



Therapeutic Drugs

Name	Line No.	Specimen 1			Specimen 2			Specimen 3			Specimen 4			Specimen 5			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	38 - 63	P 50.7	0.8	8 - 13	P 10.0	0.0	65 - 109	P 87.1	1.1	95 - 158	P 126.5	1.5	8 - 13	P 10.0	0.0	10
Siemens Dimension Flex & Siemens Dimension EXL	2	36 - 60	P 47.7	1.1	0 - 3	C 0.7	0.9	59 - 98	P 78.3	1.5	91 - 151	P 120.9	1.8	15 - 25	P 19.8	1.3	37
Initial Grouping by Reagent																	
Ortho Vitros	3	38 - 63	P 50.5	0.8	7 - 12	C 9.2	2.0	65 - 109	P 86.9	1.1	95 - 158	P 126.1	1.5	7 - 12	C 9.3	1.5	15
Siemens Dimension Flex	4	36 - 60	P 47.7	1.1	0 - 3	C 0.7	0.9	59 - 98	P 78.4	1.5	91 - 152	P 121.2	1.9	15 - 25	P 19.7	1.4	42
Initial Grouping by Sensitivity or Principle																	
Other spectrophotometric	5	37 - 62	P 49.3	2.8	5 - 10	C 7.9	3.4	64 - 107	P 85.8	2.8	95 - 158	P 126.8	2.3	6 - 11	C 8.6	2.1	18
Enzyme-multiplied IA/EMIT	6	35 - 59	P 47.1	2.3	0 - 3	C 0.8	1.0	58 - 97	P 77.6	3.4	90 - 150	P 119.7	5.5	14 - 23	P 18.4	4.4	46
Total Population																	
Whole Population	7	35 - 59	P 47.3	3.0	0 - 5	C 2.9	3.8	60 - 99	P 79.5	5.6	91 - 152	P 121.9	9.5	11 - 19	P 15.1	6.0	71
Carbamazepine																	
Initial Grouping by Reagent and Instrument																	
Siemens Dimension Flex & Siemens Dimension EXL	1	4.7 - 7.8	P 6.28	0.28	2.5 - 4.1	P 3.31	0.17	7.1 - 11.8	P 9.47	0.38	10.3 - 17.2	P 13.79	0.52	2.3 - 3.9	P 3.1	0.16	14
Initial Grouping by Reagent																	
Siemens Dimension Flex	2	4.7 - 7.8	P 6.24	0.28	2.5 - 4.1	P 3.29	0.18	7.1 - 11.8	P 9.45	0.37	10.3 - 17.2	P 13.76	0.5	2.3 - 3.9	P 3.09	0.16	17
Initial Grouping by Sensitivity or Principle																	
Enzyme-multiplied IA/EMIT	3	4.7 - 7.9	P 6.31	0.35	2.5 - 4.1	P 3.32	0.2	7.2 - 11.9	P 9.55	0.49	10.4 - 17.4	P 13.91	0.68	2.4 - 3.9	P 3.14	0.2	22
Total Population																	
Whole Population	4	4.5 - 7.5	P 6.02	0.72	2.5 - 4.2	P 3.33	0.45	6.8 - 11.4	P 9.1	0.85	10.0 - 16.7	P 13.34	0.95	2.3 - 3.8	P 3.08	0.18	46
Digoxin																	
Initial Grouping by Reagent and Instrument																	
Ortho Vitros & Ortho Vitros 3600, 5600	1	0.9 - 1.4	P 1.17	0.07	0.2 - 0.6	C 0.4	0.0	1.2 - 1.8	P 1.48	0.06	1.6 - 2.4	P 1.97	0.12	0.8 - 1.2	C 0.95	0.09	11
Siemens Dimension Flex & Siemens Dimension EXL	2	1.0 - 1.6	P 1.3	0.08	0.6 - 1.0	C 0.76	0.07	1.5 - 2.2	P 1.87	0.08	2.1 - 3.2	P 2.64	0.09	0.5 - 0.9	C 0.73	0.06	35
Initial Grouping by Reagent																	
Ortho Vitros	3	1.0 - 1.4	P 1.19	0.11	0.2 - 0.6	C 0.42	0.08	1.2 - 1.8	P 1.49	0.1	1.6 - 2.4	P 2.01	0.16	0.8 - 1.2	C 0.95	0.1	14
Siemens Dimension Flex	4	1.0 - 1.6	P 1.31	0.08	0.6 - 1.0	C 0.76	0.08	1.5 - 2.2	P 1.87	0.09	2.1 - 3.2	P 2.65	0.11	0.5 - 0.9	C 0.74	0.07	43
Initial Grouping by Sensitivity or Principle																	
Other spectrophotometric	5	1.0 - 1.5	P 1.27	0.11	0.5 - 0.9	C 0.68	0.16	1.4 - 2.1	P 1.77	0.18	2.0 - 3.0	P 2.49	0.29	0.6 - 1.0	C 0.78	0.13	63
Luminometric/CLIA	6	1.2 - 1.8	P 1.48	0.13	0.6 - 1.0	C 0.82	0.08	1.6 - 2.4	P 1.98	0.16	2.2 - 3.2	P 2.69	0.27	0.7 - 1.1	C 0.87	0.1	15
Turbidimetric/PETINIA	7	1.0 - 1.5	P 1.22	0.06	0.6 - 1.0	C 0.82	0.1	1.3 - 2.0	P 1.68	0.17	1.8 - 2.8	P 2.3	0.2	0.5 - 0.9	C 0.73	0.1	11
Total Population																	
Whole Population	8	1.0 - 1.6	P 1.3	0.13	0.5 - 0.9	C 0.72	0.15	1.4 - 2.1	P 1.79	0.2	2.0 - 3.0	P 2.51	0.29	0.6 - 1.0	C 0.78	0.13	98
Gentamicin																	
Initial Grouping by Reagent and Instrument																	
Siemens Dimension Flex & Siemens Dimension EXL	1	2.3 - 3.8	P 3.01	0.14	0.5 - 0.9	P 0.71	0.13	4.0 - 6.6	P 5.31	0.14	6.2 - 10.4	P 8.31	0.19	0.6 - 1.0	P 0.78	0.12	14
Initial Grouping by Reagent																	
Siemens Dimension Flex	2	2.3 - 3.8	P 3.02	0.13	0.5 - 0.9	P 0.71	0.13	4.0 - 6.6	P 5.31	0.13	6.2 - 10.4	P 8.29	0.19	0.6 - 1.0	P 0.77	0.13	16
Initial Grouping by Sensitivity or Principle																	
Other spectrophotometric	3	2.5 - 4.1	P 3.31	0.29	0.7 - 1.2	P 0.93	0.09	4.2 - 7.0	P 5.63	0.55	6.4 - 10.7	P 8.54	0.78	0.7 - 1.1	P 0.89	0.1	12
Enzyme-multiplied IA/EMIT	4	2.3 - 3.8	P 3.06	0.15	0.6 - 0.9	P 0.75	0.14	4.0 - 6.7	P 5.35	0.21	6.3 - 10.5	P 8.38	0.41	0.6 - 1.0	P 0.79	0.12	20
Total Population																	
Whole Population	5	2.4 - 4.0	P 3.18	0.27	0.6 - 1.0	P 0.79	0.16	4.2 - 6.9	P 5.54	0.49	6.4 - 10.7	P 8.57	0.73	0.6 - 1.0	P 0.81	0.14	37

Lithium

Initial Grouping by Reagent

Siemens Dimension Flex	1	0.5 - 1.1	C 0.76	0.05	0 - 0.5	C 0.21	0.06	1.1 - 1.7	C 1.41	0.06	1.8 - 2.8	P 2.3	0.13	0 - 0.5	C 0.17	0.07	12
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Initial Grouping by Sensitivity or Principle

Flame-equivalent methods	2	0.5 - 1.1	C 0.76	0.05	0 - 0.5	C 0.22	0.07	1.1 - 1.7	C 1.4	0.07	1.8 - 2.7	P 2.28	0.15	0 - 0.5	C 0.18	0.08	13
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Total Population

Whole Population	3	0.5 - 1.1	C 0.75	0.08	0 - 0.5	C 0.2	0.05	1.0 - 1.6	C 1.32	0.13	1.7 - 2.5	P 2.07	0.32	0 - 0.5	C 0.18	0.06	24
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Phenobarbital

Initial Grouping by Reagent and Instrument

Siemens Dimension Flex & Siemens Dimension EXL	1	13 - 20	P 16.4	2.1	16 - 23	P 19.4	1.1	21 - 31	P 25.9	1.0	32 - 48	P 39.9	1.7	3 - 7	C 5.4	0.6	13
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Initial Grouping by Reagent

Siemens Dimension Flex	2	13 - 20	P 16.4	1.9	16 - 23	P 19.5	1.1	21 - 31	P 25.9	1.0	32 - 48	P 39.7	1.7	3 - 7	C 5.4	0.6	15
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Initial Grouping by Sensitivity or Principle

Enzyme-multiplied IA/EMIT	3	13 - 19	P 15.9	1.8	15 - 23	P 18.9	1.5	20 - 30	P 25.4	1.3	31 - 46	P 38.7	2.4	3 - 7	C 5.3	0.6	22
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Total Population

Whole Population	4	12 - 19	P 15.5	1.8	15 - 22	P 18.6	1.8	20 - 30	P 25.1	1.7	30 - 46	P 38.0	2.9	4 - 8	C 5.5	0.6	34
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Phenytoin

Initial Grouping by Reagent and Instrument

Siemens Dimension Flex & Siemens Dimension EXL	1	9 - 15	P 12.2	0.9	6 - 10	P 7.6	0.6	14 - 24	P 19.0	1.0	21 - 35	P 28.0	1.3	4 - 7	P 5.9	0.6	24
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Initial Grouping by Reagent

Ortho Vitros	2	9 - 16	P 12.5	0.5	5 - 9	P 7.2	0.6	14 - 24	P 19.0	0.9	20 - 34	P 27.1	1.4	5 - 9	P 6.8	0.4	11
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Siemens Dimension Flex	3	9 - 15	P 12.3	0.9	6 - 10	P 7.8	0.6	14 - 24	P 19.1	1.0	21 - 35	P 28.0	1.3	5 - 8	P 6.0	0.7	28
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Initial Grouping by Sensitivity or Principle

Other spectrophotometric	4	9 - 15	P 12.3	0.8	5 - 9	P 7.0	0.6	13 - 22	P 17.9	1.3	19 - 31	P 25.0	2.4	5 - 8	P 6.6	0.6	26
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Enzyme-multiplied IA/EMIT	5	9 - 15	P 12.4	0.8	6 - 9	P 7.4	0.9	14 - 23	P 18.7	1.2	20 - 34	P 27.3	1.9	5 - 8	P 6.2	0.7	37
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Total Population

Whole Population	6	9 - 16	P 12.4	0.8	5 - 9	P 7.2	0.8	14 - 23	P 18.5	1.4	20 - 33	P 26.6	2.4	5 - 8	P 6.5	0.7	80
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Salicylates - mg/dL

Initial Grouping by Reagent and Instrument

Siemens Dimension Flex & Siemens Dimension EXL	1	9.4 - 15.6	P 12.49	0.38	7.5 - 12.4	P 9.94	0.29	14.4 - 23.9	P 19.16	0.38	20.8 - 34.7	P 27.74	0.51	4.3 - 7.2	P 5.75	0.26	32
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Initial Grouping by Reagent

Ortho Vitros	2	11.1 - 18.5	P 14.83	1.21	4.9 - 8.1	P 6.47	0.94	16.0 - 26.6	P 21.29	0.93	22.1 - 36.8	P 29.46	1.91	5.2 - 8.6	P 6.87	0.95	13
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Siemens Dimension Flex	3	9.4 - 15.6	P 12.48	0.37	7.4 - 12.4	P 9.93	0.29	14.4 - 24.0	P 19.19	0.39	20.9 - 34.8	P 27.83	0.66	4.3 - 7.2	P 5.75	0.26	35
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Initial Grouping by Sensitivity or Principle

Other spectrophotometric	4	9.7 - 16.2	P 12.97	1.15	6.6 - 11.0	P 8.78	1.9	14.9 - 24.8	P 19.82	1.16	21.3 - 35.6	P 28.46	1.62	4.4 - 7.4	P 5.92	0.76	55
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Total Population

Whole Population	5	9.7 - 16.3	P 13.0	1.12	6.3 - 10.5	P 8.38	2.08	14.9 - 24.9	P 19.93	1.22	21.6 - 36.1	P 28.85	1.96	4.4 - 7.3	P 5.84	0.78	63
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Theophylline

Initial Grouping by Reagent

Siemens Dimension Flex	1	11 - 19	P 15.3	0.7	7 - 12	P 9.7	0.5	17 - 28	P 22.7	0.9	25 - 41	P 32.8	1.9	6 - 11	P 8.4	0.6	12
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Initial Grouping by Sensitivity or Principle

Enzyme-multiplied IA/EMIT	2	12 - 19	P 15.5	0.8	7 - 12	P 9.6	0.5	17 - 28	P 22.7	1.0	24 - 41	P 32.5	2.0	6 - 11	P 8.4	0.6	14
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Total Population

Whole Population	3	12 - 20	P 15.7	0.8	7 - 12	P 9.4	0.9	17 - 29	P 22.8	1.2	25 - 42	P 33.5	3.7	6 - 11	P 8.6	0.6	27
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Tobramycin

Total Population

Whole Population	1	2.5 - 4.2	P 3.38	0.25	0.4 - 0.6	P 0.48	0.19	4.5 - 7.6	P 6.06	0.31	7.1 - 11.8	P 9.42	0.17	0.5 - 0.8	P 0.6	0.0	5
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Valproic Acid

Initial Grouping by Reagent and Instrument

Ortho Vitros & Ortho Vitros 3600, 5600	1	42 - 69	P 55.5	2.7	25 - 42	P 33.4	1.4	57 - 95	P 75.8	2.8	76 - 127	P 101.8	4.2	25 - 42	P 33.8	1.7	10
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Siemens Dimension Flex & Siemens Dimension EXL	2	37 - 62	P 49.9	2.3	25 - 42	P 33.6	2.0	53 - 88	P 70.0	2.1	72 - 120	P 95.7	3.5	23 - 39	P 31.0	2.2	16
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Initial Grouping by Reagent

Ortho Vitros	3	42 - 69	P 55.5	2.7	25 - 42	P 33.4	1.4	57 - 95	P 75.8	2.8	76 - 127	P 101.8	4.2	25 - 42	P 33.8	1.7	10
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Siemens Dimension Flex	4	38 - 63	P 50.0	2.4	25 - 42	P 33.8	2.0	53 - 88	P 70.1	2.0	72 - 120	P 95.9	3.4	23 - 39	P 31.2	2.2	18
Initial Grouping bySensitivityor Principle																	
Other spectrophotometric	5	41 - 69	P 55.0	3.1	25 - 41	P 32.7	2.0	57 - 94	P 75.4	4.4	76 - 126	P 100.8	5.0	25 - 41	P 33.1	2.9	22
Enzyme-multiplied IA/EMIT	6	38 - 63	P 50.4	2.4	25 - 42	P 33.3	2.1	53 - 88	P 70.3	2.2	72 - 120	P 96.2	4.1	24 - 40	P 31.7	2.1	25
Total Population																	
Whole Population	7	39 - 65	P 52.3	3.7	25 - 41	P 32.9	2.1	54 - 91	P 72.5	4.2	74 - 123	P 98.4	5.2	24 - 41	P 32.4	2.7	63

Vancomycin

Initial Grouping byReagent and Instrument

Ortho Vitros & Ortho Vitros 3600, 5600	1	12 - 20	P 16.3	0.9	4 - 7	C 5.0	0.0	22 - 37	P 29.9	1.2	35 - 59	P 47.0	1.3	4 - 7	C 5.0	0.0	11
Siemens Dimension Flex & Siemens Dimension EXL	2	13 - 21	P 17.2	0.6	0 - 3	C 1.4	0.5	23 - 39	P 31.1	1.1	38 - 64	P 50.9	3.7	1 - 4	C 2.5	0.5	34

Initial Grouping byReagent

Ortho Vitros	3	12 - 20	P 16.3	0.8	4 - 7	C 5.0	0.0	22 - 37	P 29.8	1.1	35 - 59	P 46.9	1.4	4 - 7	C 5.0	0.0	14
Siemens Dimension Flex	4	13 - 22	P 17.3	0.7	0 - 3	C 1.4	0.5	23 - 39	P 31.2	1.1	38 - 64	P 51.1	3.7	1 - 4	C 2.5	0.6	37

Initial Grouping bySensitivityor Principle

Other spectrophotometric	5	13 - 21	P 16.8	1.3	2 - 5	C 3.7	1.7	23 - 38	P 30.6	2.1	37 - 61	P 48.8	4.2	3 - 6	C 4.1	1.3	26
Enzyme-multiplied IA/EMIT	6	13 - 21	P 16.8	1.2	0 - 3	C 1.5	0.6	23 - 38	P 30.5	2.0	37 - 62	P 49.7	4.7	1 - 4	C 2.5	0.6	44
Turbidimetric/PETINIA	7	12 - 21	P 16.5	1.1	1 - 4	C 2.4	1.4	23 - 39	P 31.2	1.9	38 - 64	P 50.9	3.1	2 - 5	C 3.1	0.8	10
Total Population																	
Whole Population	8	13 - 21	P 16.7	1.4	1 - 4	C 2.3	1.5	23 - 38	P 30.5	2.2	37 - 62	P 49.3	4.6	2 - 5	C 3.1	1.2	82