11.5	P 9.21	0.38	8.6 - 14.4	P 11.49	0.45	9.0 - 15.0	P 11.98	0.46	5.9 - 9.9	P 7.91	0.28	14
Initial Grouping by Reagent																	
Siemens Dimension Flex	2	3.3 - 5.6	P 4.46	0.24	6.9 - 11.4	P 9.16	0.49	8.6 - 14.3	P 11.42	0.59	8.9 - 14.9	P 11.93	0.6	5.9 - 9.9	P 7.88	0.35	18
Initial Grouping by Sensitivity or Principle																	
Enzyme-multiplied IA/EMIT	3	3.4 - 5.7	P 4.54	0.25	6.9 - 11.6	P 9.24	0.47	8.7 - 14.5	P 11.62	0.67	9.0 - 15.0	P 11.99	0.57	6.0 - 10.1	P 8.06	0.46	25
Total Population																	
Whole Population	4	3.3 - 5.4	P 4.34	0.54	6.6 - 11.1	P 8.84	0.82	8.3 - 13.9	P 11.11	0.97	8.7 - 14.5	P 11.57	0.9	5.8 - 9.6	P 7.71	0.76	52
Digoxin																	
Initial Grouping by Reagent and Instrument																	
Ortho Vitros & Ortho Vitros 3600, 5600	1	0.7 - 1.1	C 0.94	0.07	1.1 - 1.6	P 1.37	0.11	1.3 - 2.0	P 1.68	0.13	1.4 - 2.1	P 1.71	0.16	1.0 - 1.5	P 1.25	0.13	11
Siemens Dimension Flex & Siemens Dimension EXL	2	0.7 - 1.1	C 0.87	0.06	1.4 - 2.0	P 1.69	0.09	1.7 - 2.5	P 2.09	0.09	1.8 - 2.6	P 2.2	0.1	1.2 - 1.8	P 1.5	0.08	37
Initial Grouping by Reagent																	
Ortho Vitros	3	0.7 - 1.1	C 0.91	0.11	1.1 - 1.6	P 1.35	0.12	1.3 - 2.0	P 1.66	0.13	1.4 - 2.0	P 1.69	0.14	1.0 - 1.5	P 1.24	0.13	14
Siemens Dimension Flex	4	0.7 - 1.1	C 0.86	0.06	1.4 - 2.0	P 1.69	0.09	1.7 - 2.5	P 2.08	0.09	1.8 - 2.7	P 2.21	0.11	1.2 - 1.8	P 1.5	0.08	46
Initial Grouping by Sensitivity or Principle																	
Other spectrophotometric	5	0.7 - 1.1	C 0.86	0.09	1.3 - 1.9	P 1.61	0.17	1.6 - 2.4	P 1.99	0.2	1.7 - 2.5	P 2.09	0.23	1.2 - 1.7	P 1.44	0.14	67
Luminometric/CLIA	6	0.8 - 1.2	C 0.99	0.11	1.4 - 2.2	P 1.81	0.14	1.8 - 2.7	P 2.21	0.17	1.9 - 2.8	P 2.33	0.21	1.3 - 1.9	P 1.61	0.15	16
Turbidimetric/PETINIA	7	0.7 - 1.1	C 0.88	0.04	1.3 - 1.9	P 1.57	0.14	1.5 - 2.3	P 1.92	0.19	1.6 - 2.4	P 2.02	0.2	1.1 - 1.7	P 1.43	0.09	12
Total Population																	
Whole Population	8	0.7 - 1.1	C 0.89	0.1	1.3 - 2.0	P 1.64	0.18	1.6 - 2.4	P 2.02	0.21	1.7 - 2.6	P 2.13	0.25	1.2 - 1.8	P 1.47	0.15	105
Gentamicin																	
Initial Grouping by Reagent and Instrument																	
Siemens Dimension Flex & Siemens Dimension EXL	1	1.2 - 2.0	P 1.61	0.09	3.5 - 5.9	P 4.69	0.09	4.7 - 7.8	P 6.23	0.19	4.9 - 8.2	P 6.53	0.14	3.0 - 5.0	P 3.96	0.1	14
Initial Grouping by Reagent																	
Siemens Dimension Flex	2	1.2 - 2.0	P 1.59	0.11	3.5 - 5.8	P 4.68	0.11	4.7 - 7.8	P 6.21	0.2	4.9 - 8.1	P 6.5	0.17	3.0 - 4.9	P 3.94	0.13	16
Initial Grouping by Sensitivity or Principle																	
Other spectrophotometric	3	1.4 - 2.3	P 1.84	0.22	3.9 - 6.5	P 5.22	0.54	5.2 - 8.6	P 6.87	0.74	5.4 - 9.0	P 7.2	0.75	3.3 - 5.5	P 4.4	0.48	13
Enzyme-multiplied IA/EMIT	4	1.2 - 2.0	P 1.63	0.12	3.6 - 6.0	P 4.8	0.27	4.8 - 8.0	P 6.38	0.38	5.0 - 8.4	P 6.72	0.54	3.0 - 5.0	P 4.03	0.24	21
Total Population																	
Whole Population	5	1.3 - 2.1	P 1.7	0.19	3.7 - 6.2	P 4.98	0.43	4.9 - 8.2	P 6.59	0.6	5.2 - 8.7	P 6.93	0.67	3.1 - 5.2	P 4.19	0.39	39

Lithium

Initial Grouping by Reagent

Siemens Dimension Flex	1	0.3 - 0.9	C 0.55	0.05	1.1 - 1.7	C 1.43	0.04	1.5 - 2.2	P 1.84	0.08	1.6 - 2.3	P 1.94	0.08	0.9 - 1.5	C 1.2	0.04	12
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Initial Grouping by Sensitivity or Principle

Other, not flame equivalent	2	0.3 - 0.9	C 0.57	0.08	1.0 - 1.6	C 1.26	0.16	1.3 - 1.9	P 1.58	0.2	1.3 - 2.0	P 1.65	0.22	0.8 - 1.4	C 1.1	0.13	10
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Flame-equivalent methods	3	0.3 - 0.9	C 0.55	0.05	1.1 - 1.7	C 1.42	0.05	1.5 - 2.2	P 1.82	0.1	1.5 - 2.3	P 1.92	0.1	0.9 - 1.5	C 1.19	0.05	13
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Total Population

Whole Population	4	0.3 - 0.9	C 0.57	0.06	1.0 - 1.6	C 1.34	0.13	1.4 - 2.1	P 1.71	0.18	1.4 - 2.1	P 1.79	0.2	0.8 - 1.4	C 1.14	0.1	27
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Phenobarbital

Initial Grouping by Reagent and Instrument

Siemens Dimension Flex & Siemens Dimension EXL	1	7 - 11	C 9.2	0.8	20 - 30	P 24.8	1.3	27 - 40	P 33.2	1.7	28 - 42	P 34.8	1.9	17 - 25	P 21.0	1.2	13
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Initial Grouping by Reagent

Siemens Dimension Flex	2	7 - 11	C 9.3	0.9	20 - 30	P 24.9	1.3	26 - 40	P 33.1	1.6	28 - 42	P 34.7	1.8	17 - 25	P 21.0	1.2	15
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Initial Grouping by Sensitivity or Principle

Enzyme-multiplied IAV/EMIT	3	7 - 11	C 9.3	0.9	20 - 30	P 24.8	1.3	26 - 39	P 32.8	1.5	28 - 41	P 34.5	1.7	17 - 25	P 20.7	1.3	23
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Total Population

Whole Population	4	7 - 11	C 9.3	0.8	20 - 29	P 24.5	1.3	26 - 39	P 32.3	1.7	27 - 41	P 34.1	1.8	16 - 25	P 20.6	1.2	37
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Phenytoin

Initial Grouping by Reagent and Instrument

Siemens Dimension Flex & Siemens Dimension EXL	1	7 - 11	P 9.0	0.8	14 - 23	P 18.6	0.7	17 - 29	P 23.3	1.0	18 - 31	P 24.4	1.0	12 - 20	P 15.8	1.0	25
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Initial Grouping by Reagent

Ortho Vitros	2	7 - 11	P 9.1	0.3	14 - 23	P 18.2	0.6	17 - 28	P 22.7	1.0	17 - 29	P 23.2	1.2	12 - 20	P 16.2	0.6	10
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Siemens Dimension Flex	3	7 - 11	P 9.0	0.7	14 - 23	P 18.7	0.8	18 - 29	P 23.4	1.1	18 - 31	P 24.5	1.1	12 - 20	P 15.9	1.0	30
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Initial Grouping by Sensitivity or Principle

Other spectrophotometric	4	7 - 11	P 9.0	0.6	13 - 21	P 17.2	1.1	16 - 26	P 21.2	1.6	17 - 27	P 22.0	1.5	12 - 19	P 15.4	1.1	27
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Enzyme-multiplied IAV/EMIT	5	7 - 11	P 8.9	0.8	14 - 23	P 18.3	1.4	17 - 28	P 22.8	1.8	18 - 30	P 24.0	1.6	12 - 20	P 15.6	1.2	39
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Total Population

Whole Population	6	7 - 11	P 9.1	0.8	13 - 22	P 17.8	1.4	17 - 28	P 22.4	2.2	17 - 29	P 23.3	1.9	12 - 20	P 15.7	1.3	83
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Salicylates - mg/dL

Initial Grouping by Reagent and Instrument

Siemens Dimension Flex & Siemens Dimension EXL	1	6.1 - 10.2	P 8.18	0.27	12.8 - 21.3	P 17.01	0.4	16.0 - 26.6	P 21.31	0.55	16.8 - 28.0	P 22.42	0.47	11.2 - 18.6	P 14.91	0.36	32
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Initial Grouping by Reagent

Ortho Vitros	2	7.6 - 12.7	P 10.13	0.45	14.5 - 24.2	P 19.37	1.07	17.5 - 29.1	P 23.31	1.25	18.2 - 30.3	P 24.2	1.34	13.0 - 21.7	P 17.39	0.85	12
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Siemens Dimension Flex	3	6.2 - 10.3	P 8.23	0.32	12.8 - 21.3	P 17.03	0.42	16.0 - 26.7	P 21.35	0.63	16.8 - 28.1	P 22.44	0.55	11.2 - 18.6	P 14.92	0.37	36
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Initial Grouping by Sensitivity or Principle

Other spectrophotometric	4	6.5 - 10.8	P 8.61	0.91	13.3 - 22.1	P 17.69	1.22	16.5 - 27.5	P 22.01	1.41	17.3 - 28.8	P 23.05	1.31	11.6 - 19.4	P 15.5	1.19	55
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Total Population

Whole Population	5	6.5 - 10.8	P 8.67	1.0	13.4 - 22.4	P 17.93	1.4	16.7 - 27.9	P 22.32	1.66	17.6 - 29.4	P 23.5	1.81	11.7 - 19.6	P 15.65	1.26	64
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Theophylline

Initial Grouping by Reagent

Siemens Dimension Flex	1	9 - 15	P 12.2	0.8	18 - 30	P 24.0	1.4	22 - 37	P 29.8	1.5	23 - 39	P 31.2	1.9	16 - 26	P 20.7	1.0	13
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Initial Grouping by Sensitivity or Principle

Enzyme-multiplied IAV/EMIT	2	9 - 15	P 12.3	0.8	18 - 30	P 23.8	1.5	22 - 37	P 29.4	1.8	23 - 38	P 30.8	2.4	16 - 26	P 20.7	1.0	16
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Total Population

Whole Population	3	9 - 15	P 12.3	0.8	18 - 30	P 23.7	1.4	22 - 37	P 29.6	2.7	23 - 39	P 30.9	2.8	15 - 26	P 20.6	1.1	31
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Tobramycin

Total Population

Whole Population	1	1.6 - 2.6	P 2.12	0.16	4.5 - 7.5	P 6.03	0.43	6.0 - 10.0	P 8.0	0.49	6.3 - 10.5	P 8.43	0.49	3.9 - 6.4	P 5.16	0.31	7
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Valproic Acid

Initial Grouping by Reagent and Instrument

Ortho Vitros & Ortho Vitros 3600, 5600	1	38 - 63	P 50.3	2.8	60 - 101	P 80.5	2.9	71 - 118	P 94.6	3.8	73 - 122	P 97.6	4.3	55 - 91	P 72.8	3.7	10
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Siemens Dimension Flex & Siemens Dimension EXL	2	33 - 55	P 44.1	2.9	53 - 88	P 70.1	1.9	62 - 104	P 83.2	3.2	65 - 108	P 86.5	2.6	48 - 79	P 63.6	1.8	17
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Initial Grouping by Reagent

Ortho Vitros	3	38 - 63	P 50.3	2.8	60 - 101	P 80.5	2.9	71 - 118	P 94.6	3.8	73 - 122	P 97.6	4.3	55 - 91	P 72.8	3.7	10
Siemens Dimension Flex	4	33 - 55	P 44.3	2.8	53 - 88	P 70.1	1.8	62 - 104	P 83.3	3.0	65 - 108	P 86.5	2.5	48 - 80	P 63.8	1.9	19
Initial Grouping bySensitivityor Principle																	
Other spectrophotometric	5	36 - 60	P 47.8	3.7	57 - 96	P 76.4	5.0	68 - 113	P 90.5	5.0	70 - 116	P 93.1	6.0	52 - 86	P 69.2	4.5	25
Enzyme-multiplied IAVEMIT	6	34 - 56	P 45.1	2.9	54 - 89	P 71.5	3.8	63 - 105	P 84.3	4.2	66 - 110	P 88.1	4.7	48 - 81	P 64.4	3.0	27
Total Population																	
Whole Population	7	35 - 58	P 46.1	3.8	55 - 92	P 73.3	5.0	65 - 108	P 86.8	5.5	67 - 112	P 89.9	5.9	50 - 83	P 66.2	4.4	67

Vancomycin

Initial Grouping byReagent and Instrument																	
Ortho Vitros & Ortho Vitros 3600, 5600	1	6 - 9	P 7.5	0.7	19 - 32	P 25.4	1.4	26 - 43	P 34.6	1.5	27 - 45	P 36.3	1.4	16 - 26	P 20.9	1.2	11
Siemens Dimension Flex & Siemens Dimension EXL	2	6 - 10	P 7.9	0.5	20 - 34	P 27.2	1.2	28 - 47	P 37.2	1.5	30 - 49	P 39.4	1.6	17 - 29	P 22.9	0.8	35
Initial Grouping byReagent																	
Ortho Vitros	3	6 - 9	P 7.5	0.6	19 - 32	P 25.4	1.3	26 - 43	P 34.5	1.4	27 - 45	P 36.3	1.3	16 - 26	P 20.9	1.1	13
Siemens Dimension Flex	4	6 - 10	P 7.8	0.5	20 - 34	P 27.1	1.2	28 - 47	P 37.2	1.5	29 - 49	P 39.3	1.6	17 - 29	P 22.8	0.8	38
Initial Grouping bySensitivityor Principle																	
Other spectrophotometric	5	6 - 10	P 7.8	1.0	20 - 34	P 27.0	2.7	28 - 46	P 36.7	3.5	29 - 48	P 38.6	3.8	17 - 28	P 22.1	2.0	26
Enzyme-multiplied IAVEMIT	6	6 - 9	P 7.6	0.8	20 - 33	P 26.6	1.8	27 - 45	P 36.2	2.8	29 - 48	P 38.4	2.6	17 - 28	P 22.1	1.7	46
Turbidimetric/PETINIA	7	6 - 9	P 7.5	0.8	21 - 34	P 27.4	1.9	28 - 46	P 37.1	2.5	29 - 49	P 39.1	2.3	17 - 29	P 22.8	1.5	10
Total Population																	
Whole Population	8	6 - 10	P 7.6	0.9	20 - 33	P 26.7	2.2	27 - 45	P 36.3	3.1	29 - 48	P 38.5	3.0	17 - 28	P 22.1	1.9	84