

Characteristics of Early and Late Adult C57BL/6NCrl Mice

Historical studies have produced preclinical characteristics of C57BL/6NCrl mice. This phenotype data is representative of early and late aged adult subjects. Throughout this document, descriptive summary statistics are shown in tables under boxplots.



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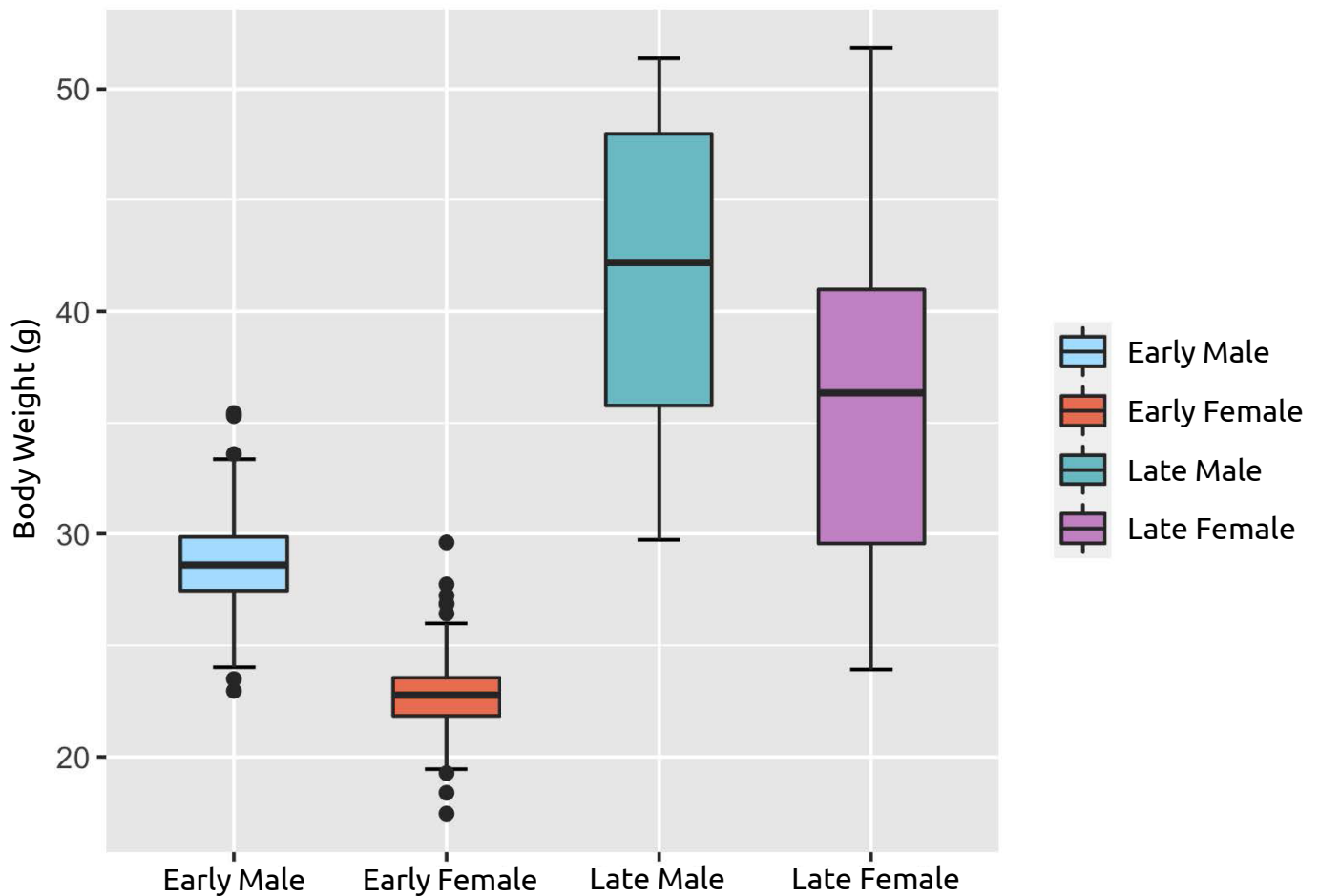
Body Composition

Historical data from multiple studies of aging pipeline on early (14 weeks old) and late (57 weeks old) adult control C57BL/6NCrl mice is summarized in the following charts and reference tables. Each are provided in terms of phenotypic characteristics assessed by the International Mouse Phenotyping Consortium (IMPC) following standardized protocols. The goal was to determine typical phenotypic ranges for early and late adult control mice. This reference data was collected over time at The Centre for Phenogenomics (TCP), Toronto, ON Canada and is shown in descriptive summary tables on body composition.

Animal (C57BL/6NCrl) Study Parameters

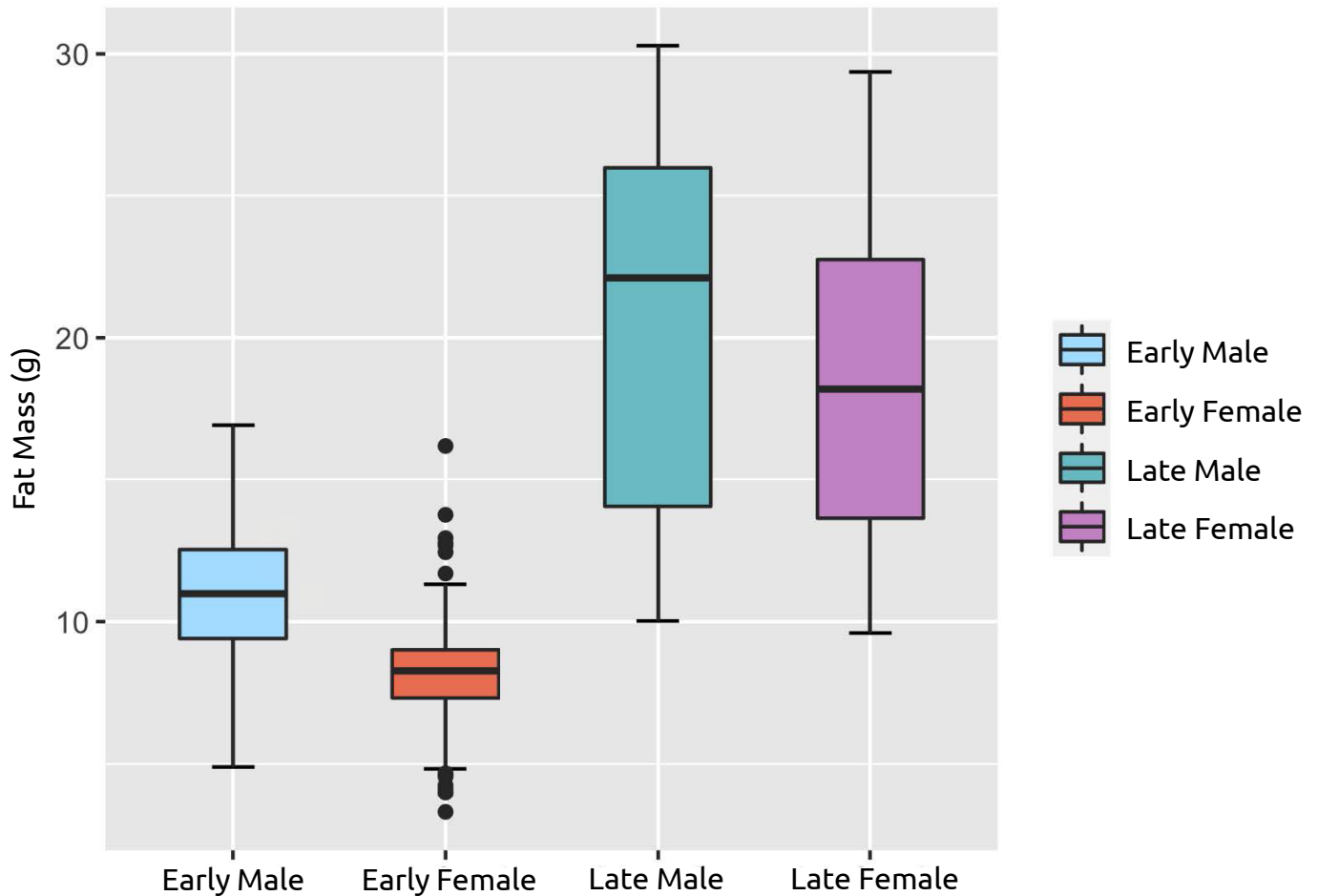
Pipeline	Sex	Test Dates (earliest/latest)	Test Week	Sample Size (n = 578)
Early	Male	2017-11-06 / 2020-05-07	14	207
	Female	2017-11-07 / 2020-04-30	14	233
Late	Male	2017-11-13 / 2020-05-04	57	67
	Female	2017-12-28 / 2020-06-08	57	71

Body Weight



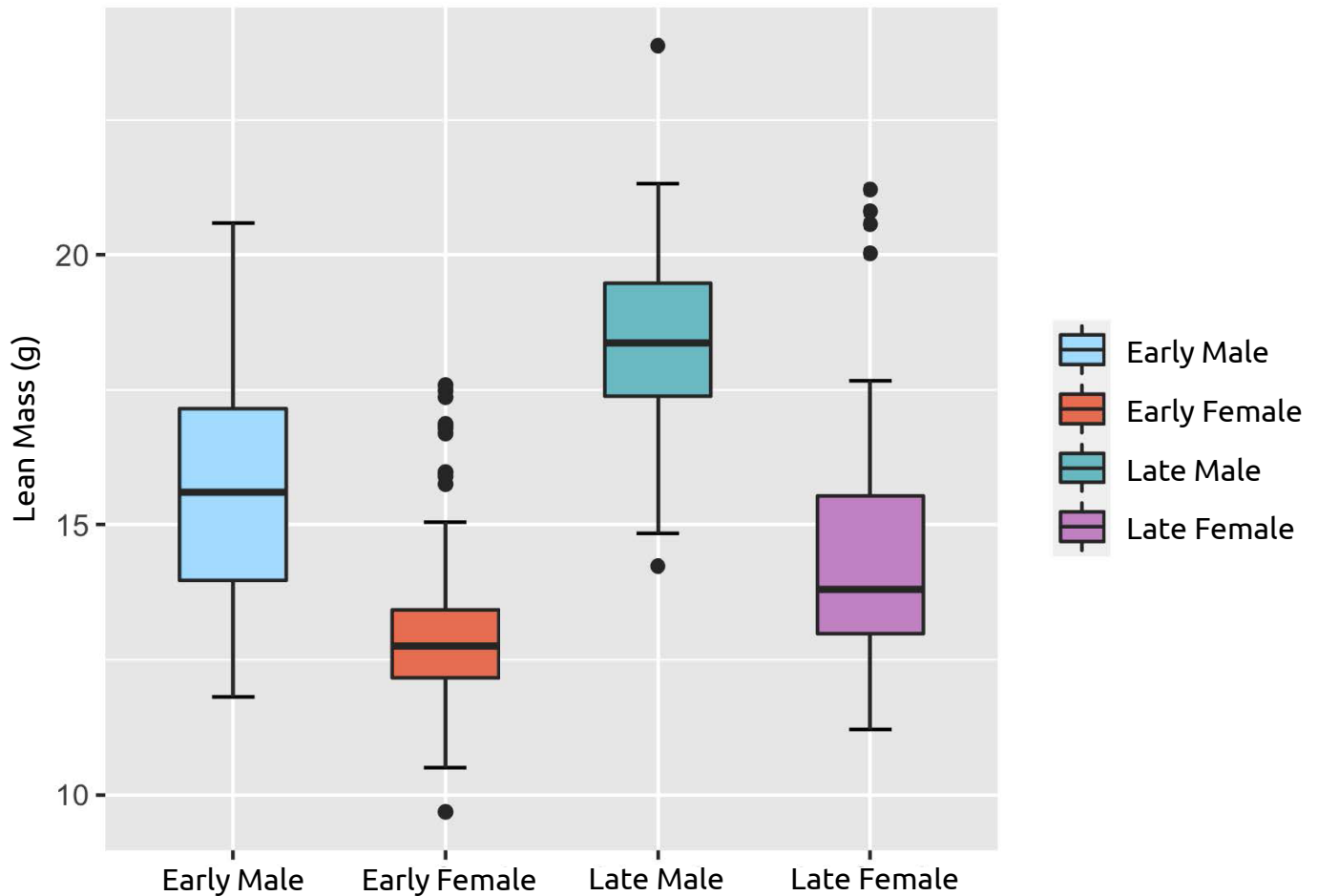
	Body Weight (g)			
	Early		Late	
	M	F	M	F
Min	22.96	17.42	29.73	23.92
25%	27.45	21.84	35.78	29.56
50% (Median)	28.60	22.77	42.19	36.35
75%	29.86	23.55	48.00	40.98
Max	35.45	29.61	51.38	51.86
Mean	28.63	22.80	41.71	35.90
SD	2.03	1.54	6.49	7.21

Fat Mass



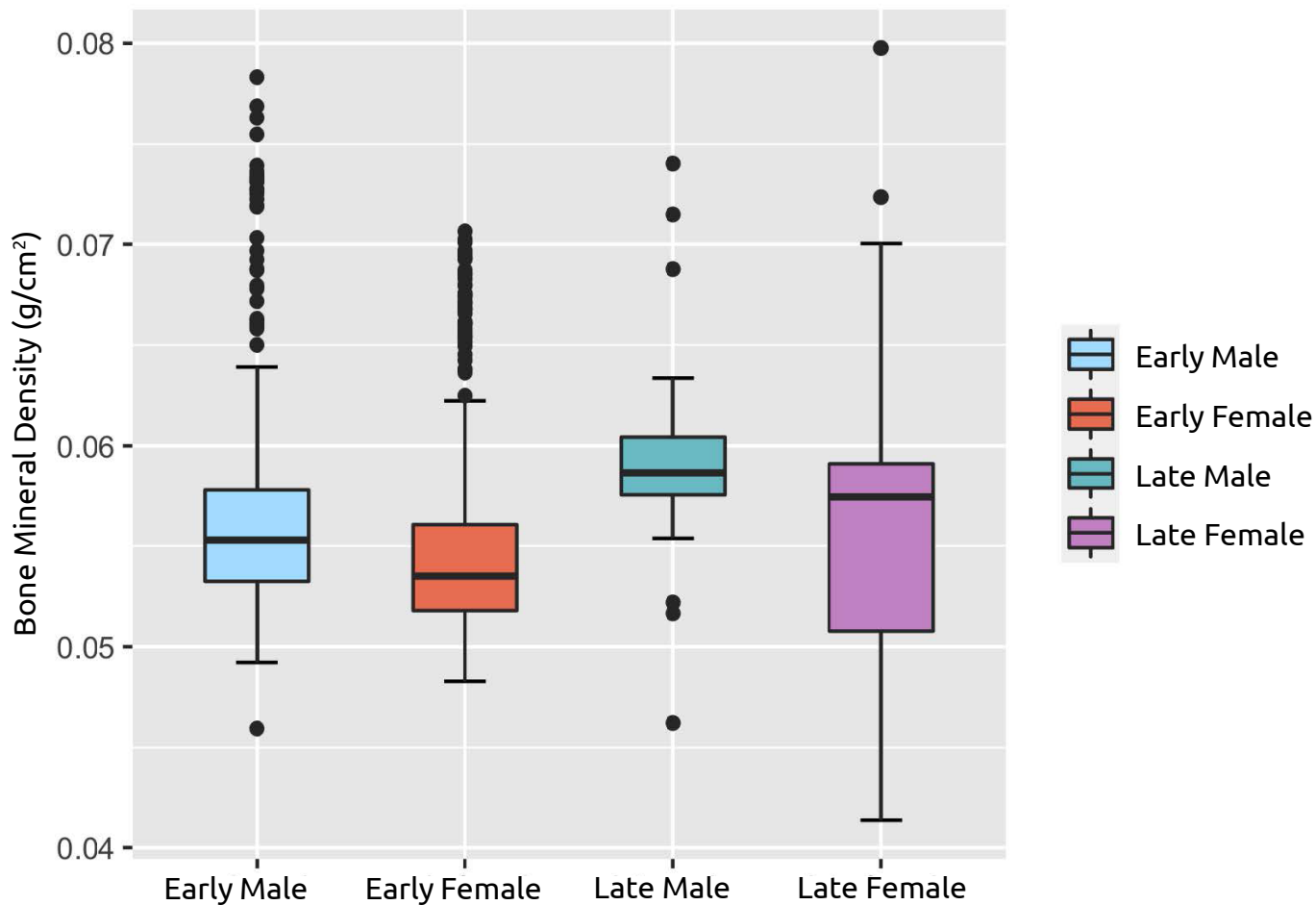
	Fat Mass (g)			
	Early		Late	
	M	F	M	F
Min	4.89	3.29	10.02	9.60
25%	9.41	7.32	14.05	13.63
50% (Median)	10.98	8.27	22.10	18.20
75%	12.53	9.01	25.97	22.75
Max	16.93	16.20	30.29	29.37
Mean	10.98	8.07	20.65	18.37
SD	2.49	1.79	6.28	5.32

Lean Mass



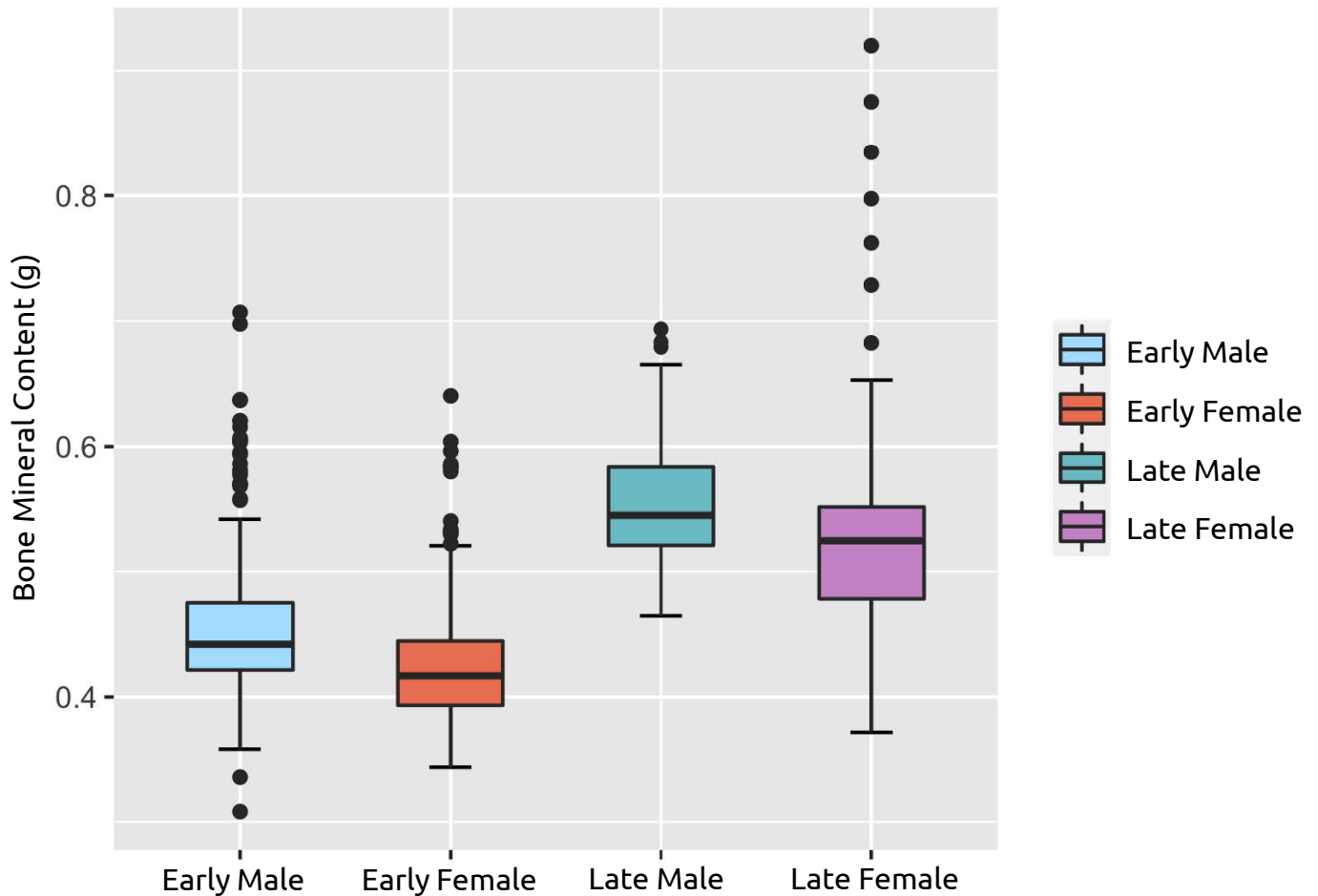
	Lean Mass (g)			
	Early		Late	
	M	F	M	F
Min	11.81	9.67	14.23	11.21
25%	13.97	12.17	17.39	12.98
50% (Median)	15.60	12.75	18.37	13.80
75%	17.15	13.42	19.47	15.53
Max	20.58	17.59	23.88	21.20
Mean	15.66	12.91	18.36	14.44
SD	1.95	1.19	1.64	2.18

Bone Mineral Density



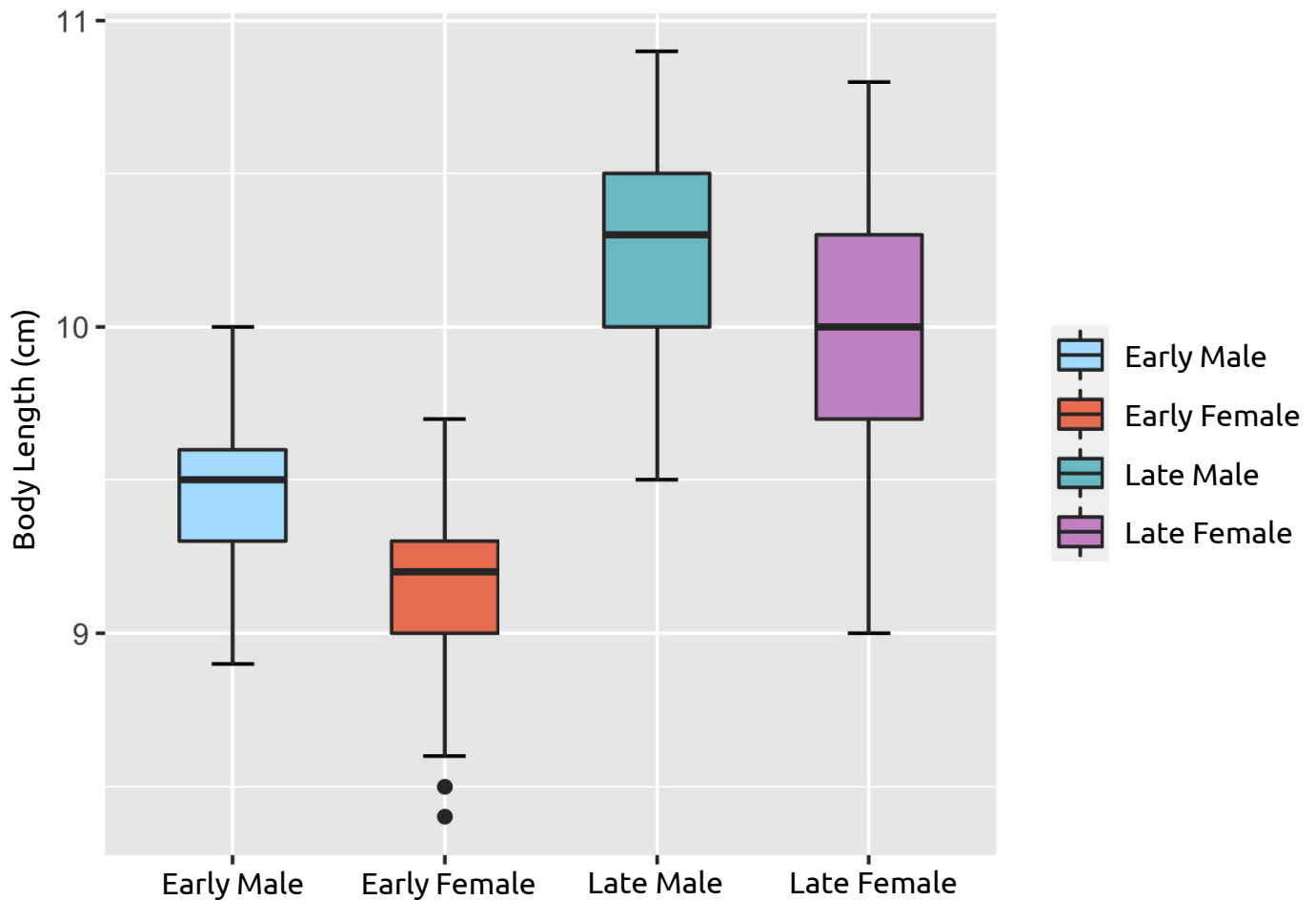
	Bone Mineral Density (g/cm ²)			
	Early		Late	
	M	F	M	F
Min	0.0459	0.0483	0.0462	0.0414
25%	0.0532	0.0518	0.0575	0.05085
50% (Median)	0.0553	0.0535	0.0587	0.0574
75%	0.0578	0.0561	0.0604	0.0591
Max	0.0783	0.0706	0.0740	0.0798
Mean	0.0574	0.0558	0.0590	0.0562
SD	0.0065	0.0059	0.0038	0.0072

Bone Mineral Content



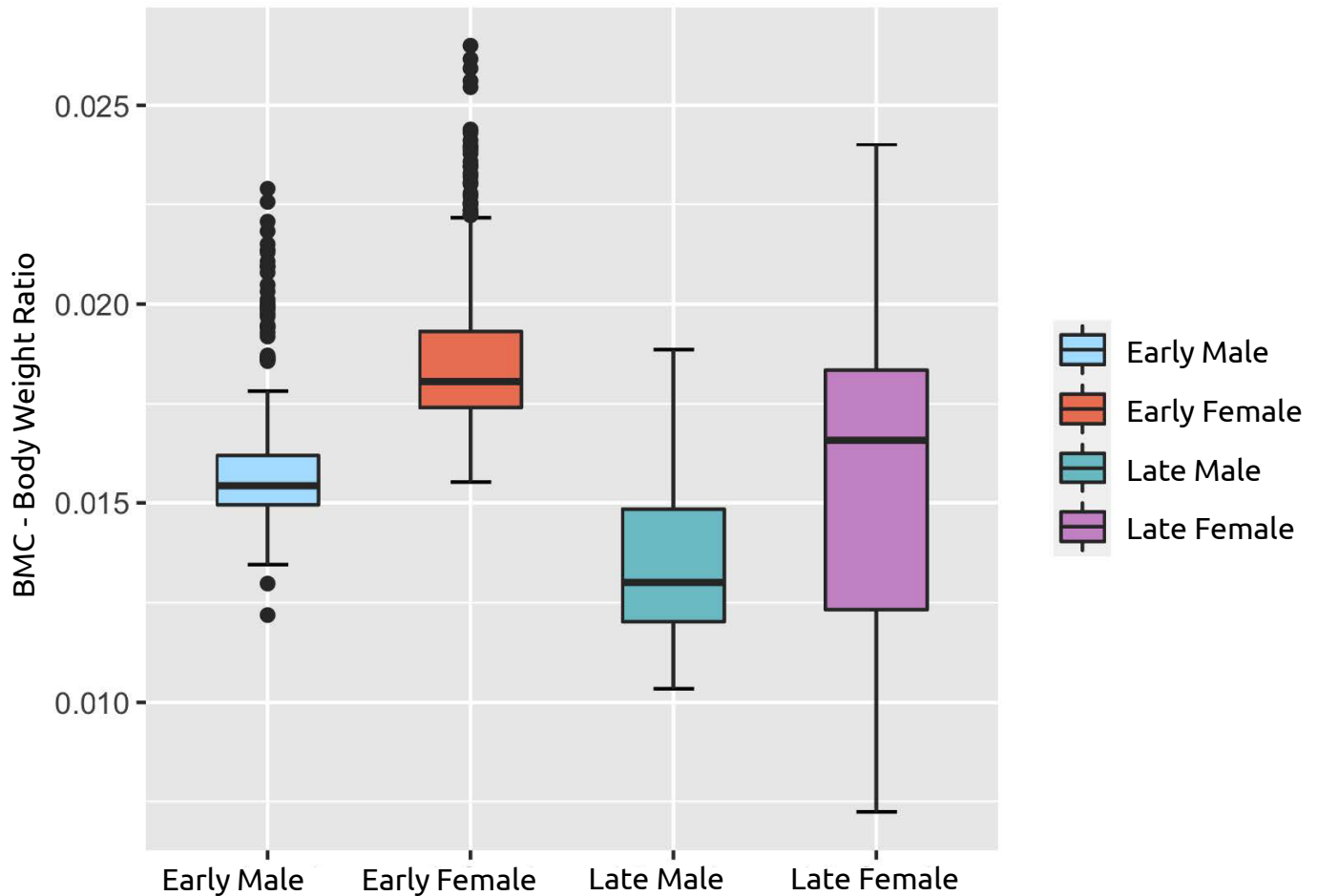
	Bone Mineral Content (g)			
	Early		Late	
	M	F	M	F
Min	0.308	0.344	0.465	0.372
25%	0.422	0.393	0.521	0.478
50% (Median)	0.442	0.417	0.545	0.524
75%	0.475	0.445	0.584	0.551
Max	0.707	0.640	0.694	0.920
Mean	0.459	0.428	0.551	0.541
SD	0.064	0.051	0.052	0.102

Body Length



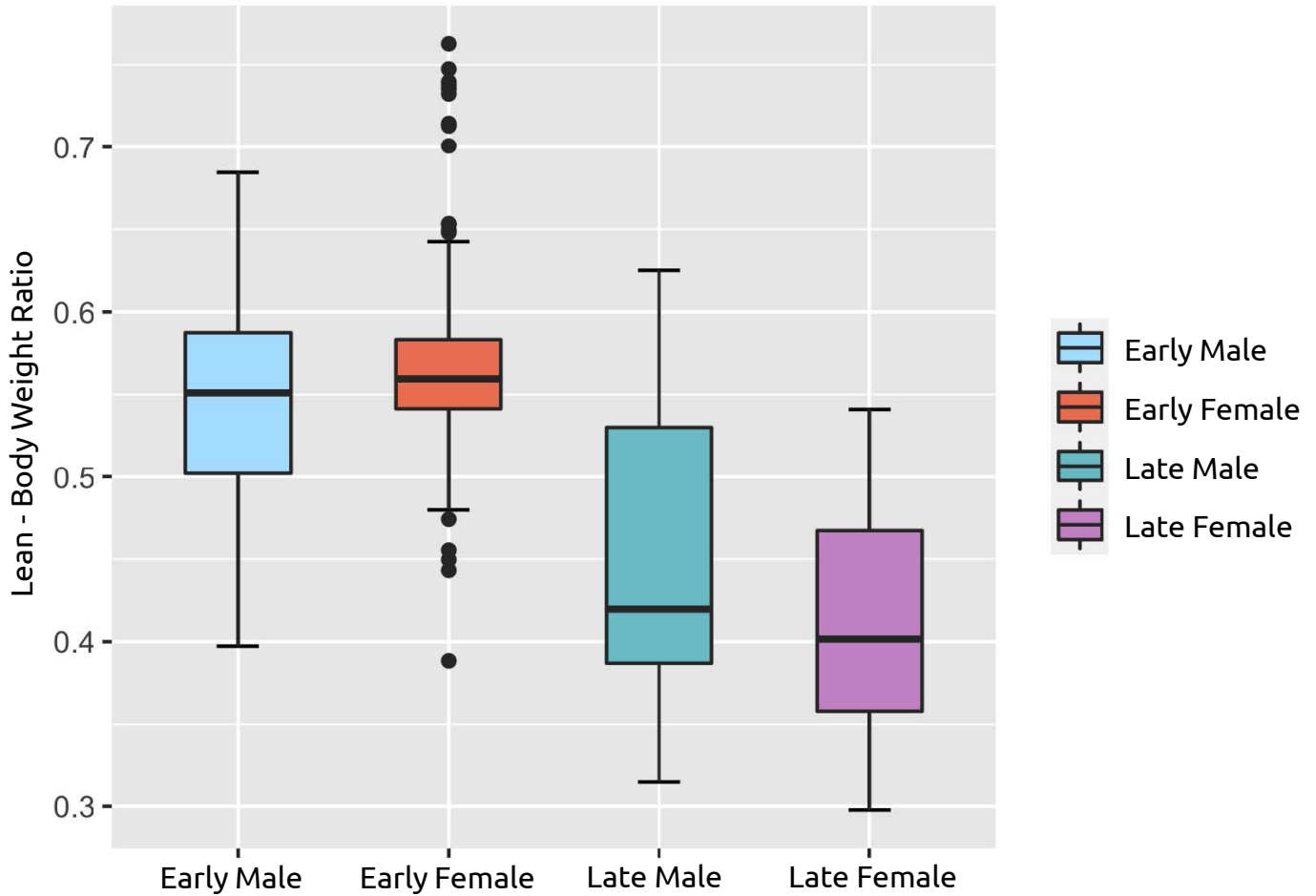
	Body Length (cm)			
	Early		Late	
	M	F	M	F
Min	8.90	8.40	9.50	9.00
25%	9.30	9.00	10.00	9.70
50% (Median)	9.50	9.20	10.30	10.00
75%	9.60	9.30	10.50	10.30
Max	10.00	9.70	10.90	10.80
Mean	9.50	9.16	10.21	9.99
SD	0.22	0.20	0.36	0.36

BMC - Body Weight Ratio



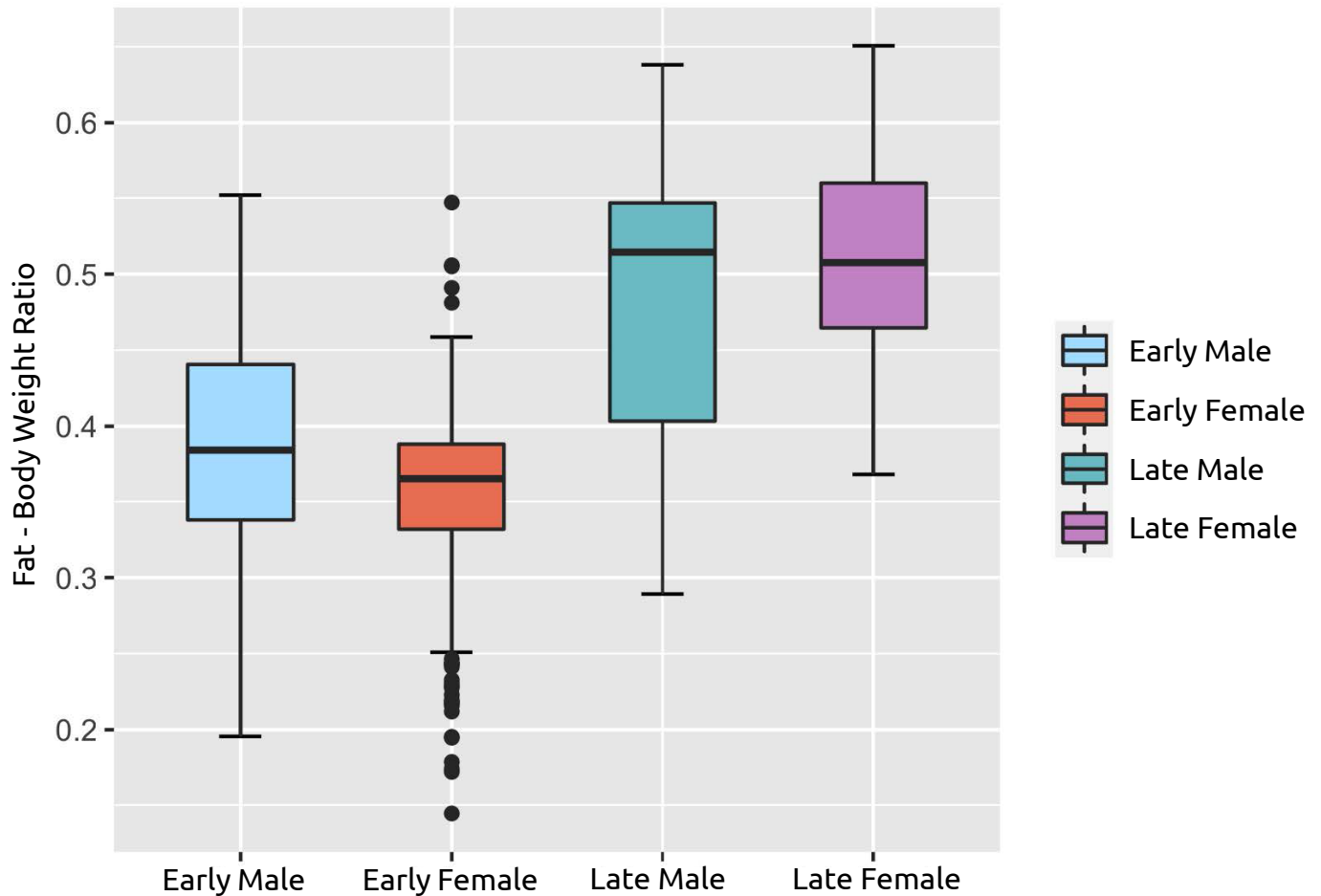
BMC - Body Weight Ratio				
	Early		Late	
	M	F	M	F
Min	0.0122	0.0155	0.0103	0.0072
25%	0.0150	0.0174	0.0120	0.0123
50% (Median)	0.0154	0.0181	0.0130	0.0166
75%	0.0162	0.0193	0.0148	0.0183
Max	0.0229	0.0265	0.0189	0.0240
Mean	0.0161	0.0188	0.0135	0.0156
SD	0.0020	0.0022	0.0019	0.0034

Lean - Body Weight Ratio



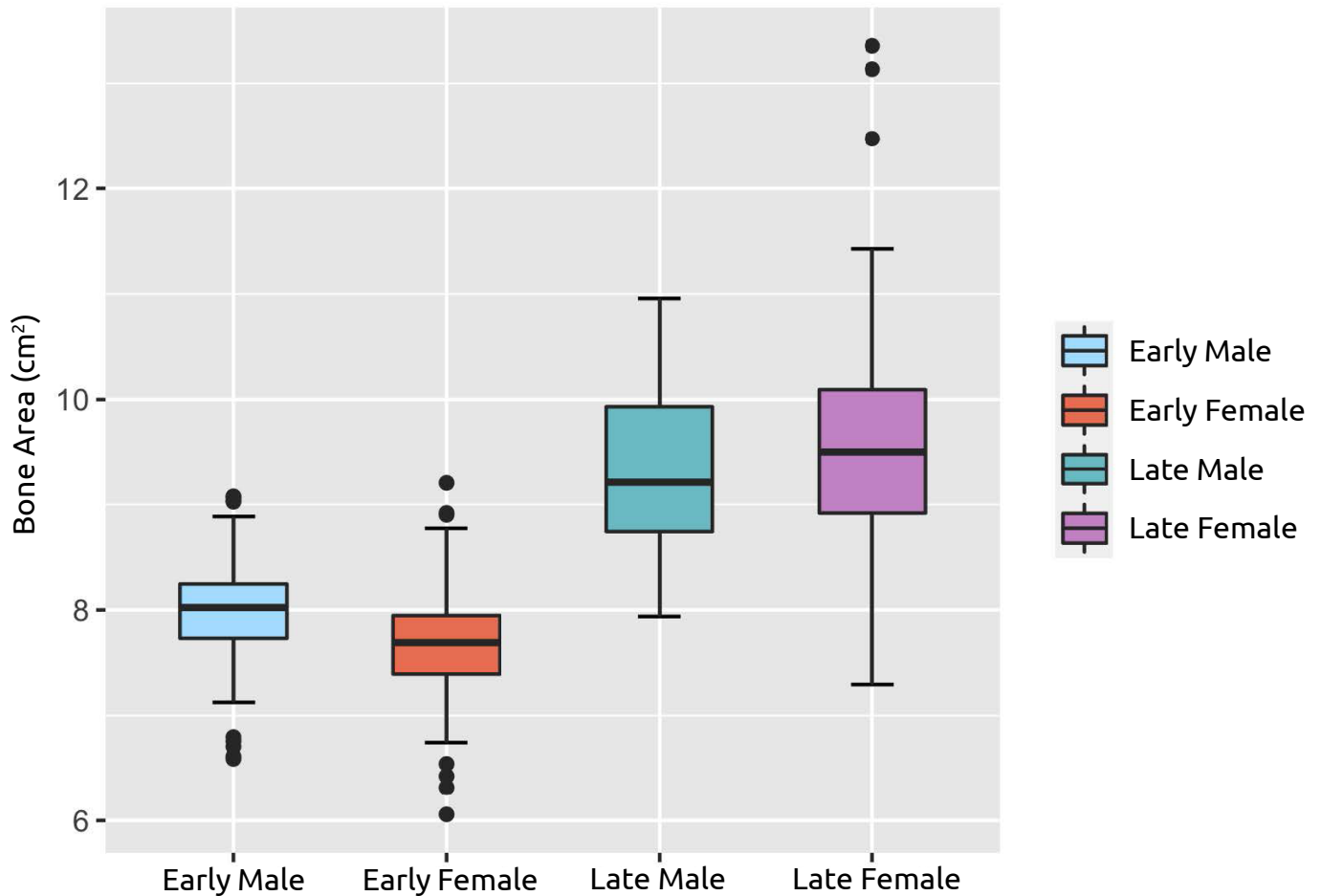
Lean - Body Weight Ratio				
	Early		Late	
	M	F	M	F
Min	0.397	0.388	0.315	0.298
25%	0.502	0.541	0.387	0.358
50% (Median)	0.551	0.560	0.420	0.402
75%	0.587	0.583	0.530	0.467
Max	0.684	0.763	0.625	0.541
Mean	0.548	0.568	0.451	0.411
SD	0.062	0.050	0.083	0.066

Fat - Body Weight Ratio



Fat - Body Weight Ratio				
	Early		Late	
	M	F	M	F
Min	0.196	0.144	0.289	0.368
25%	0.338	0.332	0.403	0.465
50% (Median)	0.384	0.365	0.514	0.507
75%	0.441	0.388	0.547	0.560
Max	0.552	0.547	0.638	0.651
Mean	0.383	0.352	0.484	0.504
SD	0.078	0.065	0.085	0.066

Bone Area



Bone Area (cm ²)				
	Early		Late	
	M	F	M	F
Min	6.59	6.06	7.94	7.29
25%	7.73	7.39	8.74	8.92
50% (Median)	8.02	7.69	9.21	9.50
75%	8.25	7.95	9.93	10.09
Max	9.08	9.20	10.96	13.36
Mean	8.00	7.67	9.34	9.63
SD	0.43	0.45	0.70	1.08

Body Composition Parameters Summary

Reference Intervals of Body Composition Parameters For Early Adult Control Mice (C57BL/6/NCrI)

	Male			Female		
	2.5%	Median	97.5%	2.5%	Median	97.5%
Body Weight (g)	24.56	28.60	32.38	20.14	22.77	26.07
Fat Mass (g)	5.96	10.98	15.88	4.60	8.27	11.84
Lean Mass (g)	12.65	15.60	19.57	11.25	12.75	16.71
Bone Mineral Density (g/cm ²)	0.0507	0.0553	0.0736	0.0493	0.0535	0.0693
Bone Mineral Content (g)	0.377	0.442	0.620	0.355	0.417	0.580
Body Length (cm)	9.10	9.50	10.00	8.80	9.20	9.50
BMC - Body Weight Ratio	0.0139	0.0154	0.0213	0.0164	0.0181	0.0243
Lean - Body Weight Ratio	0.434	0.551	0.674	0.481	0.560	0.718
Fat - Body Weight Ratio	0.206	0.384	0.515	0.209	0.365	0.458
Bone Area (cm ²)	7.14	8.02	8.86	6.85	7.69	8.62

Reference Intervals of Body Composition Parameters For Late Adult Control Mice (C57BL/6/NCrI)

	Male			Female		
	2.5%	Median	97.5%	2.5%	Median	97.5%
Body Weight (g)	31.43	42.19	51.17	24.52	36.35	49.53
Fat Mass (g)	10.78	22.10	29.80	9.74	18.20	27.70
Lean Mass (g)	15.12	18.37	21.17	11.61	13.80	20.62
Bone Mineral Density (g/cm ²)	0.052	0.0587	0.0697	0.0432	0.0574	0.0706
Bone Mineral Content (g)	0.467	0.545	0.681	0.425	0.524	0.845
Body Length (cm)	9.60	10.30	10.80	9.35	10.00	10.53
BMC - Body Weight Ratio	0.0105	0.013	0.0174	0.0092	0.0166	0.0203
Lean - Body Weight Ratio	0.323	0.420	0.595	0.313	0.402	0.531
Fat - Body Weight Ratio	0.313	0.514	0.616	0.391	0.507	0.614
Bone Area (cm ²)	8.23	9.21	10.70	8.01	9.50	12.64

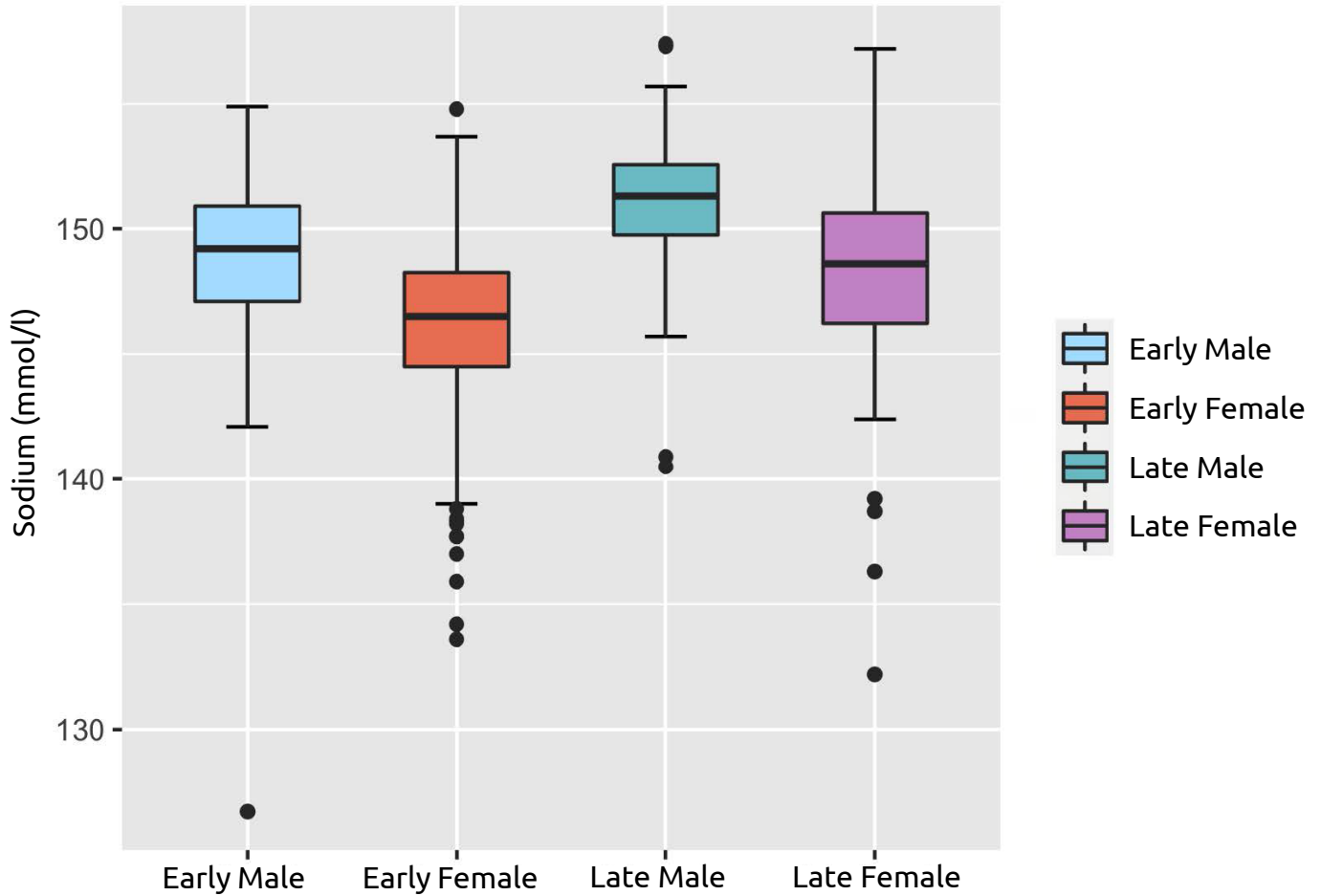
Clinical Chemistry

Historical data from multiple studies of aging pipeline on early (16 weeks old) and late (59 weeks old) adult control C57BL/6NCrl mice is summarized in the following charts and reference tables. Each are provided in terms of phenotypic characteristics assessed by the International Mouse Phenotyping Consortium (IMPC) following standardized protocols. The goal was to determine typical phenotypic ranges for early and late adult control mice. This reference data was collected over time at The Centre for Phenogenomics (TCP), Toronto, ON Canada and is shown in descriptive summary tables of clinical chemistry parameters.

Animal (C57BL/6NCrl) Study Parameters

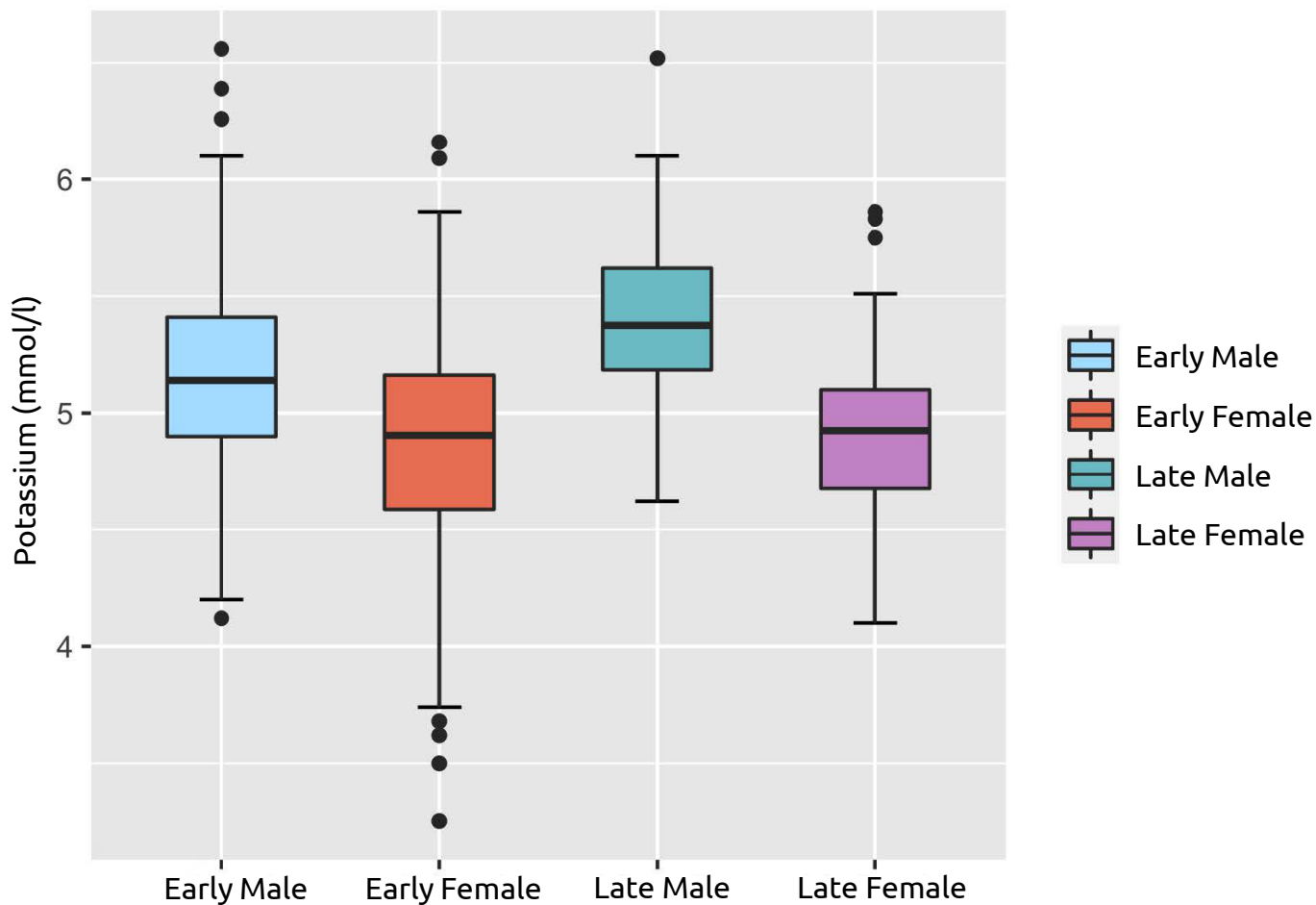
Pipeline	Sex	Test Dates (earliest/latest)	Test Week	Sample Size (n = 559)
Early	Male	2017-11-24 / 2020-05-22	16	201
	Female	2017-11-24 / 2020-05-20	16	232
Late	Male	2017-11-30 / 2020-05-22	59	66
	Female	2018-03-28 / 2020-04-13	59	60

Sodium



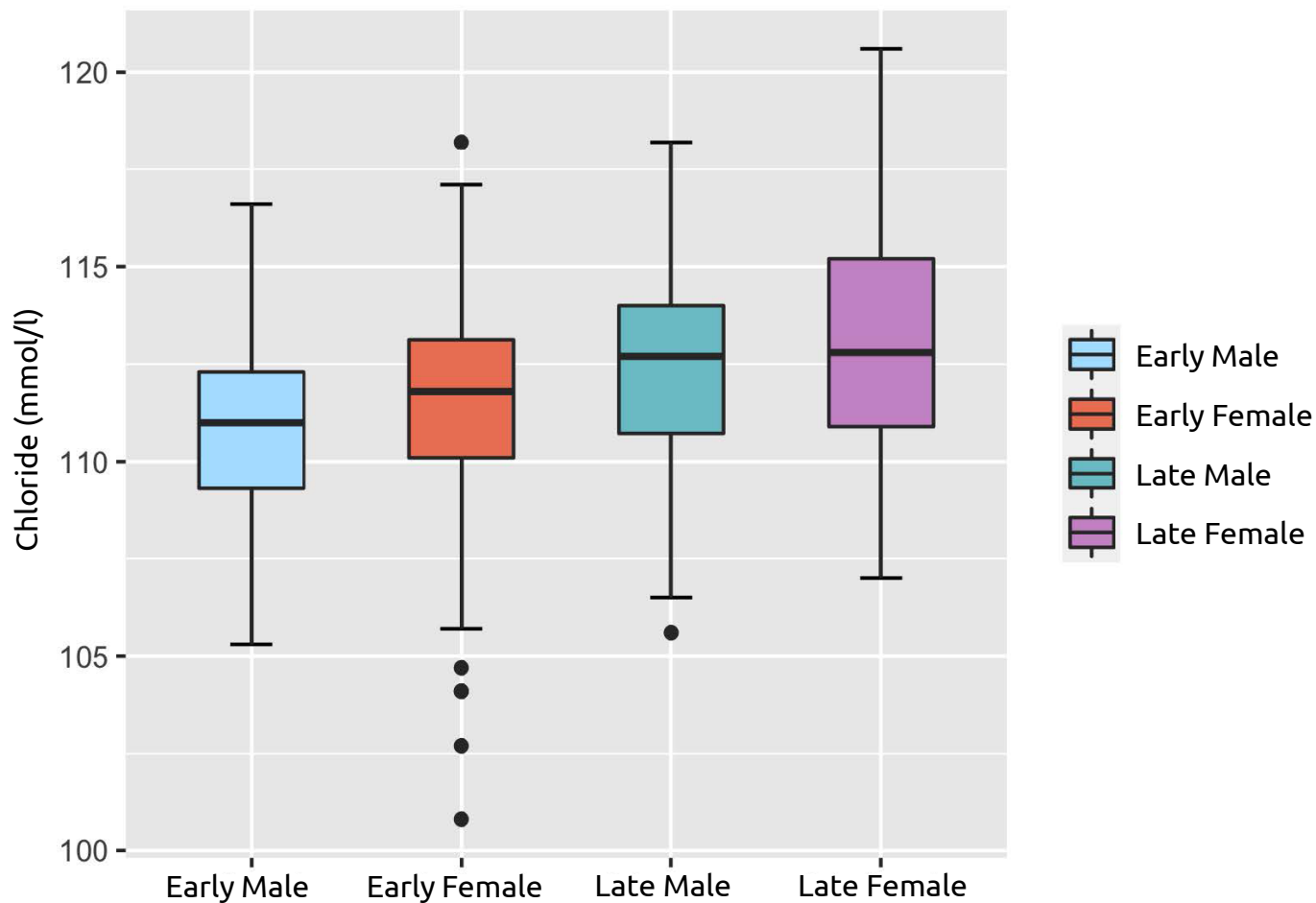
Sodium (mmol/l)				
	Early		Late	
	M	F	M	F
Min	126.70	133.60	140.50	132.20
25%	147.10	144.50	149.75	146.23
50% (Median)	149.20	146.50	151.30	148.60
75%	150.90	148.25	152.55	150.62
Max	154.90	154.80	157.40	157.20
Mean	148.85	146.18	151.12	147.85
SD	3.10	3.39	2.98	4.22

Potassium



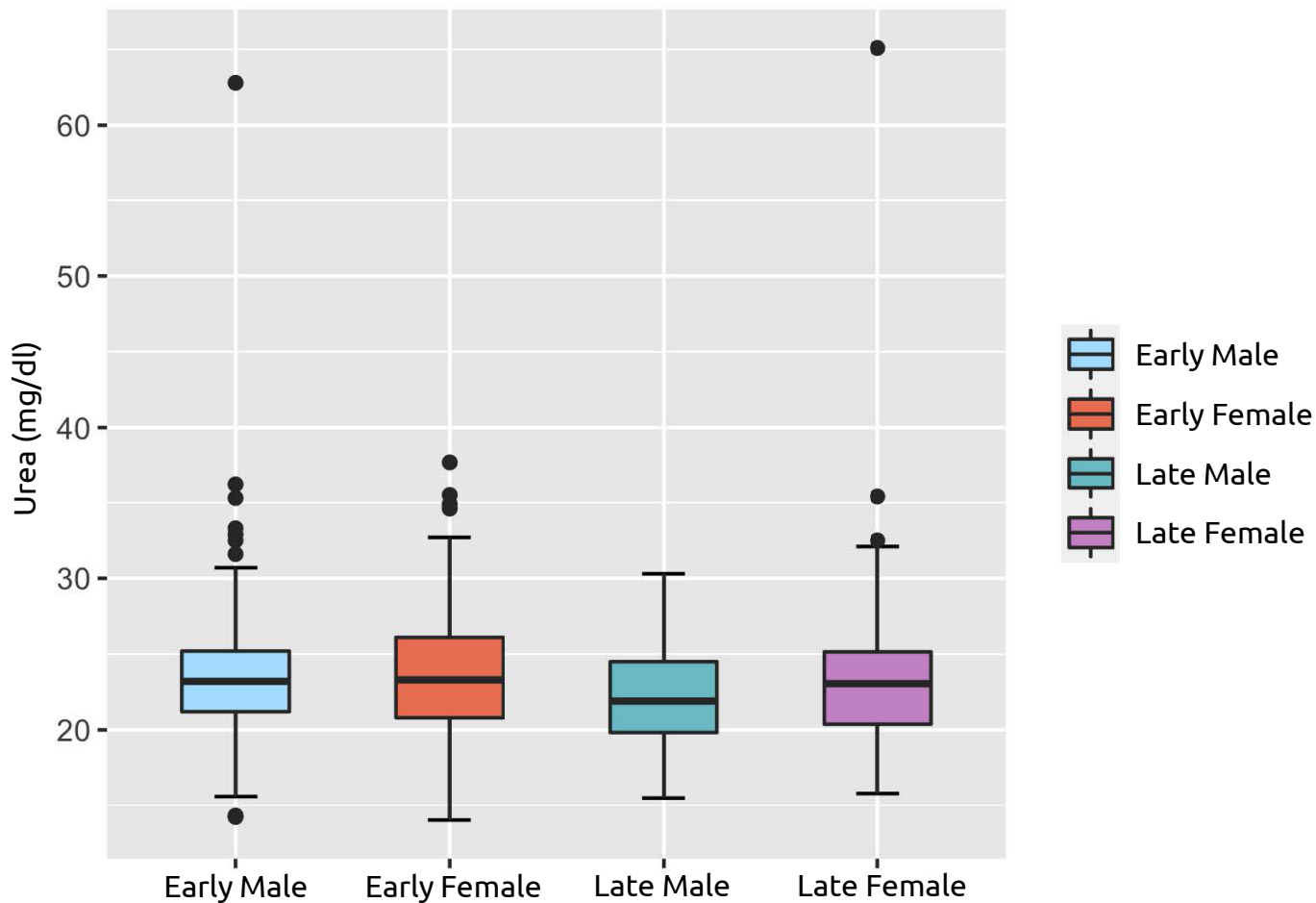
	Potassium (mmol/l)			
	Early		Late	
	M	F	M	F
Min	4.12	3.25	4.62	4.10
25%	4.90	4.58	5.18	4.67
50% (Median)	5.14	4.91	5.38	4.92
75%	5.41	5.16	5.62	5.10
Max	6.56	6.16	6.52	5.86
Mean	5.16	4.84	5.39	4.92
SD	0.40	0.50	0.41	0.36

Chloride



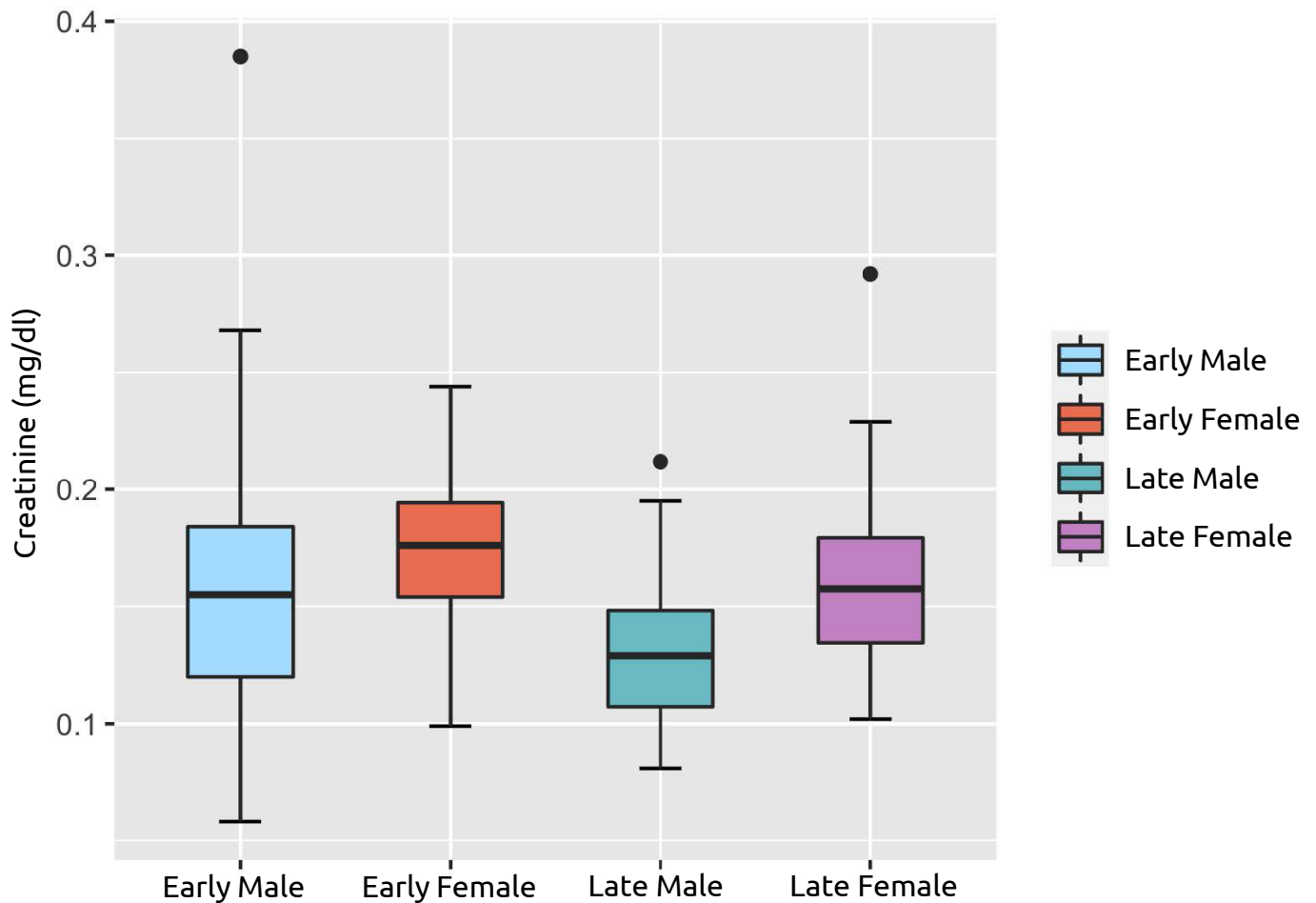
	Chloride (mmol/l)			
	Early		Late	
	M	F	M	F
Min	105.30	100.80	105.60	107.00
25%	109.30	110.10	110.73	110.90
50% (Median)	111.00	111.80	112.70	112.80
75%	112.30	113.12	114.00	115.20
Max	116.60	118.20	118.20	120.60
Mean	110.81	111.43	112.53	112.95
SD	2.13	2.48	2.39	2.87

Urea



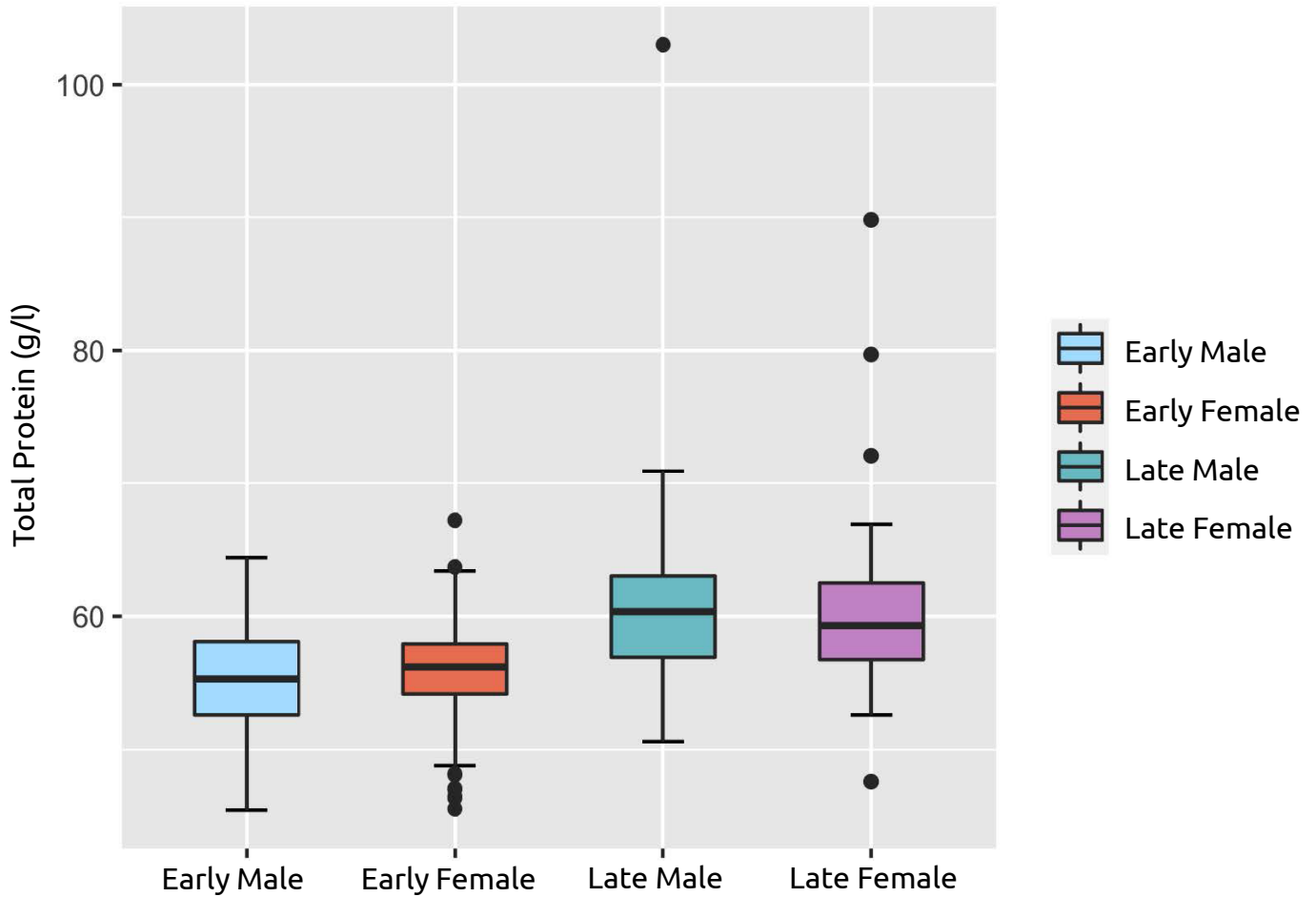
	Urea (mg/dl)			
	Early		Late	
	M	F	M	F
Min	14.20	14.00	15.50	15.80
25%	21.20	20.80	19.82	20.38
50% (Median)	23.20	23.30	21.90	23.05
75%	25.20	26.10	24.50	25.15
Max	62.80	37.70	30.30	65.10
Mean	23.48	23.55	22.11	23.99
SD	4.47	4.09	3.13	6.81

Creatinine



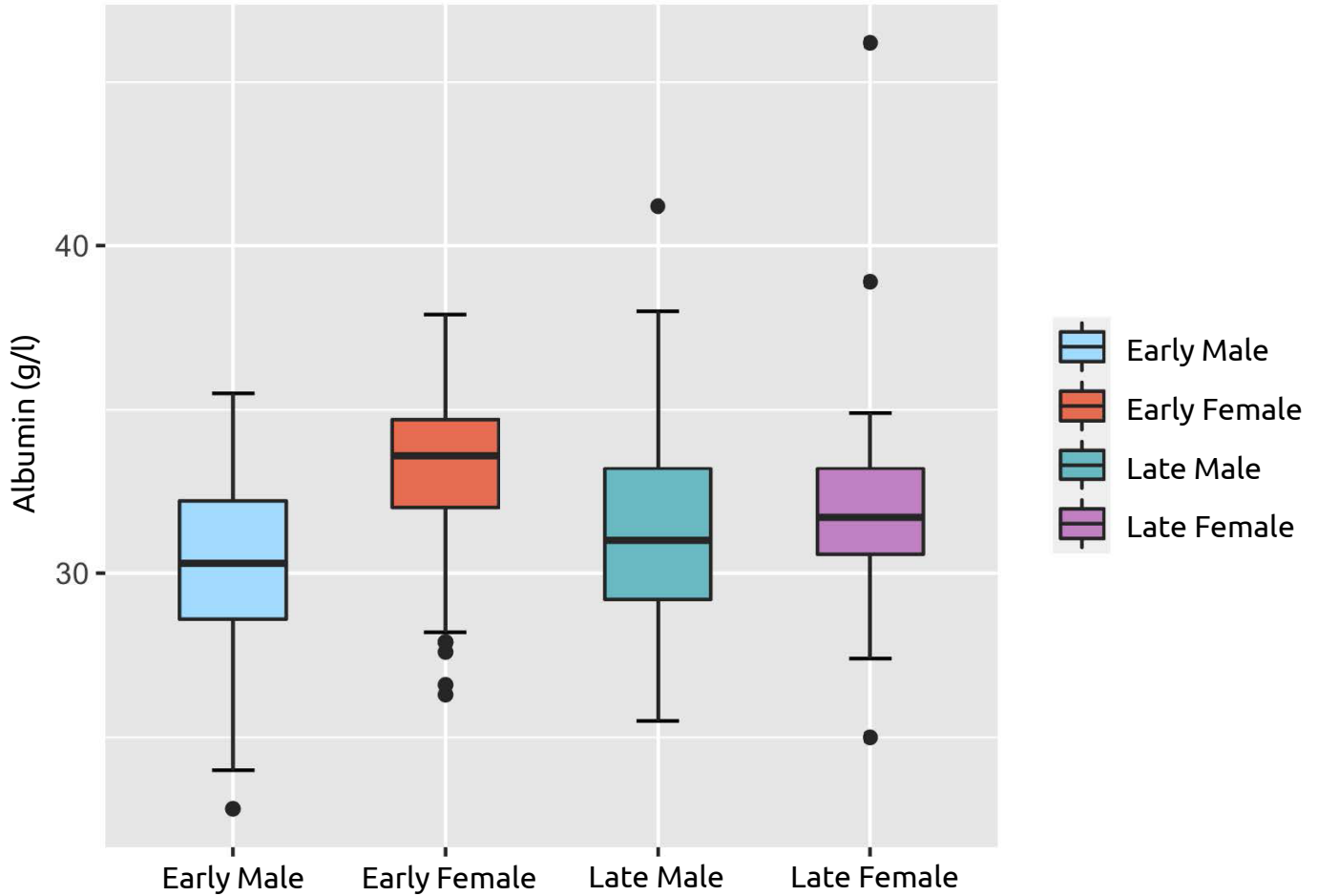
	Creatinine (mg/dl)			
	Early		Late	
	M	F	M	F
Min	0.06	0.10	0.08	0.10
25%	0.12	0.15	0.11	0.13
50% (Median)	0.16	0.18	0.13	0.16
75%	0.18	0.19	0.15	0.18
Max	0.38	0.24	0.21	0.29
Mean	0.15	0.18	0.13	0.16
SD	0.04	0.03	0.03	0.04

Total Protein



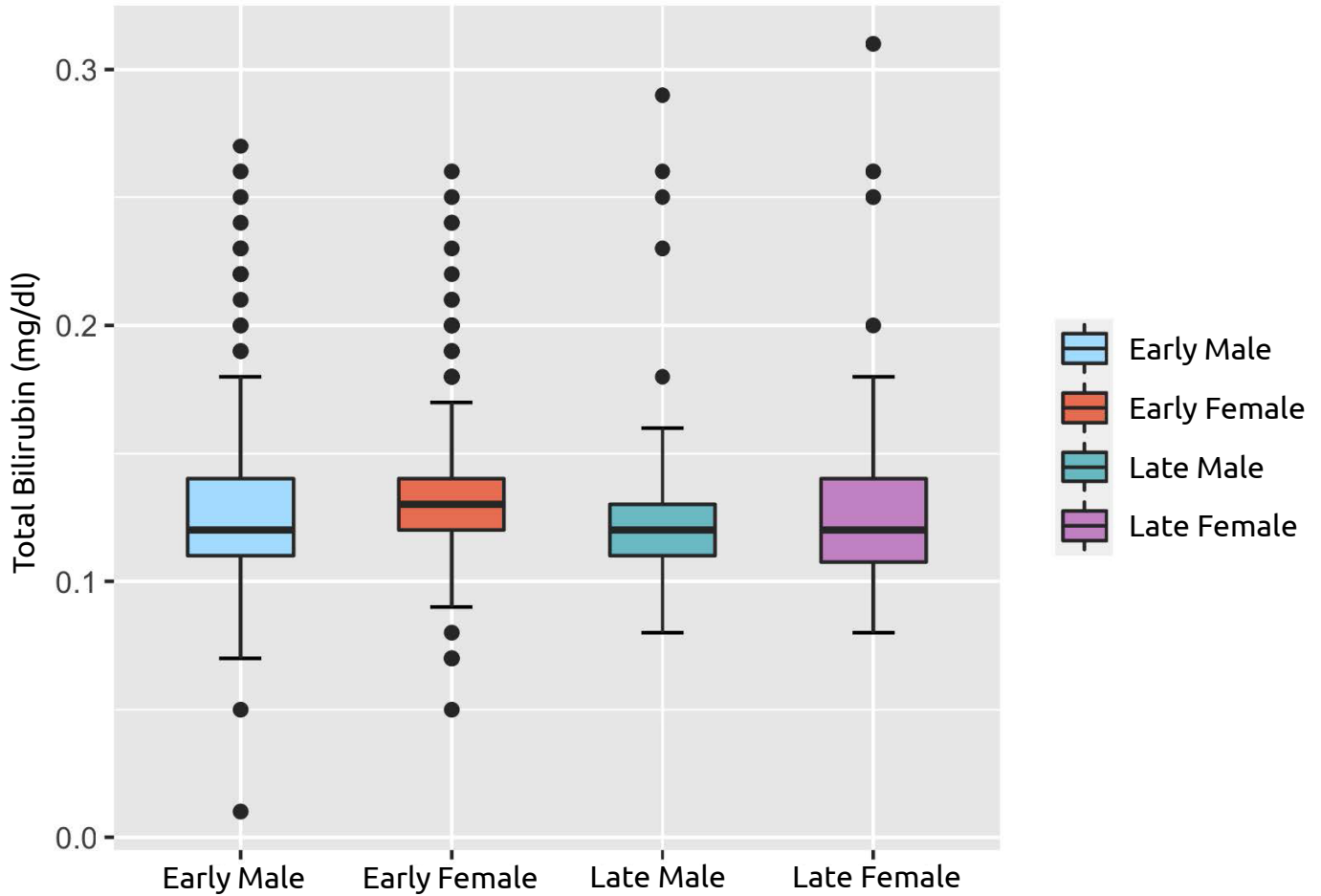
Total Protein (g/l)				
	Early		Late	
	M	F	M	F
Min	45.40	45.50	50.60	47.60
25%	52.60	54.18	56.92	56.75
50% (Median)	55.30	56.20	60.35	59.30
75%	58.10	57.92	63.03	62.50
Max	64.40	67.20	103.00	89.80
Mean	54.96	55.96	60.67	60.12
SD	3.95	3.36	7.14	6.33

Albumin



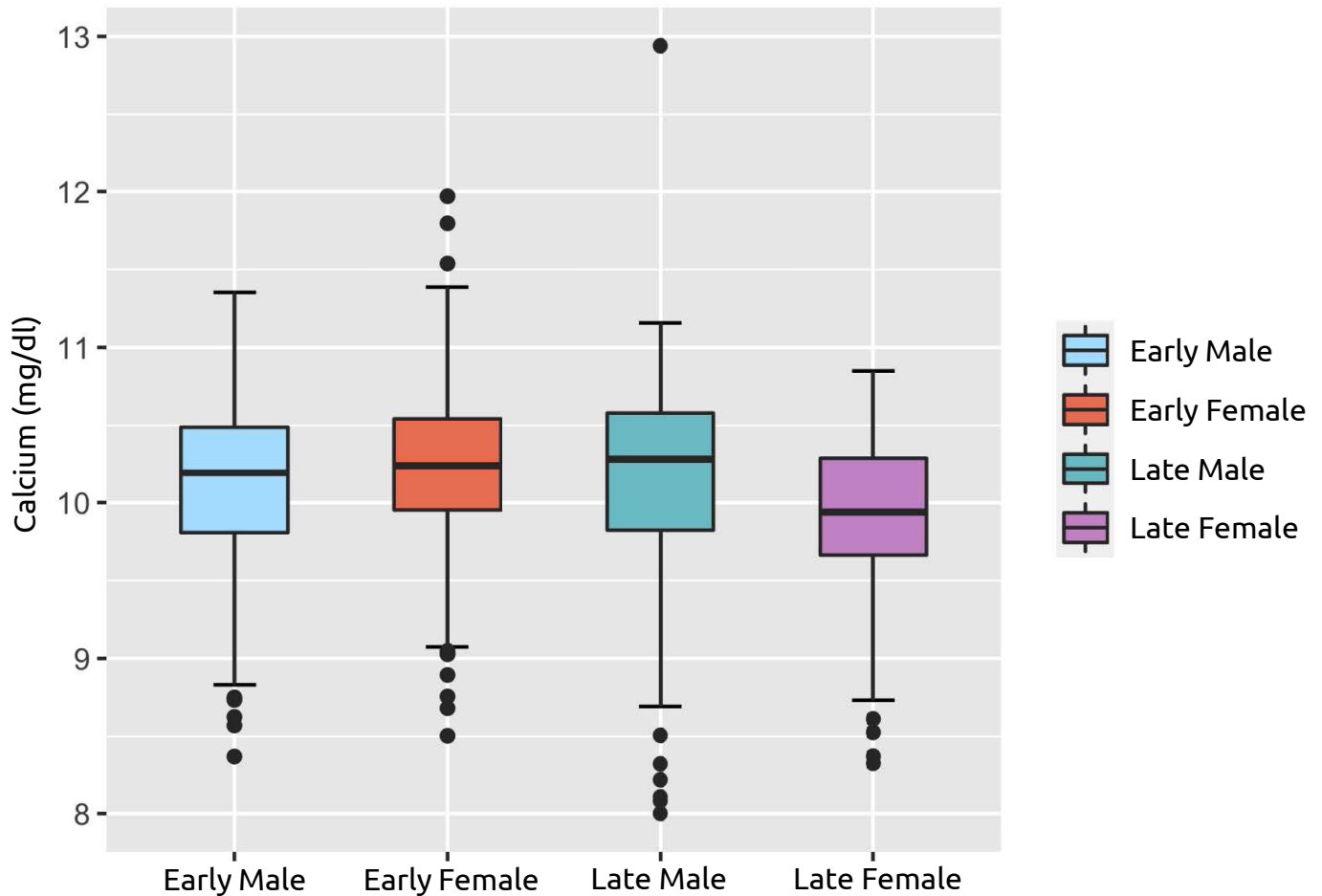
	Albumin (g/l)			
	Early		Late	
	M	F	M	F
Min	22.80	26.30	25.50	25.00
25%	28.60	32.00	29.20	30.58
50% (Median)	30.30	33.60	31.00	31.70
75%	32.20	34.70	33.20	33.20
Max	35.50	37.90	41.20	46.20
Mean	30.18	33.18	31.44	31.97
SD	2.79	2.15	3.11	2.90

Total Bilirubin



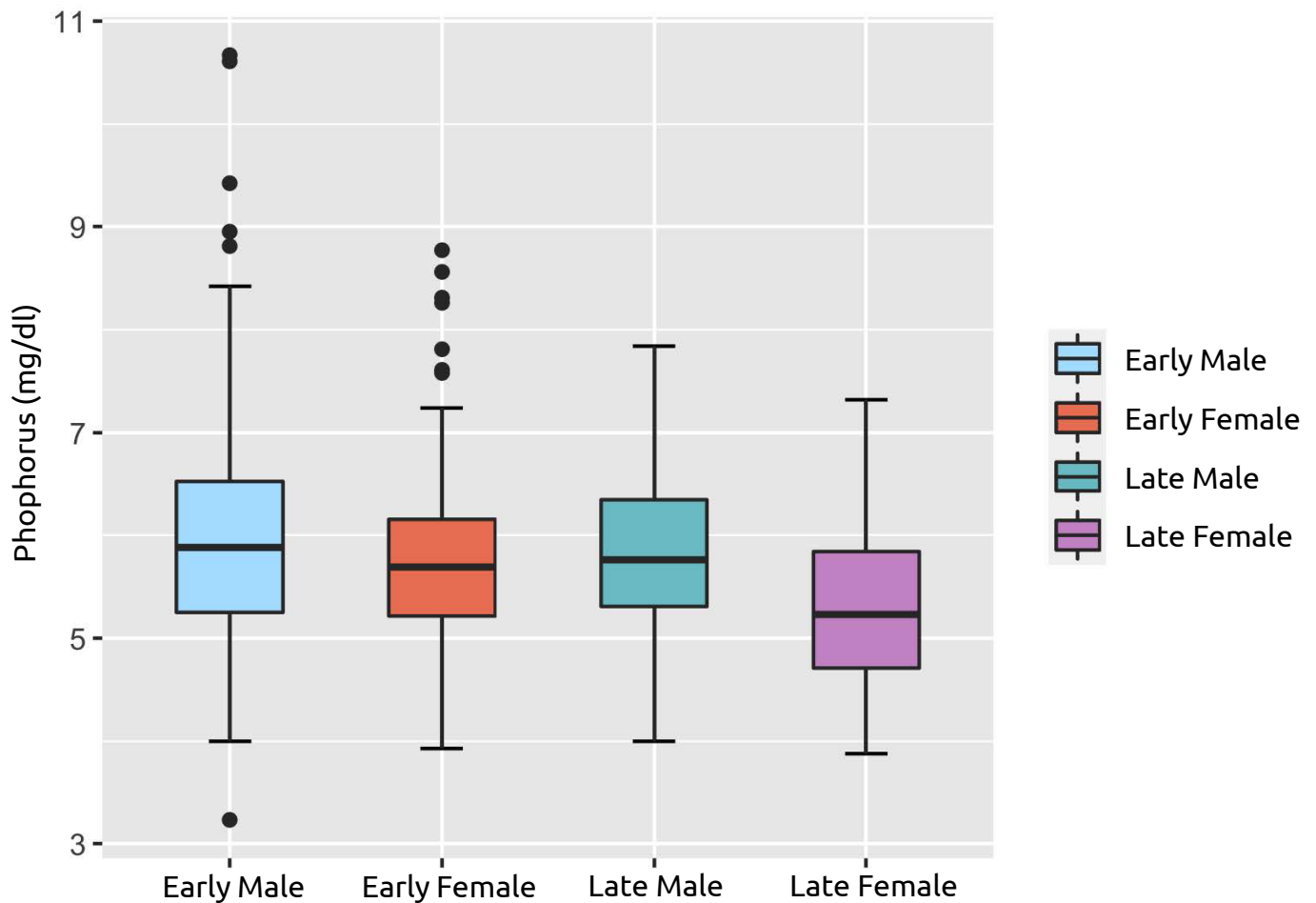
	Total Bilirubin (mg/dl)			
	Early		Late	
	M	F	M	F
Min	0.01	0.05	0.08	0.08
25%	0.11	0.12	0.11	0.11
50% (Median)	0.12	0.13	0.12	0.12
75%	0.14	0.14	0.13	0.14
Max	0.27	0.26	0.29	0.31
Mean	0.13	0.13	0.13	0.13
SD	0.04	0.03	0.04	0.04

Calcium



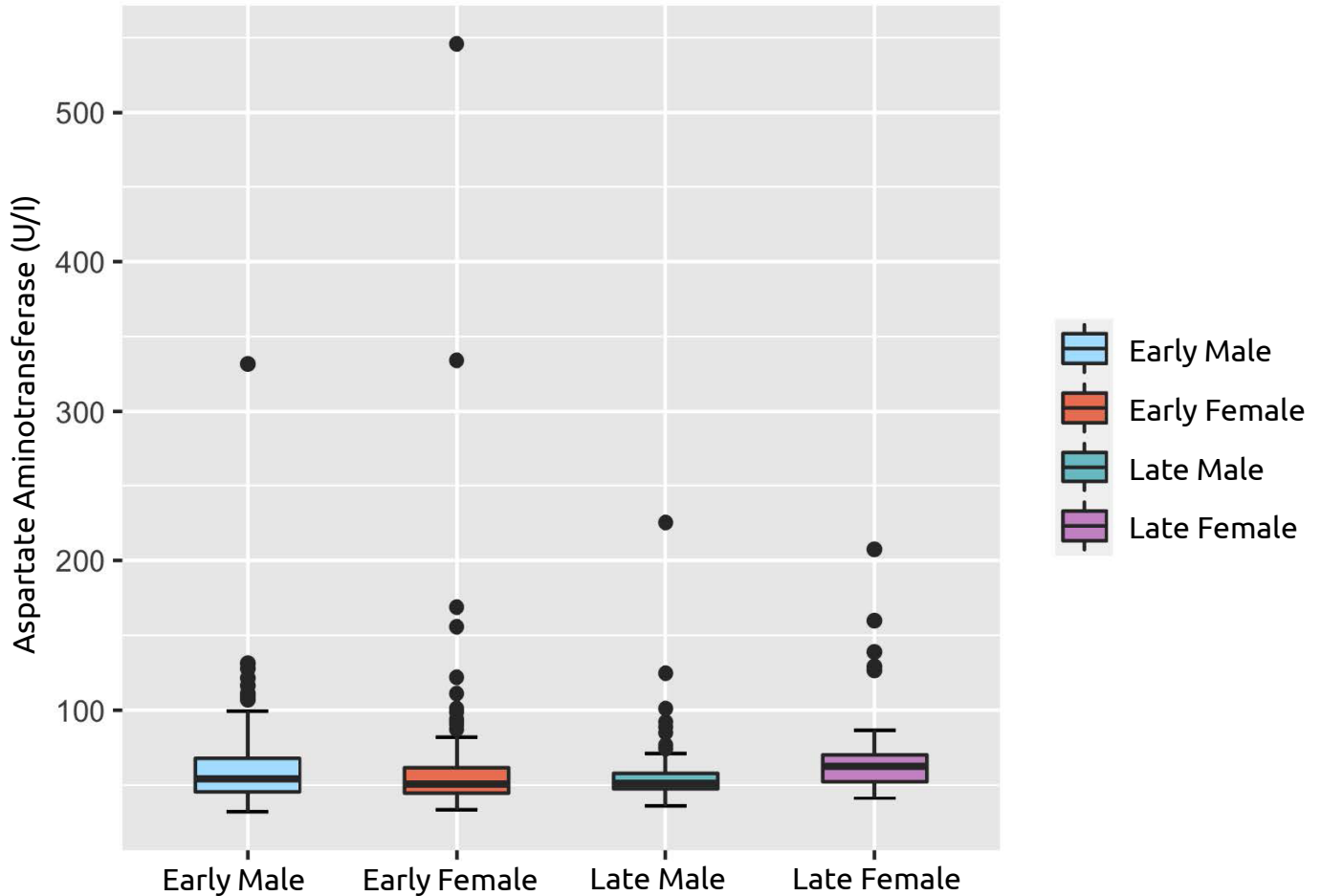
	Calcium (mg/dl)			
	Early		Late	
	M	F	M	F
Min	8.37	8.50	8.00	8.33
25%	9.81	9.95	9.82	9.66
50% (Median)	10.19	10.24	10.28	9.94
75%	10.49	10.54	10.58	10.29
Max	11.35	11.97	12.94	10.85
Mean	10.10	10.21	10.09	9.88
SD	0.59	0.55	0.90	0.56

Phosphorus



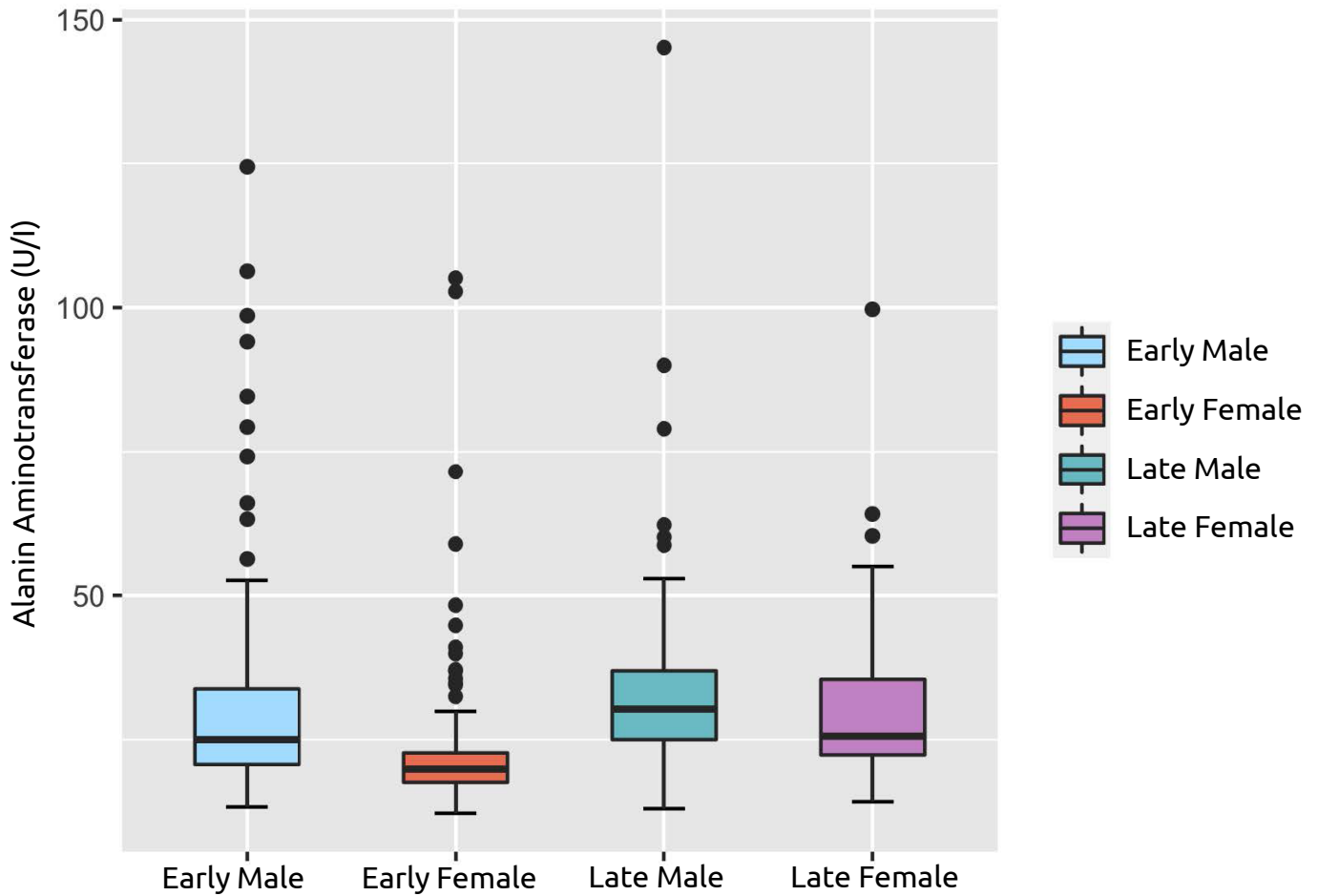
	Phosphorus (mg/dl)			
	Early		Late	
	M	F	M	F
Min	3.23	3.93	4.00	3.88
25%	5.25	5.21	5.31	4.71
50% (Median)	5.88	5.69	5.76	5.23
75%	6.52	6.15	6.34	5.84
Max	10.67	8.77	7.84	7.32
Mean	5.97	5.75	5.84	5.25
SD	1.08	0.79	0.81	0.78

Aspartate Aminotransferase



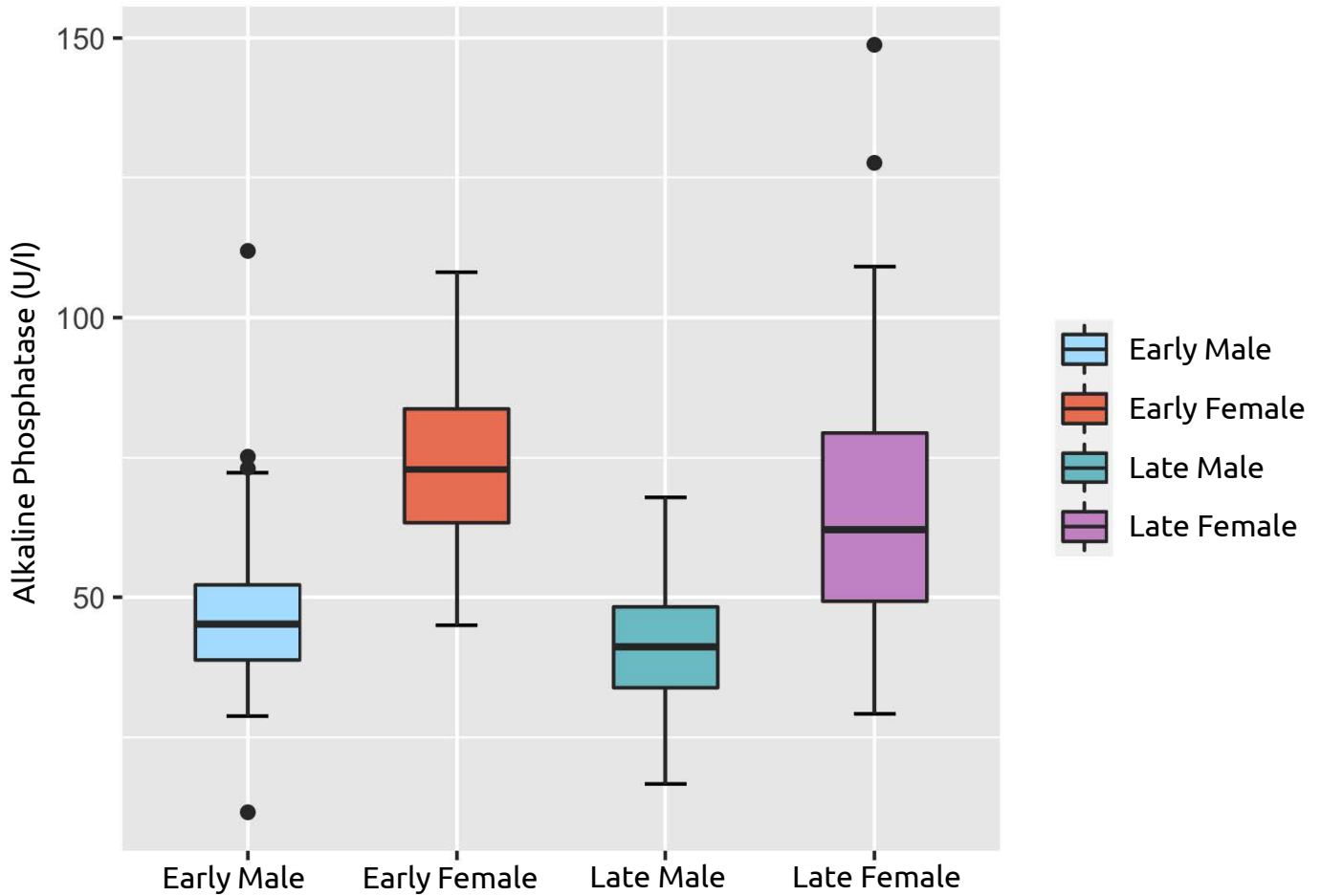
Aspartate Aminotransferase (U/l)				
	Early		Late	
	M	F	M	F
Min	31.70	33.00	35.60	41.00
25%	45.50	44.65	47.52	52.27
50% (Median)	54.20	50.70	51.20	62.55
75%	67.90	61.62	57.85	70.17
Max	331.70	545.90	225.30	207.40
Mean	60.07	58.62	58.12	68.31
SD	26.88	40.90	25.85	28.90

Alanine Aminotransferase



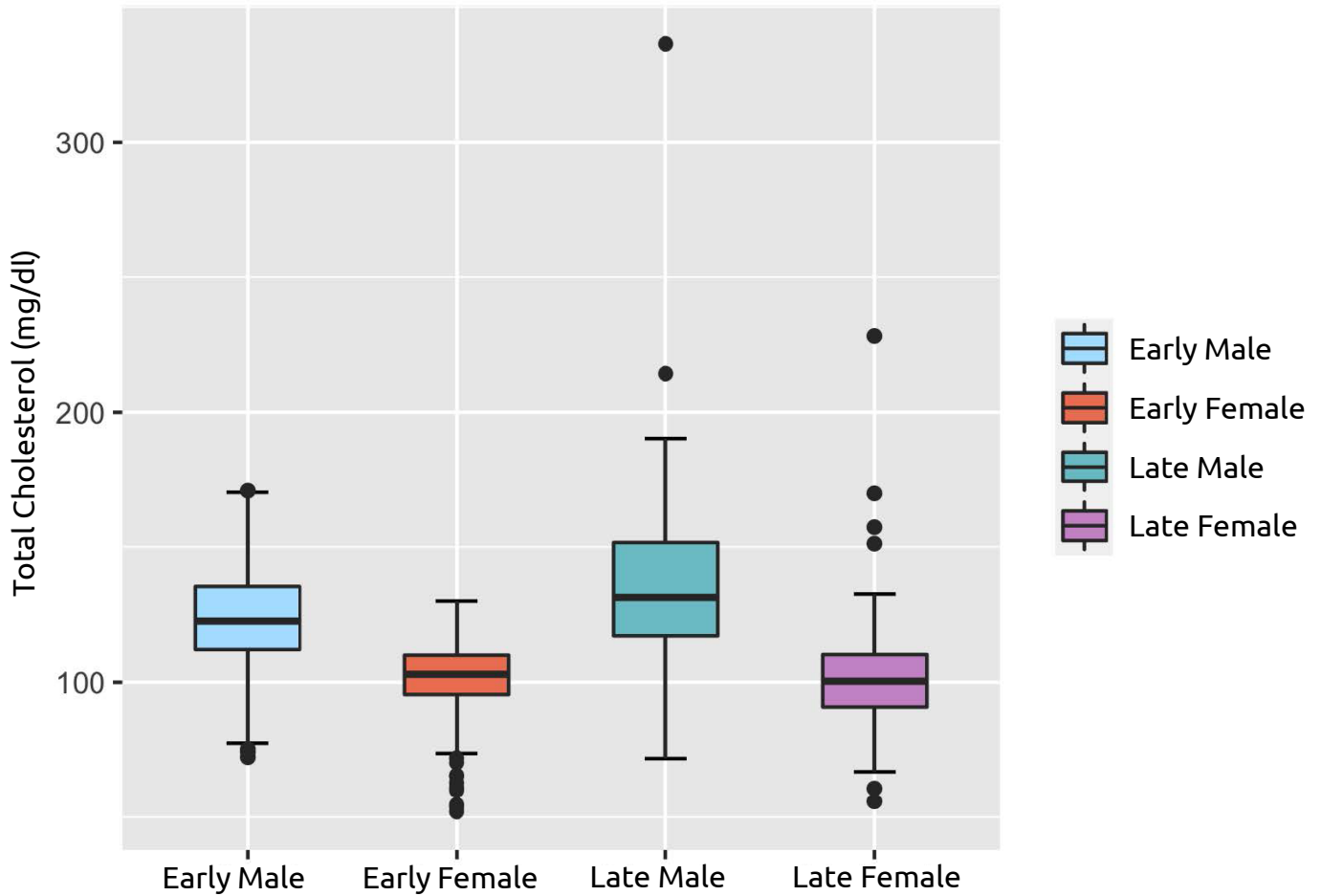
Alanine Aminotransferase (U/l)				
	Early		Late	
	M	F	M	F
Min	13.20	12.10	12.90	14.10
25%	20.70	17.60	25.00	22.35
50% (Median)	25.00	19.90	30.30	25.60
75%	33.80	22.70	36.92	35.45
Max	124.40	105.10	145.20	99.70
Mean	30.10	21.91	34.84	30.25
SD	15.88	10.24	19.64	14.11

Alkaline Phosphatase



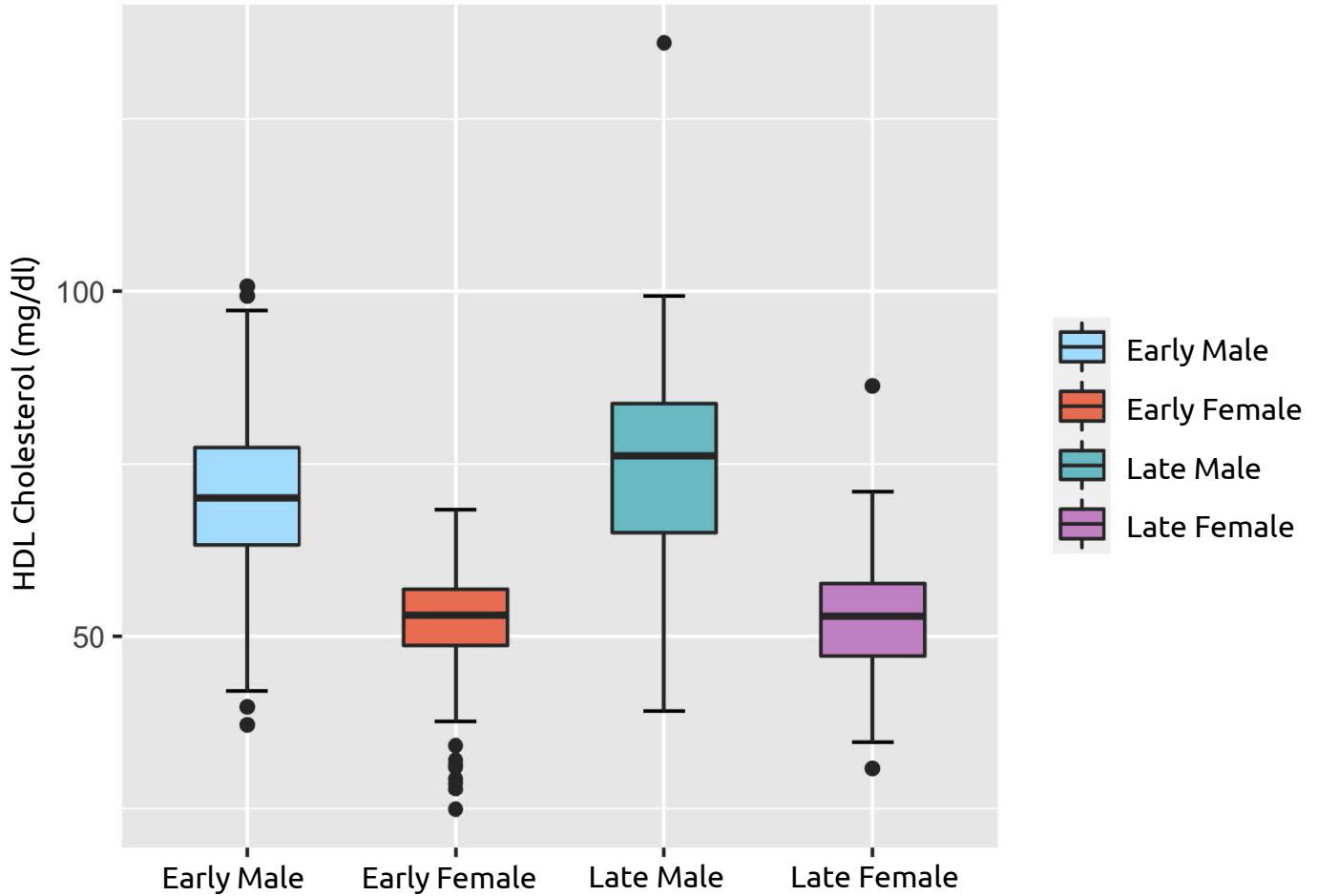
Alkaline Phosphatase (U/l)				
	Early		Late	
	M	F	M	F
Min	11.50	45.00	16.70	29.20
25%	38.80	63.27	33.85	49.28
50% (Median)	45.20	72.85	41.15	62.05
75%	52.20	83.72	48.27	79.42
Max	111.90	108.10	67.80	148.80
Mean	46.55	74.00	41.25	65.60
SD	11.16	14.34	10.28	23.58

Total Cholesterol



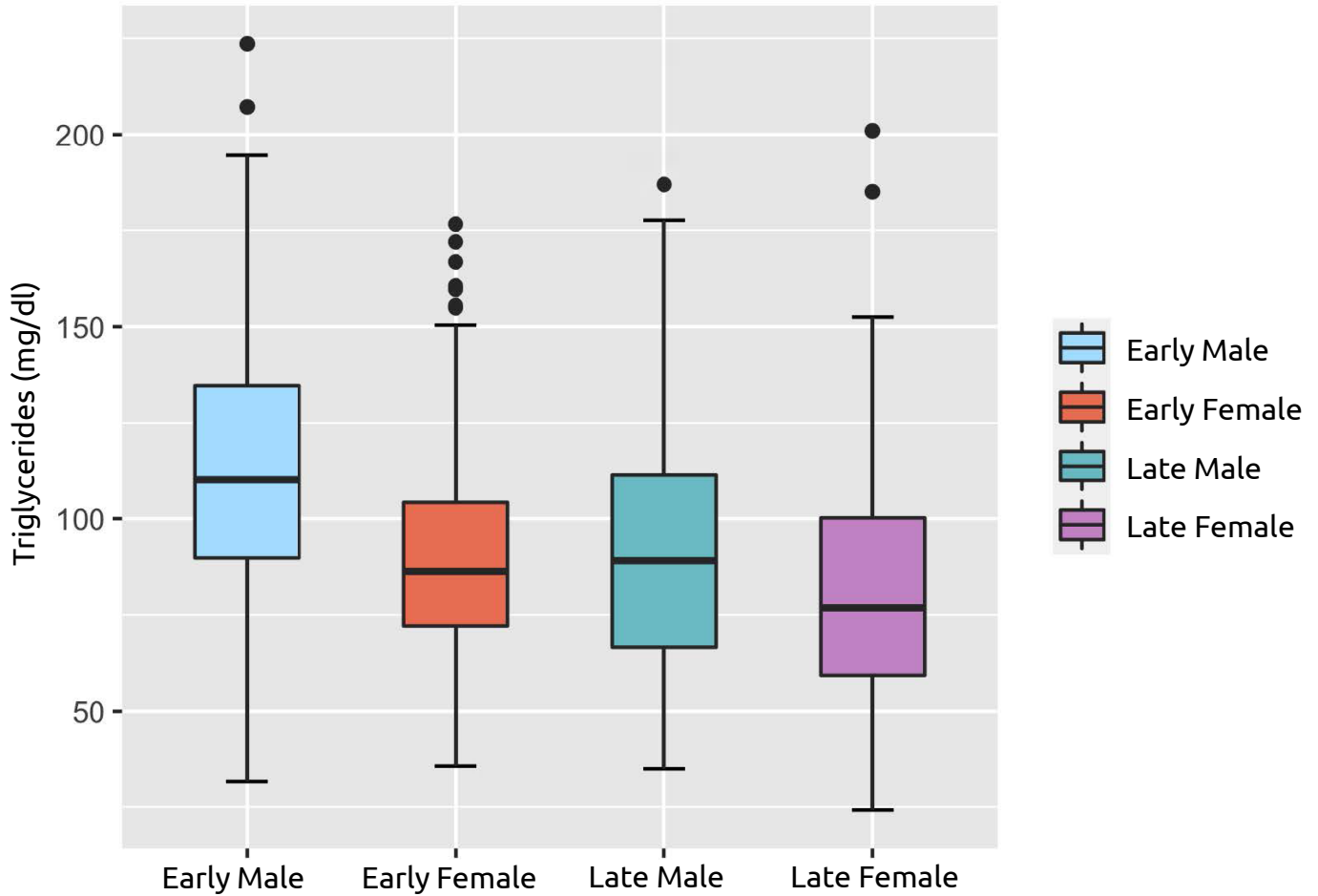
Total Cholesterol (mg/dl)				
	Early		Late	
	M	F	M	F
Min	72.30	52.00	71.80	55.80
25%	112.10	95.47	117.15	90.85
50% (Median)	122.60	102.95	131.35	100.40
75%	135.40	110.03	151.62	110.25
Max	170.80	130.00	336.40	228.20
Mean	123.32	101.13	138.50	102.84
SD	19.77	14.06	37.04	26.93

HDL Cholesterol



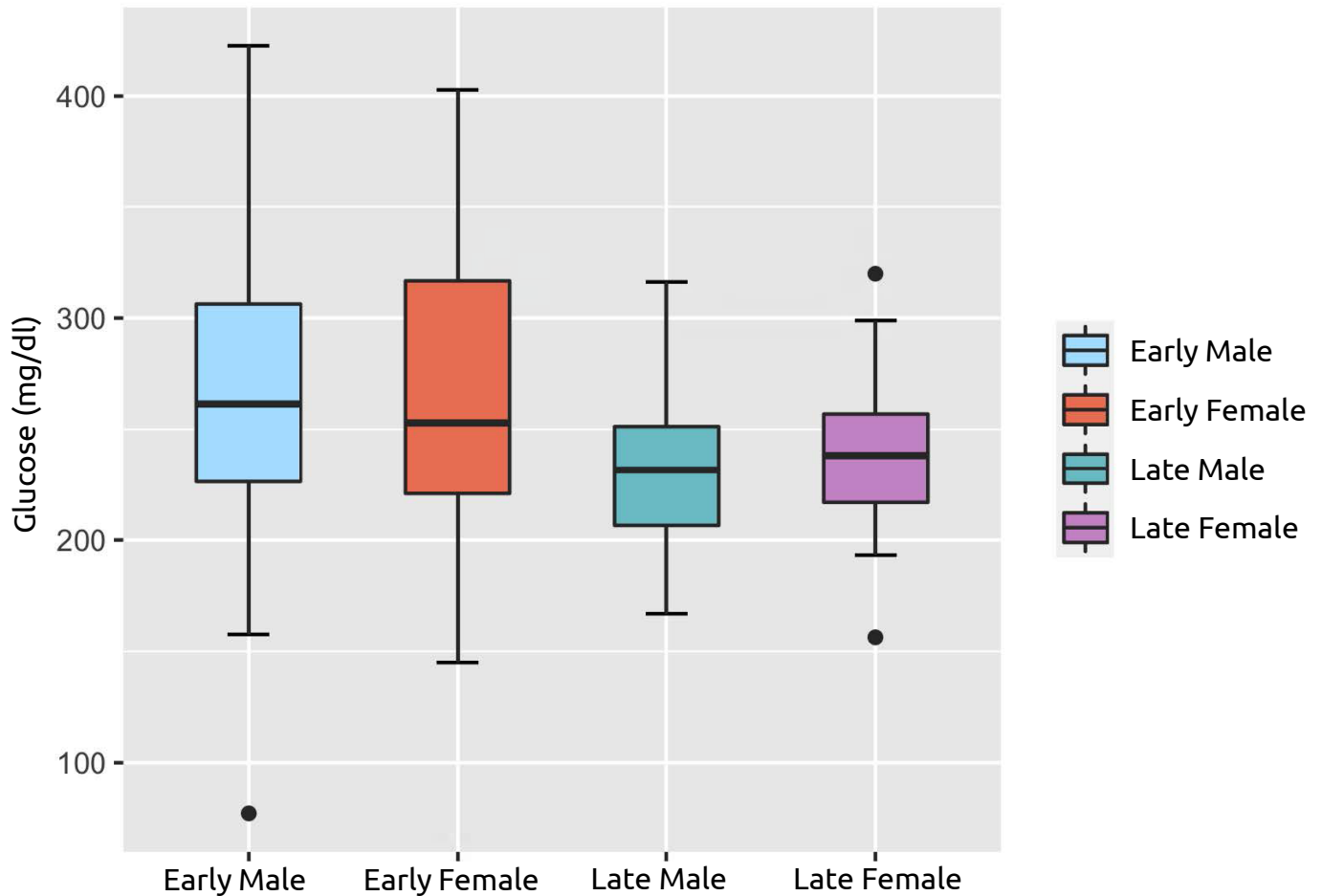
	HDL Cholesterol (mg/dl)			
	Early		Late	
	M	F	M	F
Min	37.20	24.90	39.20	30.90
25%	63.20	48.68	64.98	47.15
50% (Median)	70.00	53.05	76.20	57.90
75%	77.40	56.80	83.75	57.62
Max	100.70	68.30	136.00	86.30
Mean	69.98	52.20	75.14	52.19
SD	11.60	7.21	14.72	9.52

Triglycerides



Triglycerides (mg/dl)				
	Early		Late	
	M	F	M	F
Min	31.80	35.80	35.10	24.20
25%	89.80	72.15	66.62	59.32
50% (Median)	110.10	86.30	89.10	76.85
75%	134.70	104.22	111.32	100.20
Max	223.60	176.60	186.90	201.00
Mean	112.65	89.25	92.71	84.70
SD	33.18	26.47	34.06	34.23

Glucose



Glucose (mg/dl)				
	Early		Late	
	M	F	M	F
Min	76.90	145.00	166.90	156.30
25%	226.30	220.93	206.55	216.93
50% (Median)	261.40	252.90	231.60	238.20
75%	306.30	316.70	251.25	256.90
Max	422.60	402.80	316.20	319.90
Mean	263.36	265.62	231.01	239.46
SD	56.54	56.97	32.88	30.91

Clinical Chemistry Parameters Summary

Reference Intervals of Clinical Chemistry Parameters For Early Adult Control Mice (C57BL/6NCRl)

	Male			Female		
	2.5%	Median	97.5%	2.5%	Median	97.5%
Sodium (mmol/L)	143.20	149.20	153.50	138.09	146.50	151.77
Potassium (mmol/L)	4.38	5.14	6.02	3.82	4.91	5.73
Chloride (mmol/L)	106.80	111.00	115.20	106.24	111.80	115.29
Urea (mg/dl)	16.12	23.20	32.50	16.16	23.30	32.14
Creatinine (mg/dl)	0.08	0.16	0.24	0.12	0.18	0.23
Total Protein (g/l)	46.70	55.30	62.90	48.18	56.20	61.55
Albumin (g/l)	24.20	30.30	34.90	28.28	33.60	36.34
Total Bilirubin (mg/dl)	0.08	0.12	0.23	0.09	0.13	0.21
Calcium (mg/dl)	8.83	10.19	11.05	9.04	10.24	11.23
Phosphorus (mg/dl)	4.39	5.88	8.42	4.48	5.69	7.58
Aspartate Aminotransferase (U/l)	35.70	54.20	111.20	36.09	50.70	103.43
Alanin Aminotransferase (U/l)	16.00	25.00	79.30	13.70	19.90	41.85
Alkaline Phosphatase (U/l)	30.70	45.20	70.40	48.83	72.85	102.64
Total Cholesterol (mg/dl)	80.70	122.60	163.20	64.76	102.95	124.88
Hdl Cholesterol (mg/dl)	46.80	70.00	92.60	31.94	53.05	64.05
Triglycerides (mg/dl)	54.90	110.10	178.50	45.21	86.30	155.03
Glucose (mg/dl)	173.00	261.40	375.50	171.05	252.90	373.79

Clinical Chemistry Parameters Summary

Reference Intervals of Clinical Chemistry Parameters For Late Adult Control Mice (C57BL/6NCrI)

	Male			Female		
	2.5%	Median	97.5%	2.5%	Median	97.5%
Sodium (mmol/L)	143.90	151.30	156.30	137.44	148.60	153.44
Potassium (mmol/L)	4.70	5.38	6.09	4.25	4.92	5.79
Chloride (mmol/L)	106.62	112.70	116.97	107.50	112.80	118.27
Urea (mg/dl)	17.10	21.90	28.30	17.04	23.05	34.02
Creatinine (mg/dl)	0.09	0.13	0.18	0.11	0.16	0.22
Total Protein (g/l)	51.23	60.35	70.40	52.98	59.30	76.09
Albumin (g/l)	25.86	31.00	37.44	27.83	31.70	37.00
Total Bilirubin (mg/dl)	0.08	0.12	0.25	0.09	0.12	0.26
Calcium (mg/dl)	8.10	10.28	11.15	8.45	9.94	10.64
Phosphorus (mg/dl)	4.26	5.76	7.37	3.97	5.23	6.64
Aspartate Aminotransferase (U/l)	38.95	51.20	109.95	44.88	62.55	149.87
Alanine Aminotransferase (U/l)	16.49	30.30	83.12	15.19	25.60	62.29
Alkaline Phosphatase (U/l)	21.10	41.15	60.14	34.95	62.05	118.81
Total Cholesterol (mg/dl)	92.39	131.35	199.30	63.65	100.40	163.86
Hdl Cholesterol (mg/dl)	48.75	76.20	98.42	34.80	52.90	68.81
Triglycerides (mg/dl)	41.08	89.10	170.91	41.01	76.85	169.56
Glucose (mg/dl)	178.55	231.60	295.45	195.38	238.20	295.00

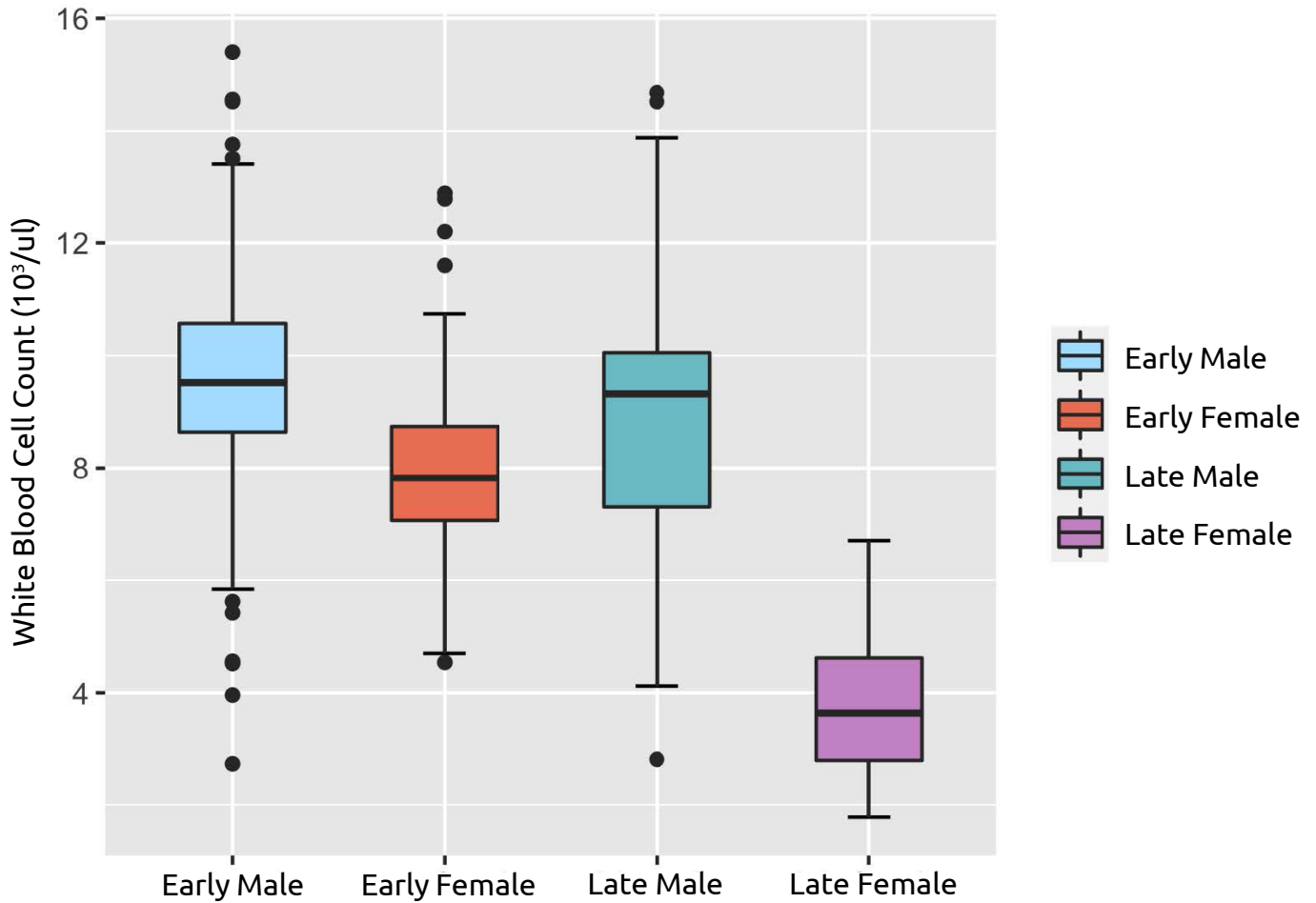
Hematology

Historical data from multiple studies of aging pipeline on early (16 weeks old) and late (59 weeks old) adult control C57BL/6NCrl mice is summarized in the following charts and reference tables. Each are provided in terms of phenotypic characteristics assessed by the International Mouse Phenotyping Consortium (IMPC) following standardized protocols. The goal was to determine typical phenotypic ranges for early and late adult control mice. This reference data was collected over time at The Centre for Phenogenomics (TCP), Toronto, ON Canada and is shown in descriptive summary tables of hematology parameters.

Animal (C57BL/6NCrl) Study Parameters

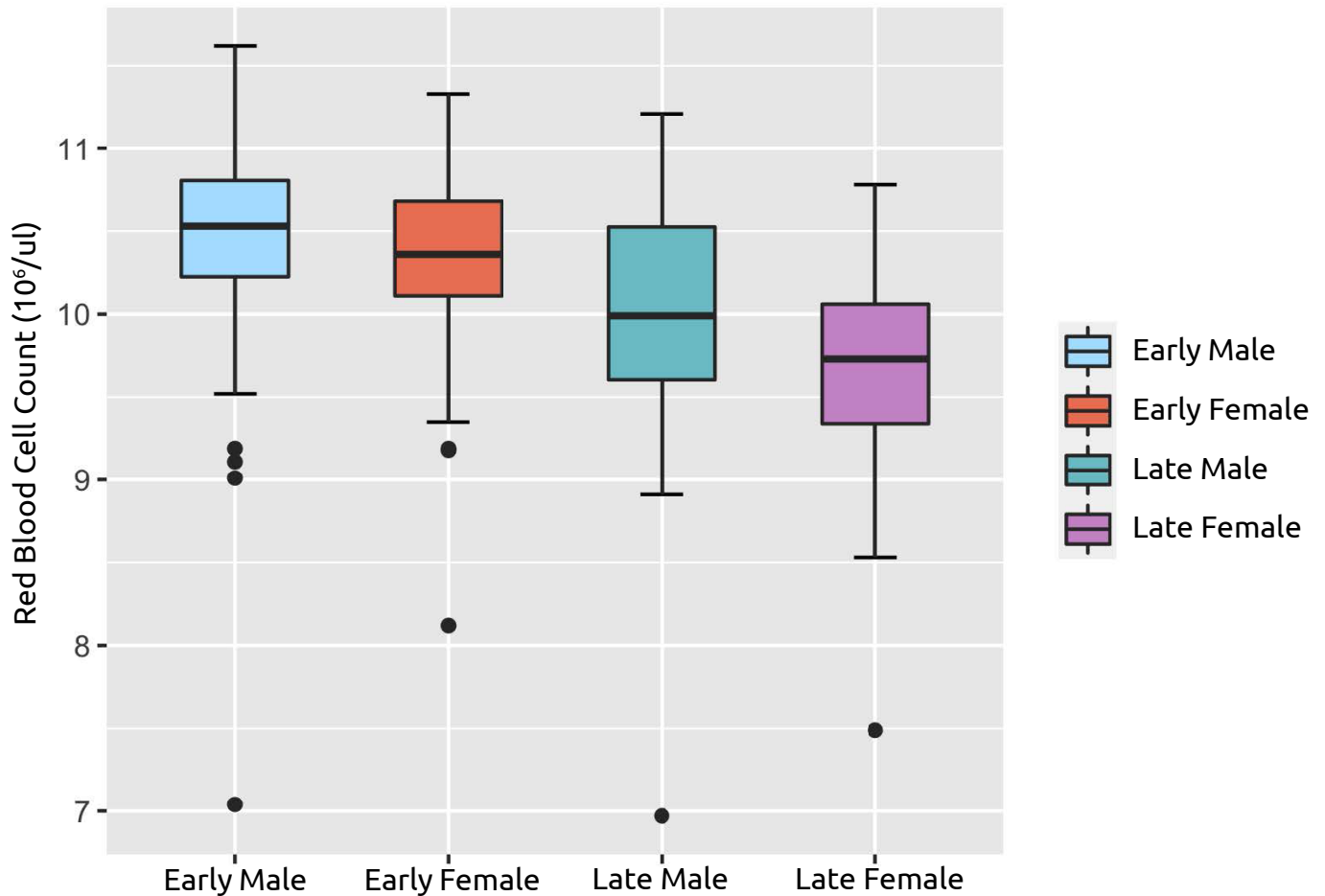
Pipeline	Sex	Test Dates (earliest/latest)	Test Week	Sample Size (n = 554)
Early	Male	2017-11-20 / 2020-04-28	16	199
	Female	2017-11-20 / 2020-04-29	16	227
Late	Male	2017-11-27 / 2020-04-28	59	63
	Female	2018-01-10 / 2020-04-07	59	65

White Blood Cell Count



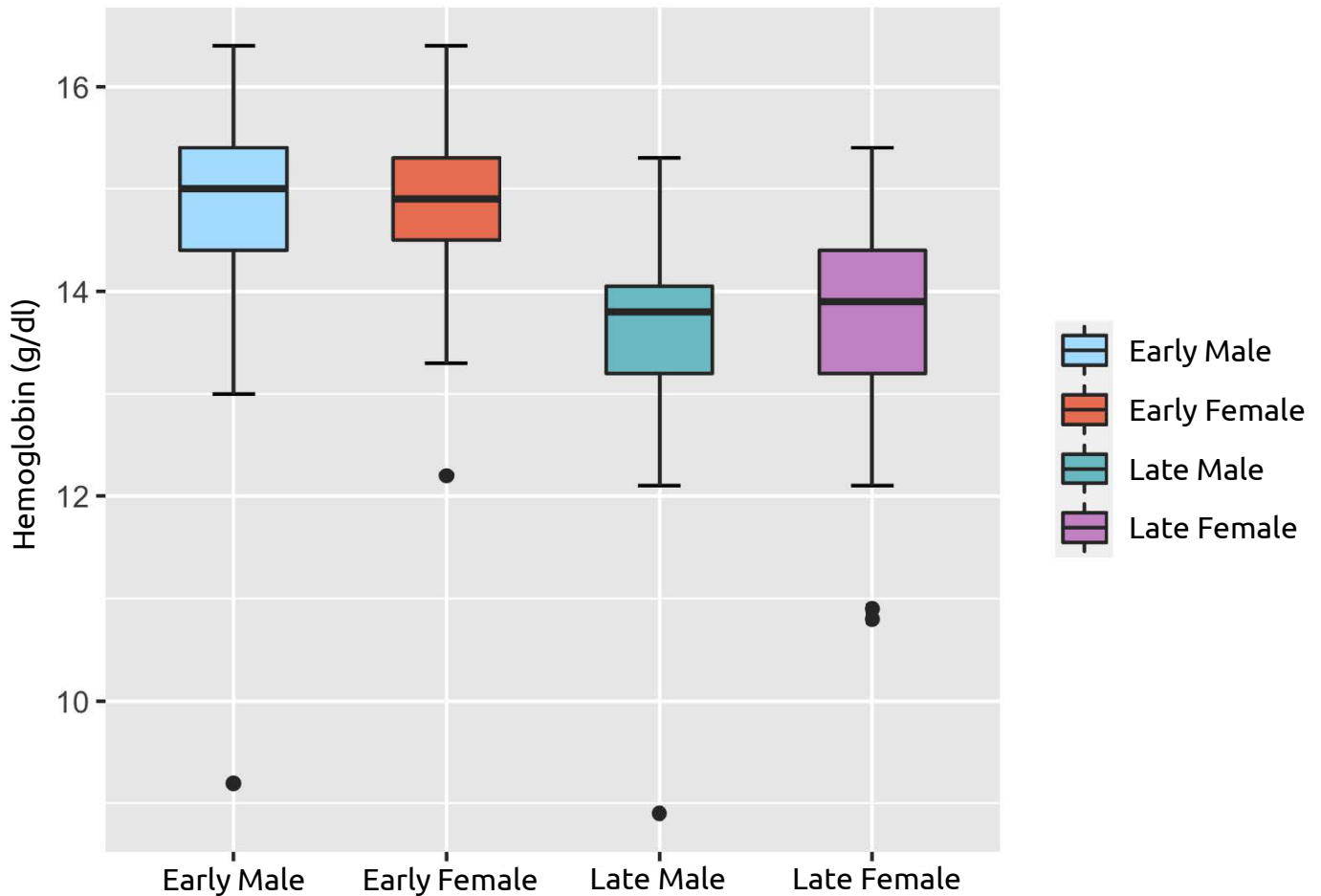
White Blood Cell Count ($10^3/\text{ul}$)				
	Early		Late	
	M	F	M	F
Min	2.74	4.54	2.82	1.78
25%	8.64	7.06	7.30	2.80
50% (Median)	9.52	7.82	9.32	3.64
75%	10.57	8.74	10.05	4.62
Max	15.40	12.88	14.68	6.70
Mean	9.54	7.90	8.73	3.82
SD	1.92	1.36	2.49	1.17

Red Blood Cell Count



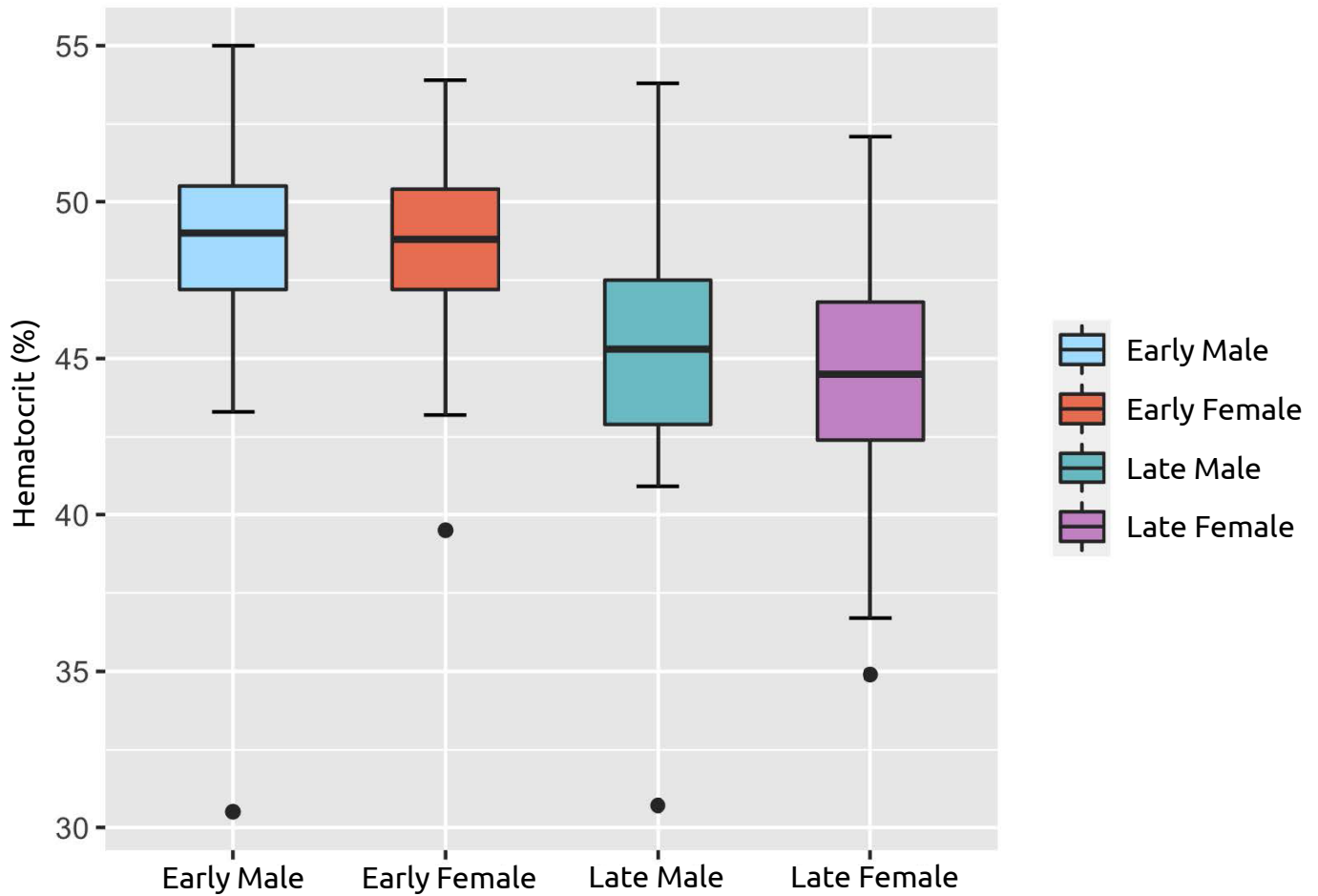
Red Blood Cell Count ($10^6/\text{ul}$)				
	Early		Late	
	M	F	M	F
Min	7.04	8.12	6.97	7.49
25%	10.23	10.11	9.61	9.34
50% (Median)	10.53	10.36	9.99	9.73
75%	10.80	10.68	10.52	10.06
Max	11.62	11.33	11.21	10.78
Mean	10.49	10.36	9.99	9.70
SD	0.51	0.42	0.68	0.61

Hemoglobin



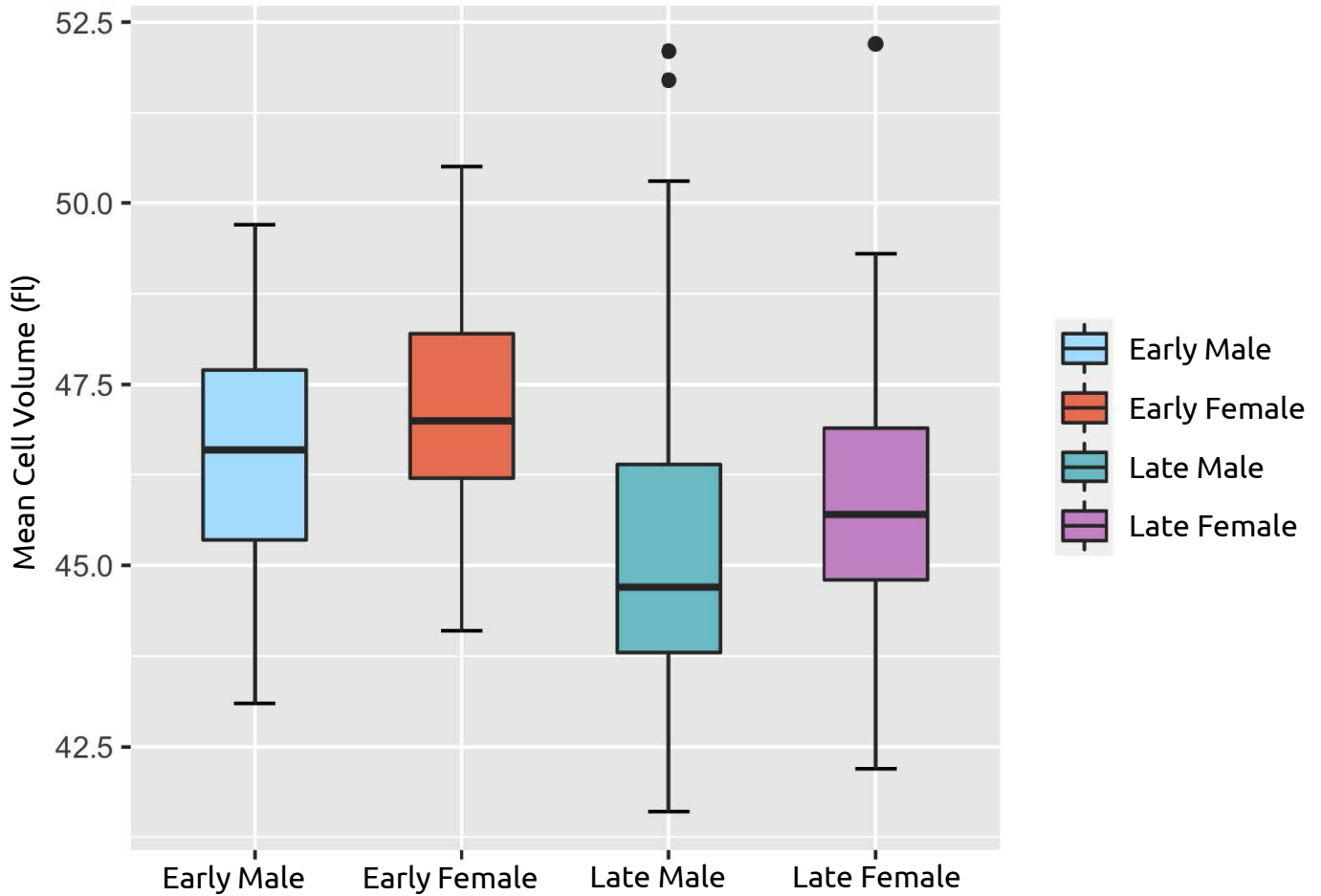
	Hemoglobin (g/dl)			
	Early		Late	
	M	F	M	F
Min	9.20	12.20	8.90	10.80
25%	14.40	14.50	13.20	13.20
50% (Median)	15.00	14.90	13.80	13.90
75%	15.40	15.30	14.05	14.40
Max	16.40	16.40	15.30	15.40
Mean	14.85	14.90	13.61	13.76
SD	0.77	0.58	0.90	0.89

Hematocrit



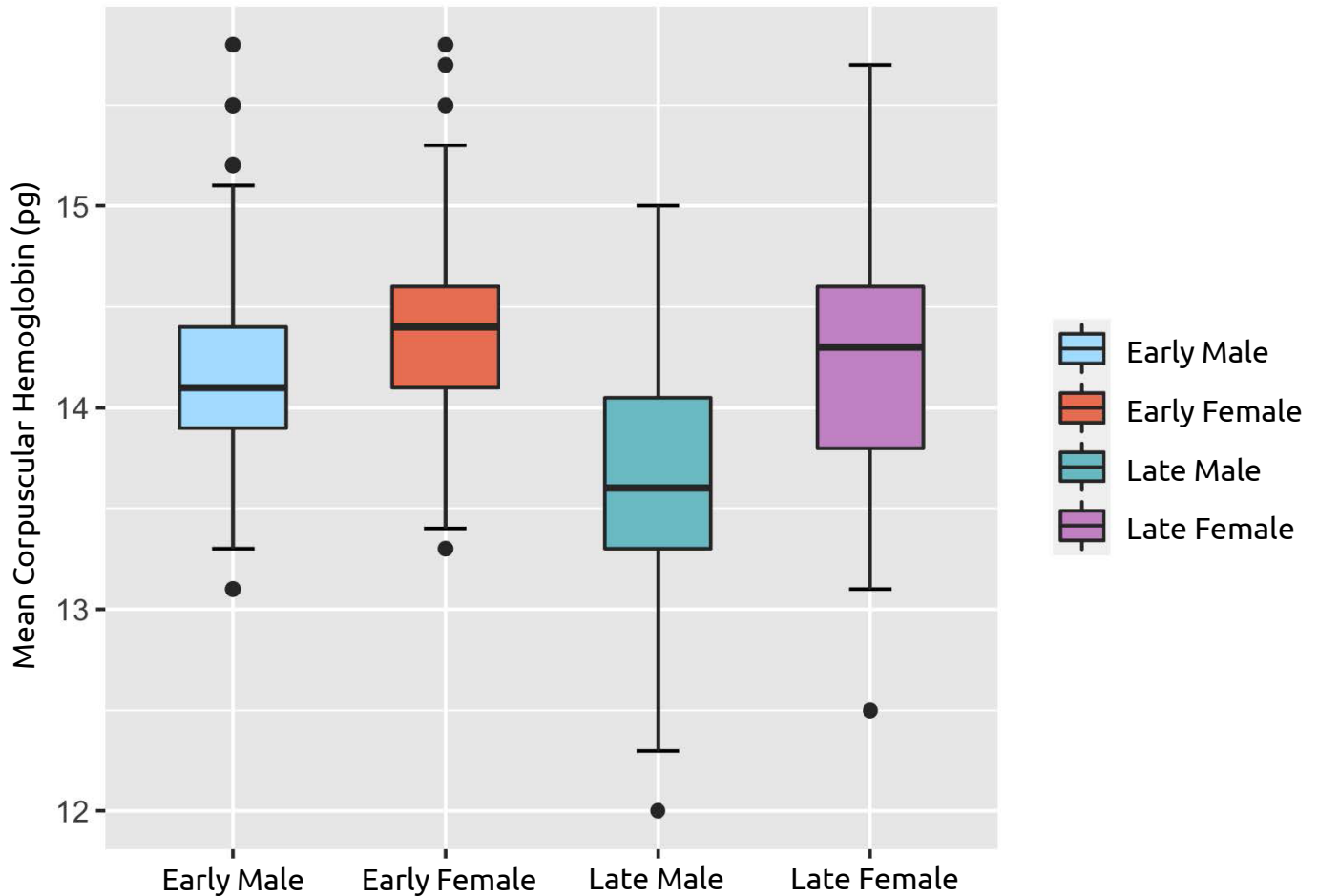
	Hematocrit (%)			
	Early		Late	
	M	F	M	F
Min	30.50	39.50	30.70	34.90
25%	47.20	47.20	42.90	42.40
50% (Median)	49.00	48.80	45.30	44.50
75%	50.50	50.40	47.50	46.80
Max	55.00	53.90	53.80	52.10
Mean	48.81	48.85	45.24	44.53
SD	2.76	2.36	3.57	3.28

Mean Cell Volume



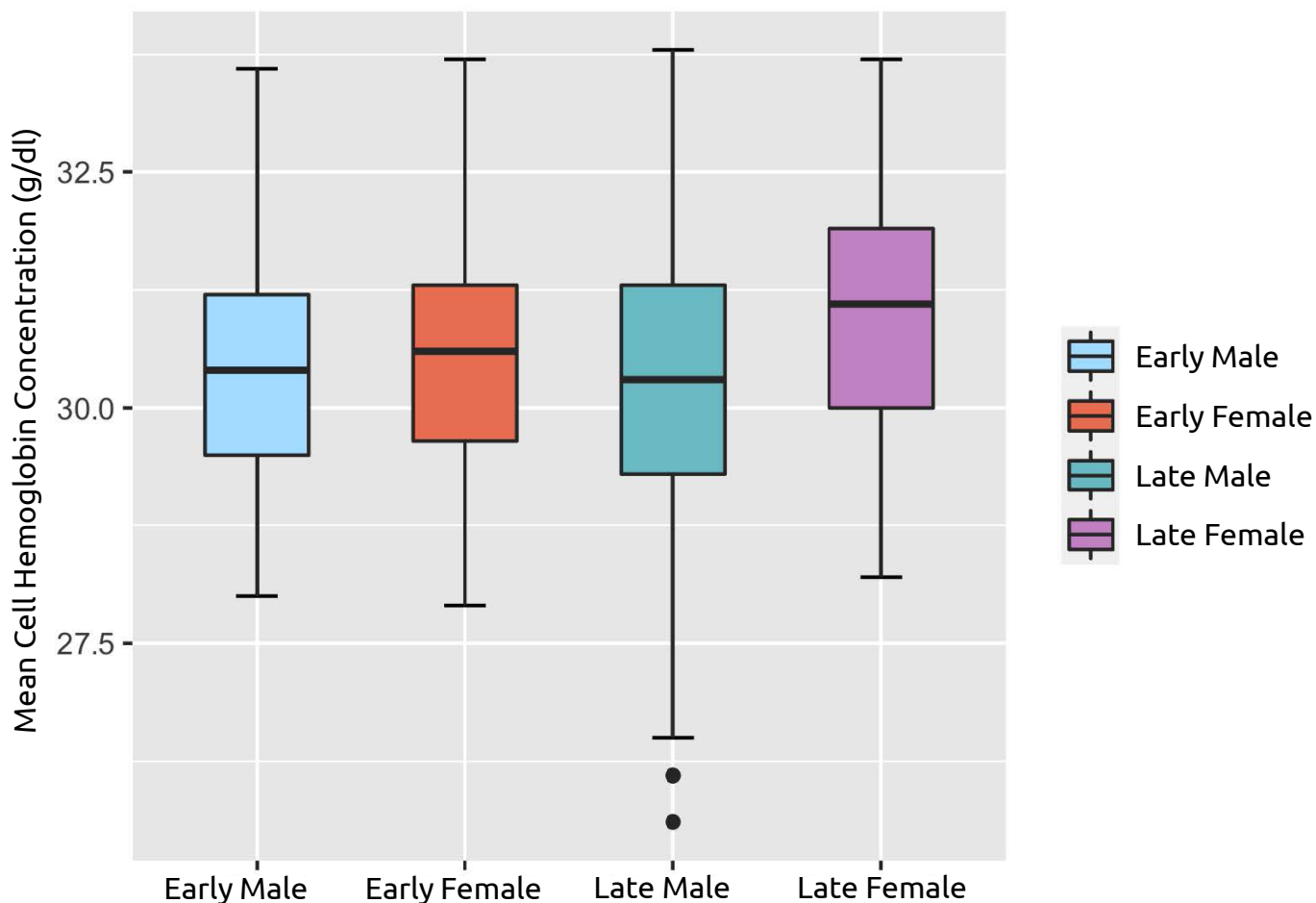
Mean Cell Volume (fl)				
	Early		Late	
	M	F	M	F
Min	43.10	44.10	41.60	42.20
25%	45.35	46.20	43.80	44.80
50% (Median)	46.60	47.00	44.70	45.70
75%	47.70	48.20	46.40	46.90
Max	49.70	50.50	52.10	52.20
Mean	46.55	47.17	45.31	45.92
SD	1.54	1.24	2.30	1.84

Mean Corpuscular Hemoglobin



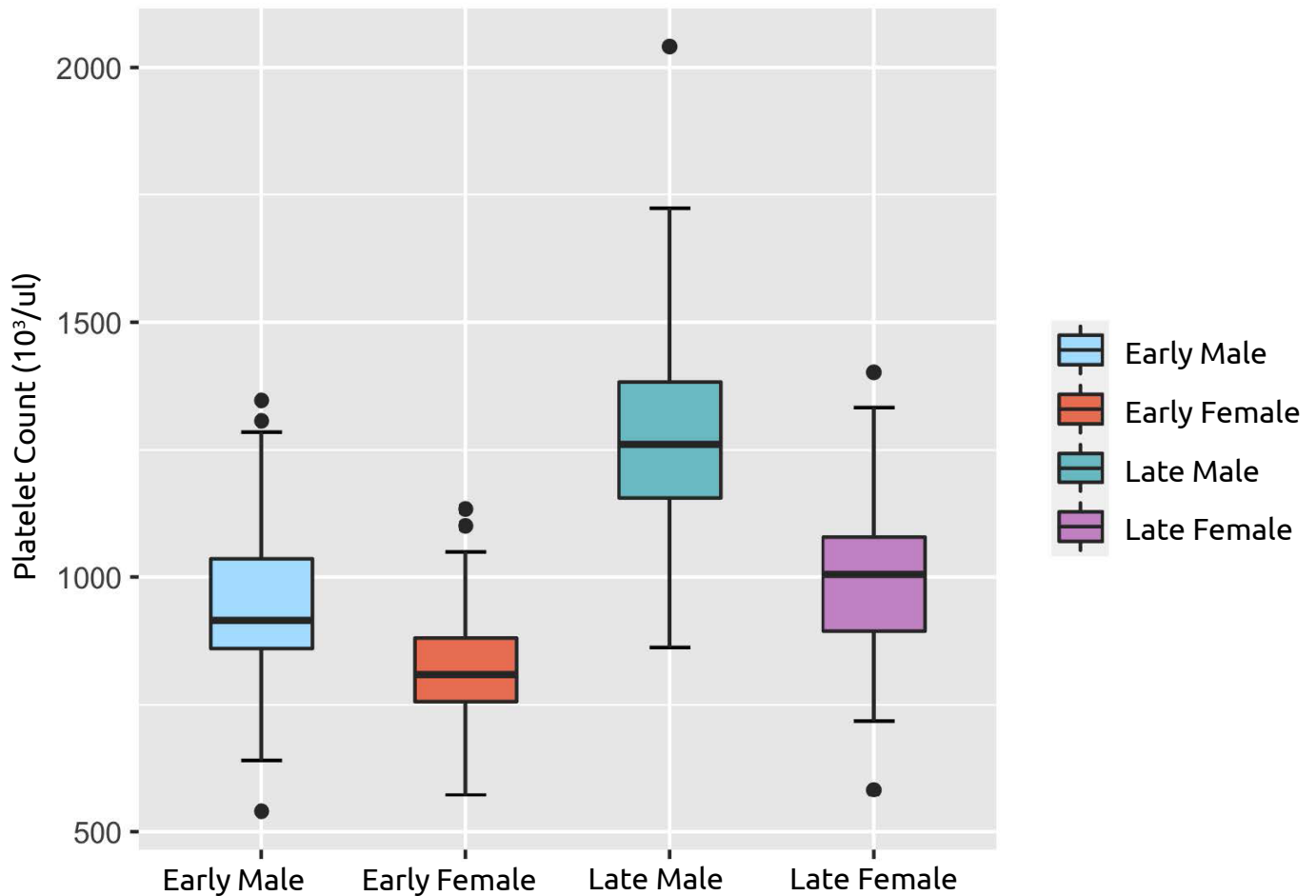
	Mean Corpuscular Hemoglobin (pg)			
	Early		Late	
	M	F	M	F
Min	13.10	13.30	12.00	12.50
25%	13.90	14.10	13.30	13.80
50% (Median)	14.10	14.40	13.60	14.30
75%	14.40	14.60	14.05	14.60
Max	15.80	15.80	15.00	15.70
Mean	14.16	14.39	13.63	14.20
SD	0.39	0.38	0.64	0.57

Mean Cell Hemoglobin Concentration



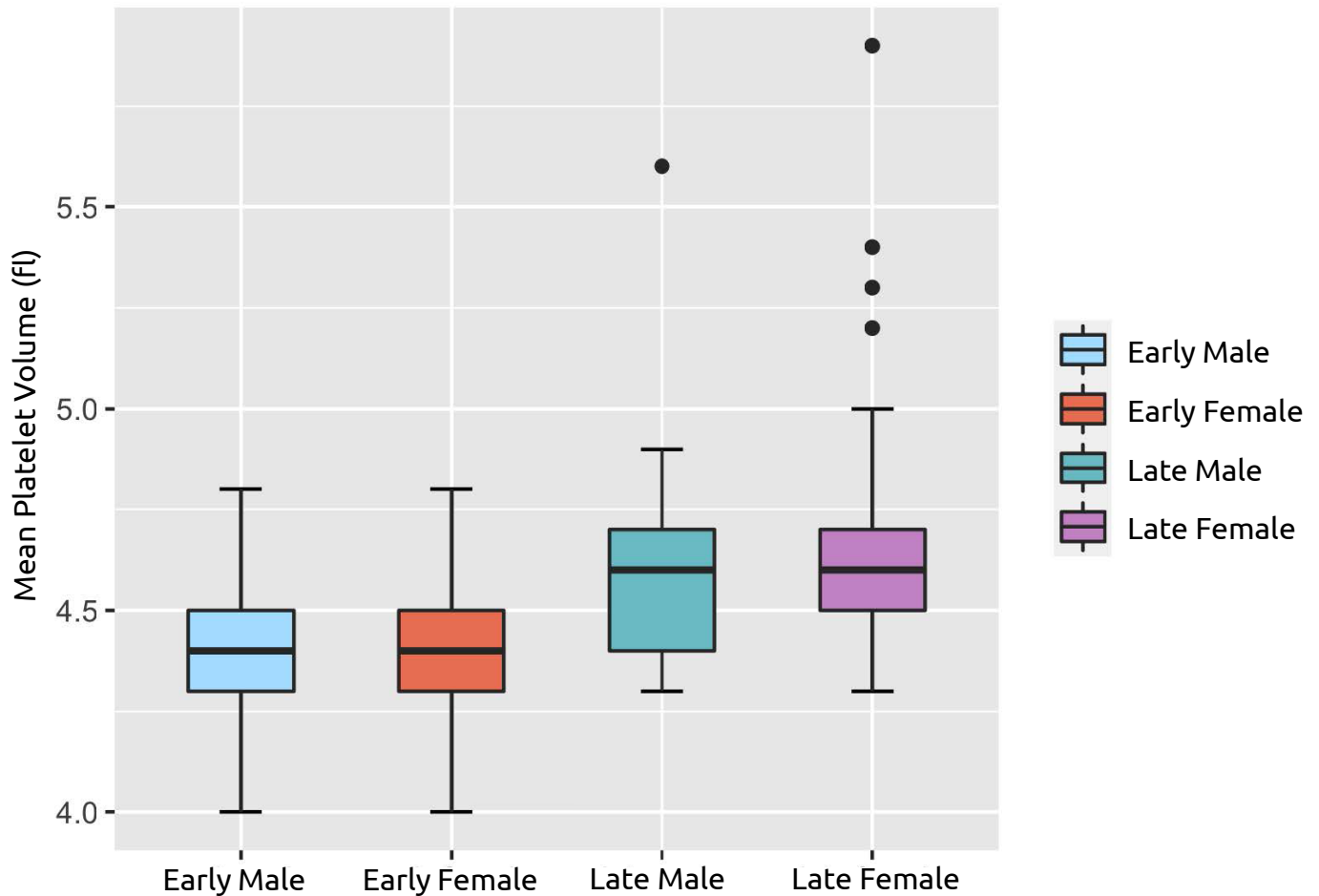
Mean Cell Hemoglobin Concentration (g/dl)				
	Early		Late	
	M	F	M	F
Min	28.00	27.90	25.60	28.20
25%	29.50	29.65	29.30	30.00
50% (Median)	30.40	30.60	30.30	31.10
75%	31.20	31.30	31.30	31.90
Max	33.60	33.70	33.80	33.70
Mean	30.44	30.53	30.16	30.94
SD	1.17	1.12	1.82	1.26

Platelet Count



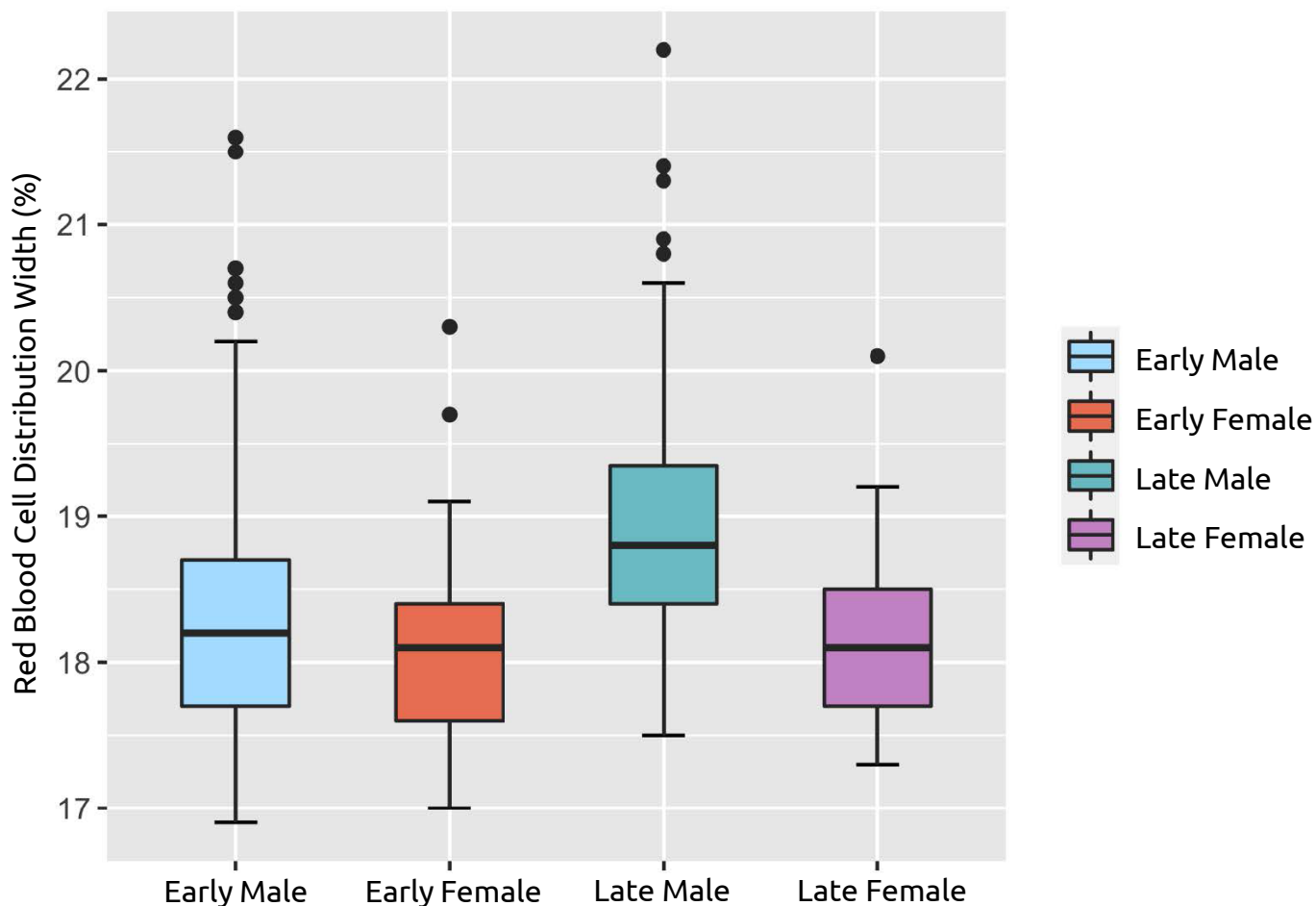
Platelet Count (10 ³ /ul)				
	Early		Late	
	M	F	M	F
Min	540.00	573.00	862.00	583.00
25%	860.00	756.00	1154.50	894.00
50% (Median)	915.00	809.00	1261.00	1005.00
75%	1035.50	880.50	1383.00	1078.00
Max	1347.00	1133.00	2041.00	1402.00
Mean	948.91	814.34	1290.90	1008.72
SD	130.46	91.95	198.61	171.60

Mean Platelet Volume



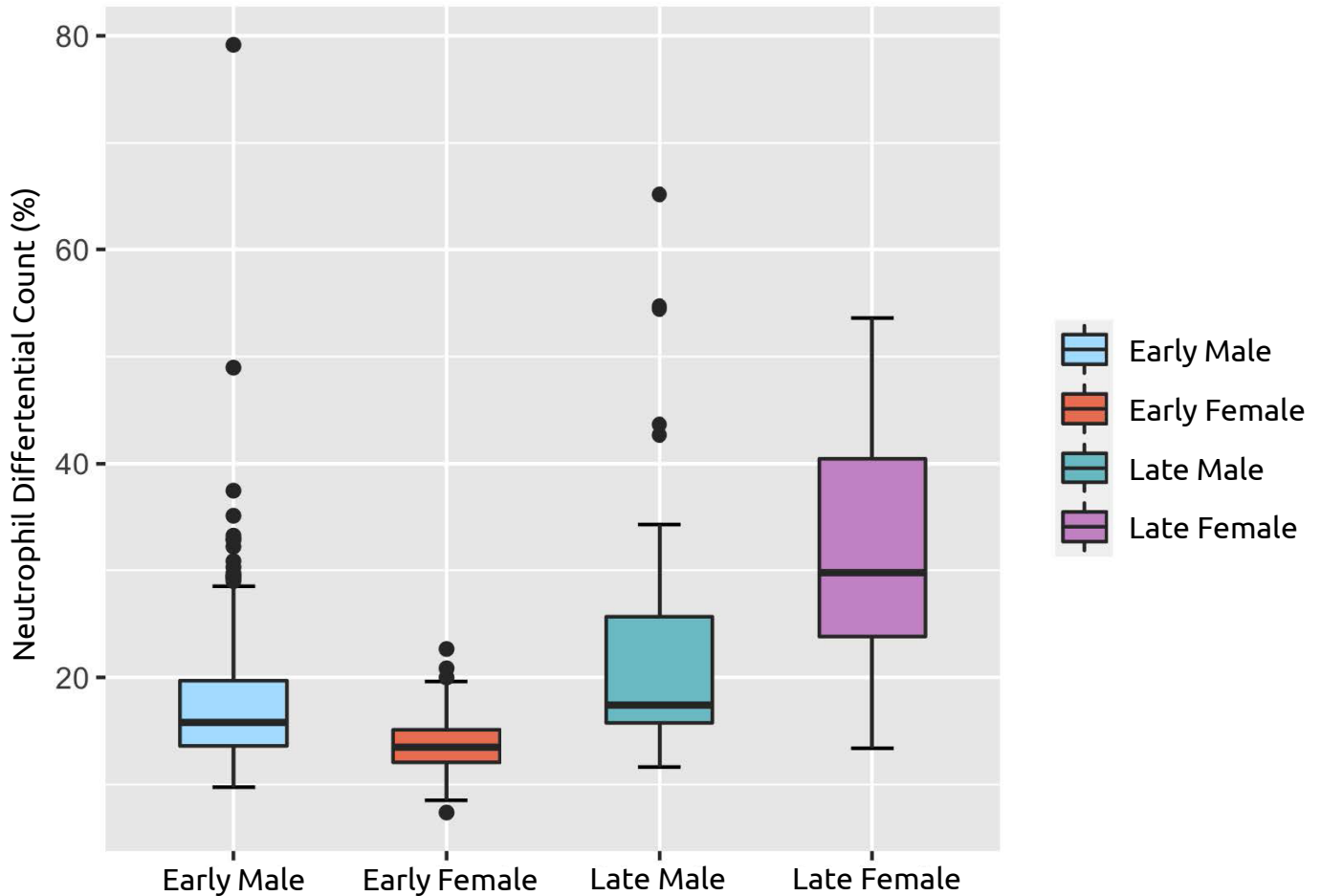
Mean Platelet Volume (fl)				
	Early		Late	
	M	F	M	F
Min	4.00	4.00	4.30	4.30
25%	4.30	4.30	4.40	4.50
50% (Median)	4.40	4.40	4.60	4.60
75%	4.50	4.50	4.70	4.70
Max	4.80	4.80	5.60	5.90
Mean	4.38	4.39	4.59	4.68
SD	0.14	0.13	0.21	0.25

Red Blood Cell Distribution Width



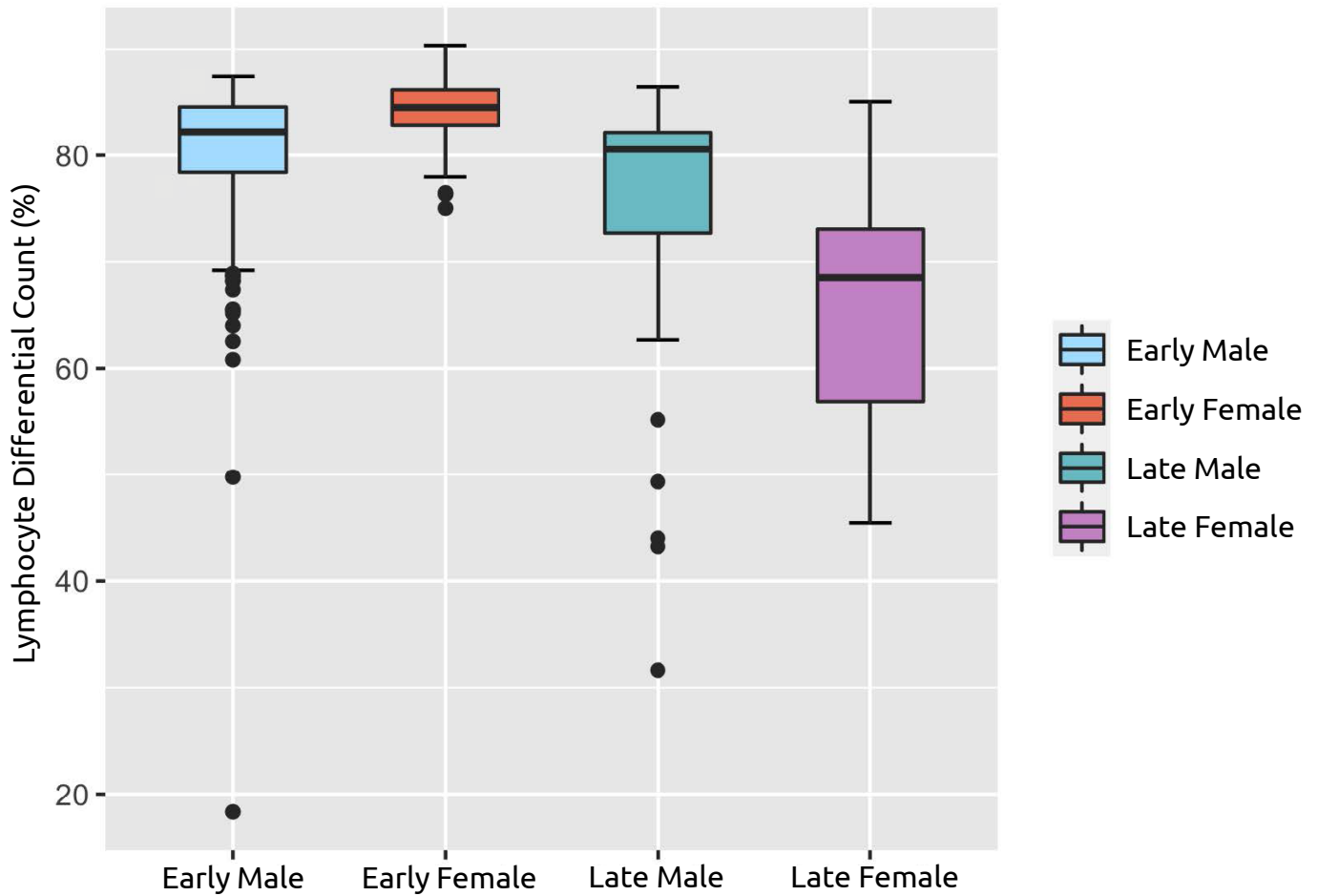
Red Blood Cell Distribution Width (%)				
	Early		Late	
	M	F	M	F
Min	16.90	17.00	17.50	17.30
25%	17.70	17.60	18.40	17.70
50% (Median)	18.20	18.10	18.80	18.10
75%	18.70	18.40	19.35	18.50
Max	21.60	20.30	22.20	20.10
Mean	18.32	18.04	19.02	18.11
SD	0.87	0.52	1.00	0.54

Neutrophil Differential Count



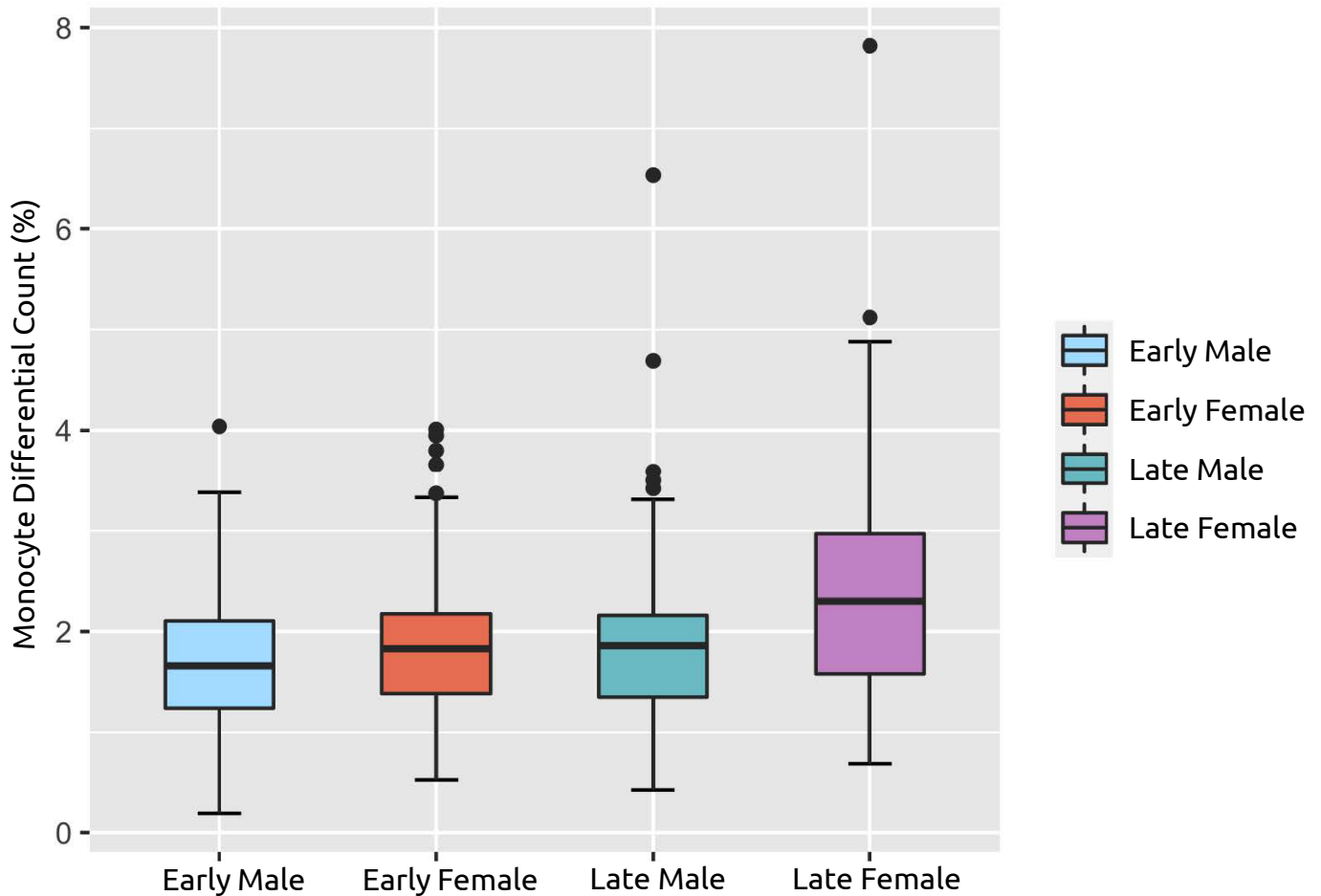
Neutrophil Differential Count (%)				
	Early		Late	
	M	F	M	F
Min	9.76	7.32	11.64	13.39
25%	13.61	12.08	15.75	23.81
50% (Median)	15.80	13.49	17.42	29.77
75%	19.70	15.12	25.66	40.47
Max	79.16	22.65	65.13	53.60
Mean	17.95	13.61	21.72	31.51
SD	7.46	2.34	10.67	9.47

Lymphocyte Differential Count



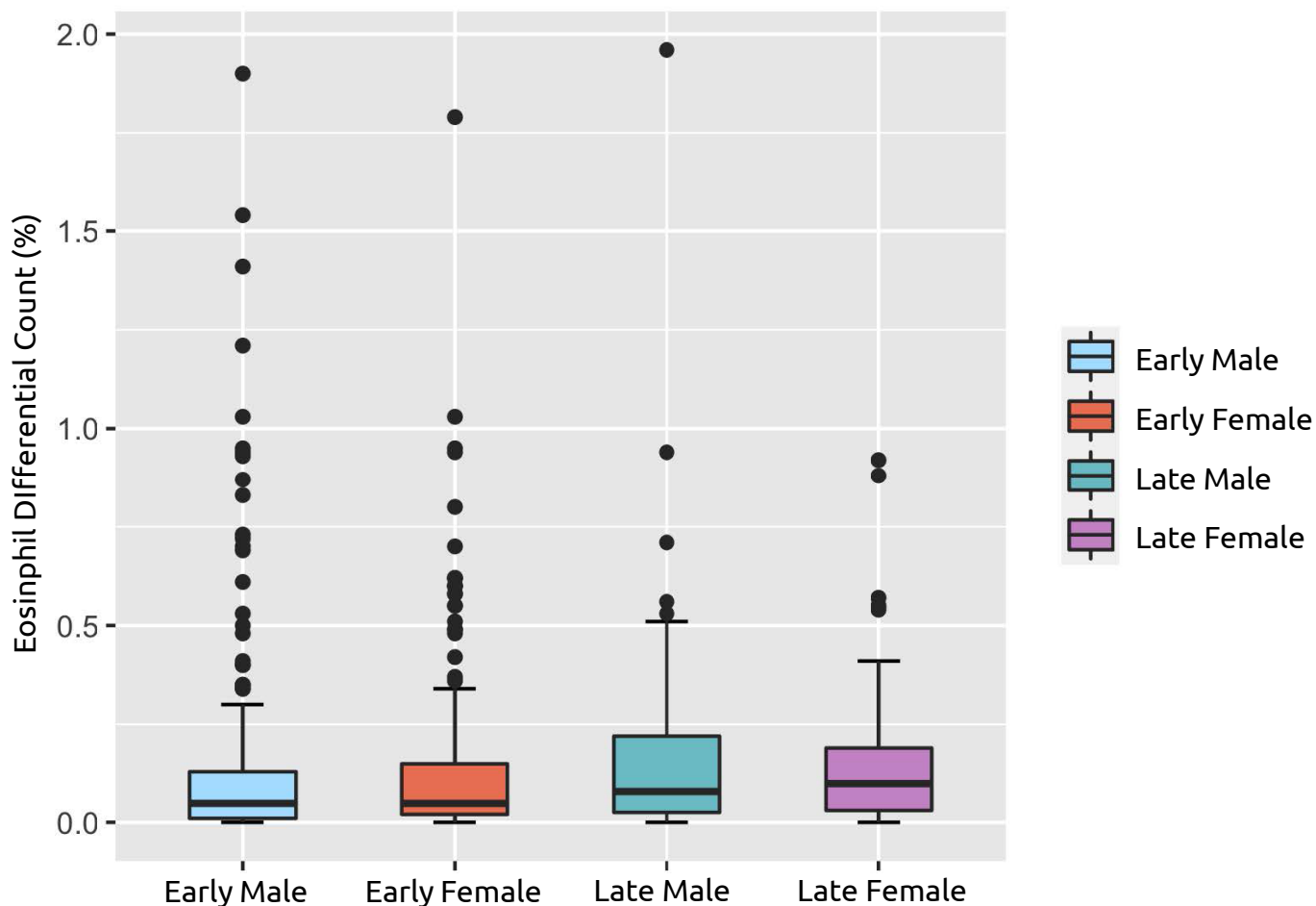
Lymphocyte Differential Count (%)				
	Early		Late	
	M	F	M	F
Min	18.30	75.02	31.64	45.45
25%	78.39	82.88	72.69	56.89
50% (Median)	82.24	84.53	80.58	68.52
75%	84.58	86.19	82.18	73.06
Max	87.45	90.33	86.47	85.08
Mean	80.14	84.37	76.08	65.80
SD	7.50	2.52	10.92	9.56

Monocyte Differential Count



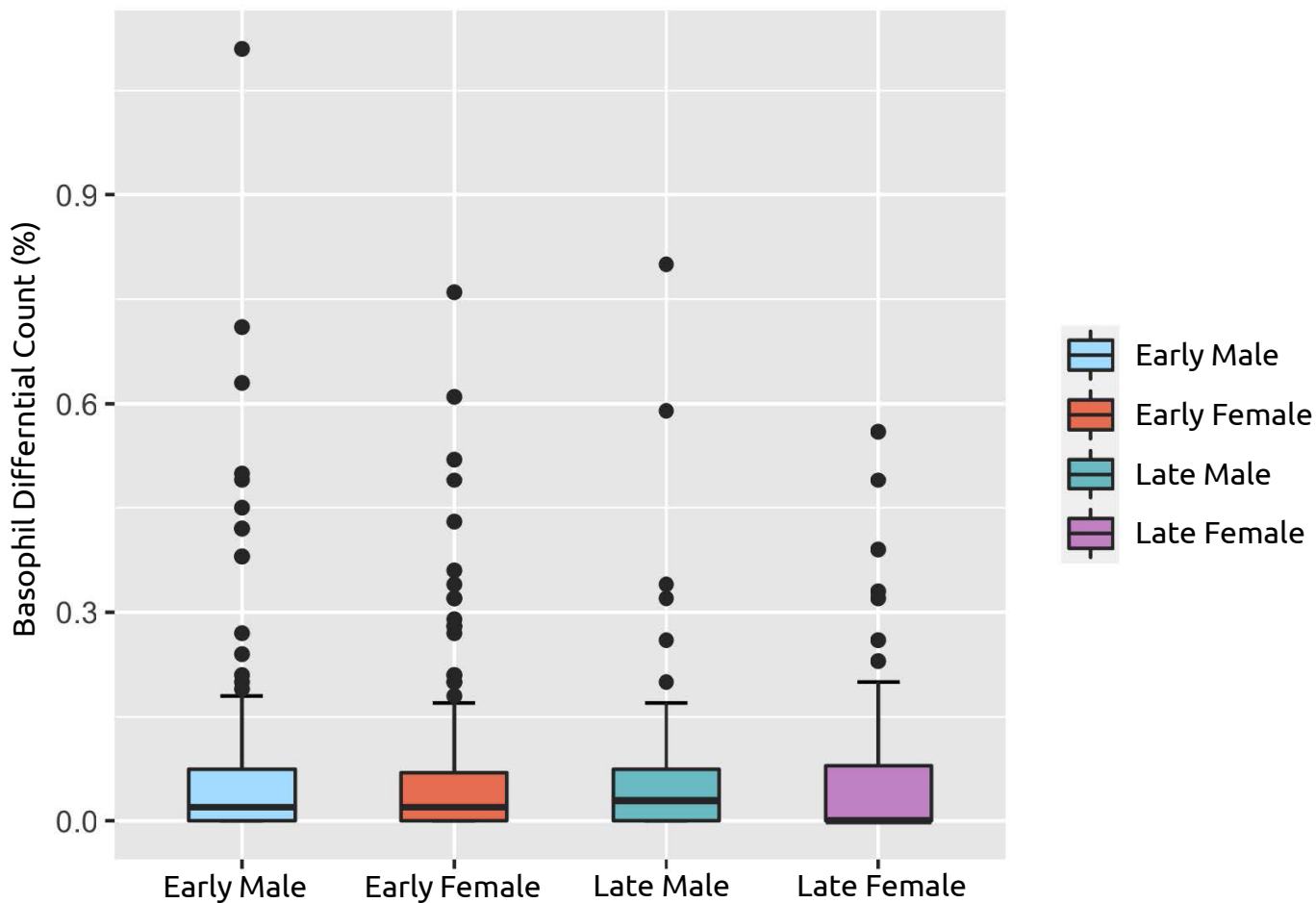
Monocyte Differential Count (%)				
	Early		Late	
	M	F	M	F
Min	0.19	0.53	0.43	0.69
25%	1.24	1.38	1.35	1.58
50% (Median)	1.66	1.83	1.86	2.30
75%	2.10	2.17	2.16	2.97
Max	4.04	4.01	6.53	7.82
Mean	1.70	1.83	1.94	2.46
SD	0.62	0.65	0.98	1.24

Eosinophil Differential Count



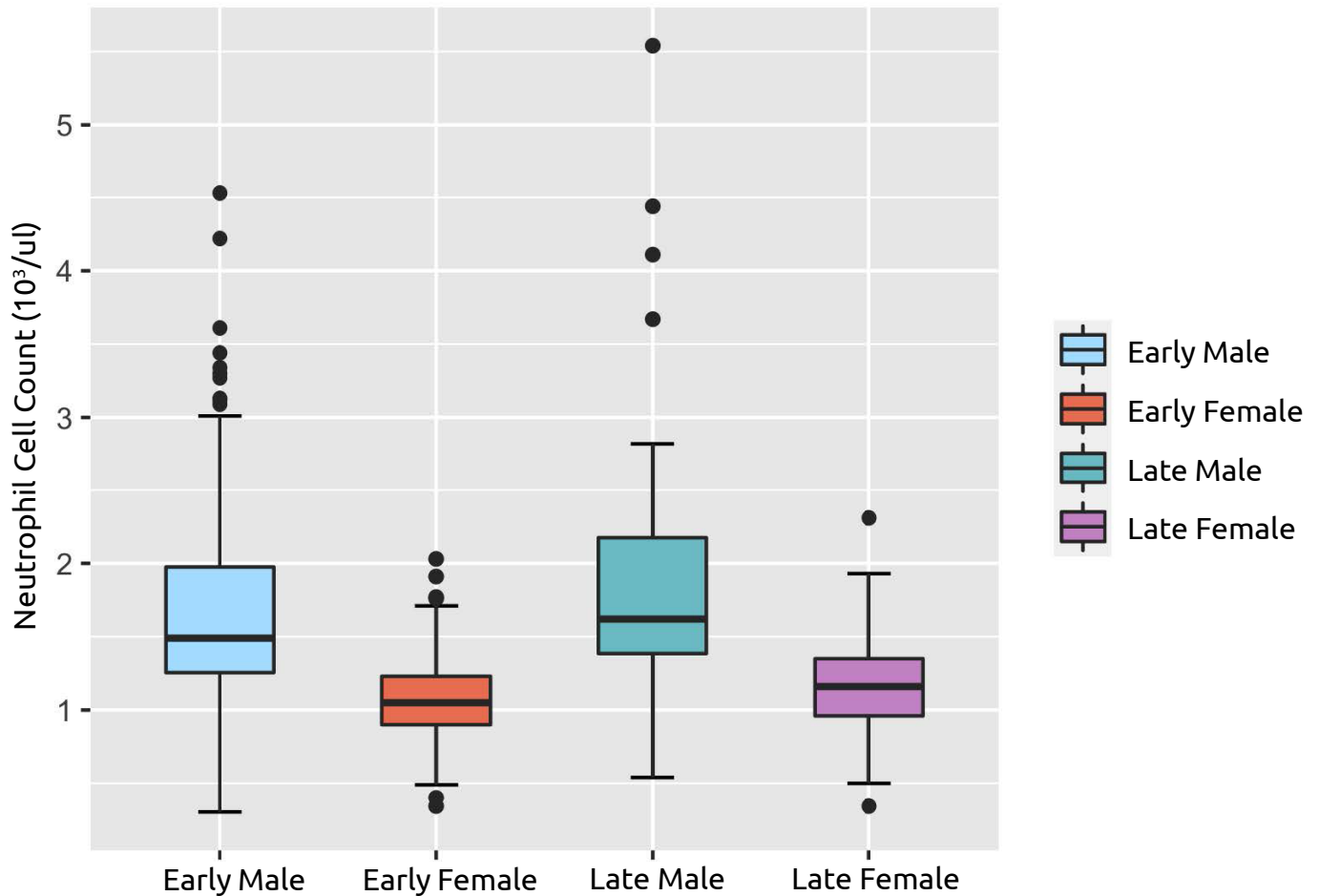
Eosinophil Differential Count (%)				
	Early		Late	
	M	F	M	F
Min	0.00	0.00	0.00	0.00
25%	0.01	0.02	0.02	0.03
50% (Median)	0.05	0.05	0.08	0.10
75%	0.13	0.15	0.22	0.19
Max	1.90	1.79	1.96	0.92
Mean	0.15	0.13	0.18	0.16
SD	0.28	0.22	0.30	0.20

Basophil Differential Count



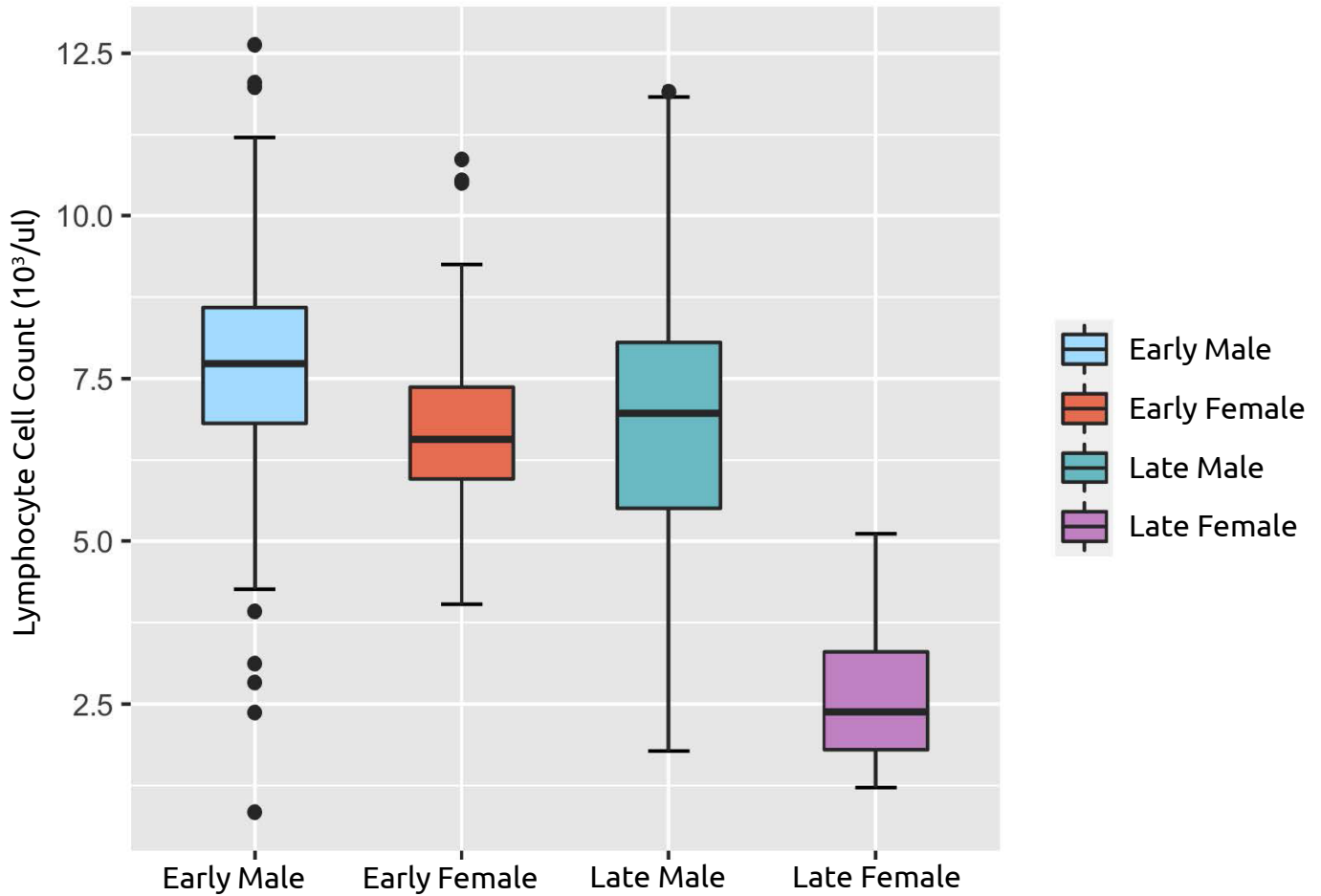
Basophil Differential Count (%)				
	Early		Late	
	M	F	M	F
Min	0.00	0.00	0.00	0.00
25%	0.00	0.00	0.00	0.00
50% (Median)	0.02	0.02	0.03	0.00
75%	0.08	0.07	0.08	0.08
Max	1.11	0.76	0.80	0.56
Mean	0.06	0.06	0.07	0.07
SD	0.13	0.11	0.14	0.12

Neutrophil Cell Count



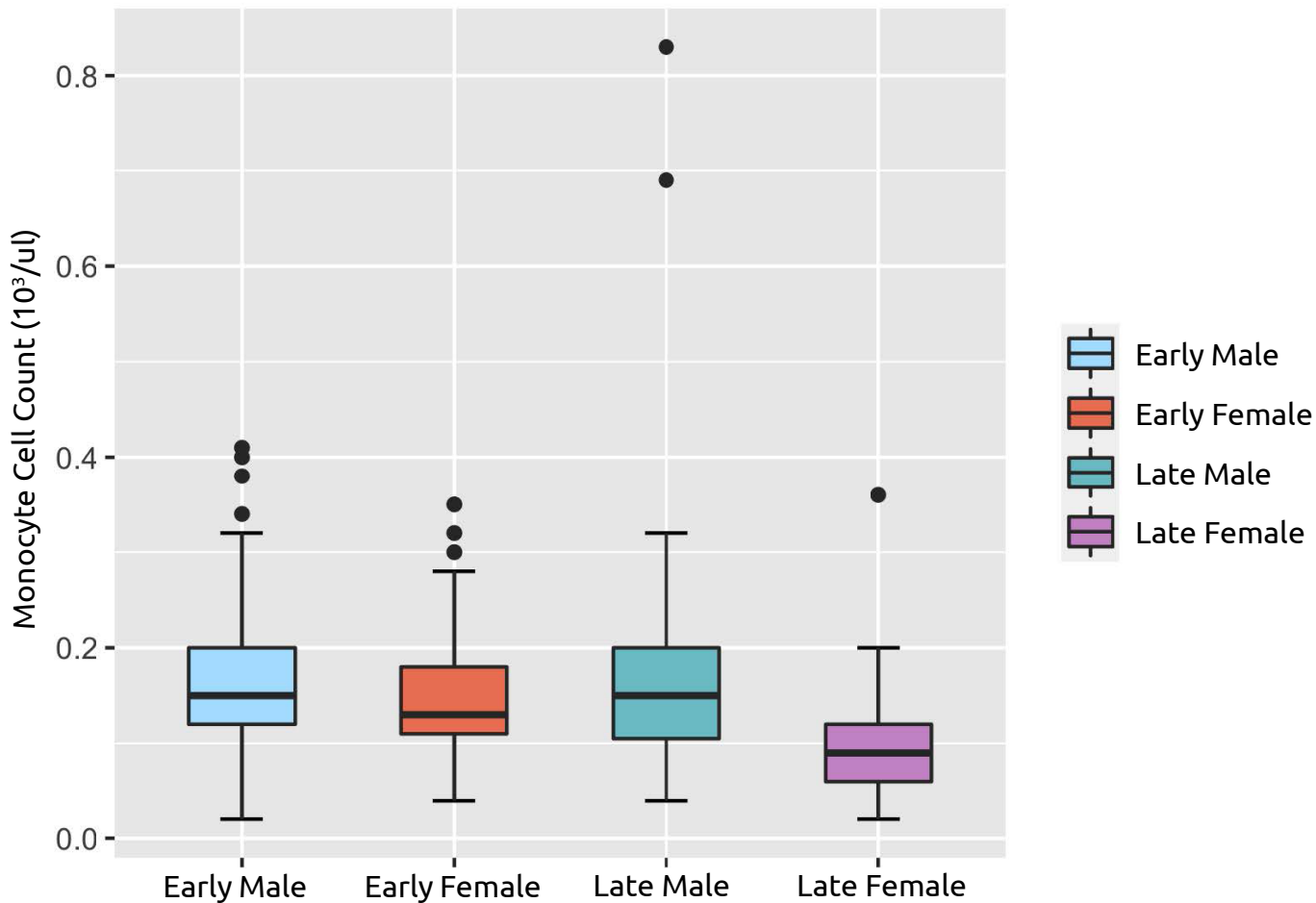
Neutrophil Cell Count ($10^3/\text{ul}$)				
	Early		Late	
	M	F	M	F
Min	0.30	0.34	0.54	0.34
25%	1.25	0.90	1.38	0.96
50% (Median)	1.49	1.05	1.62	1.16
75%	1.98	1.23	2.17	1.35
Max	4.53	2.03	5.54	2.31
Mean	1.69	1.08	1.83	1.16
SD	0.67	0.26	0.88	0.37

Lymphocyte Cell Count



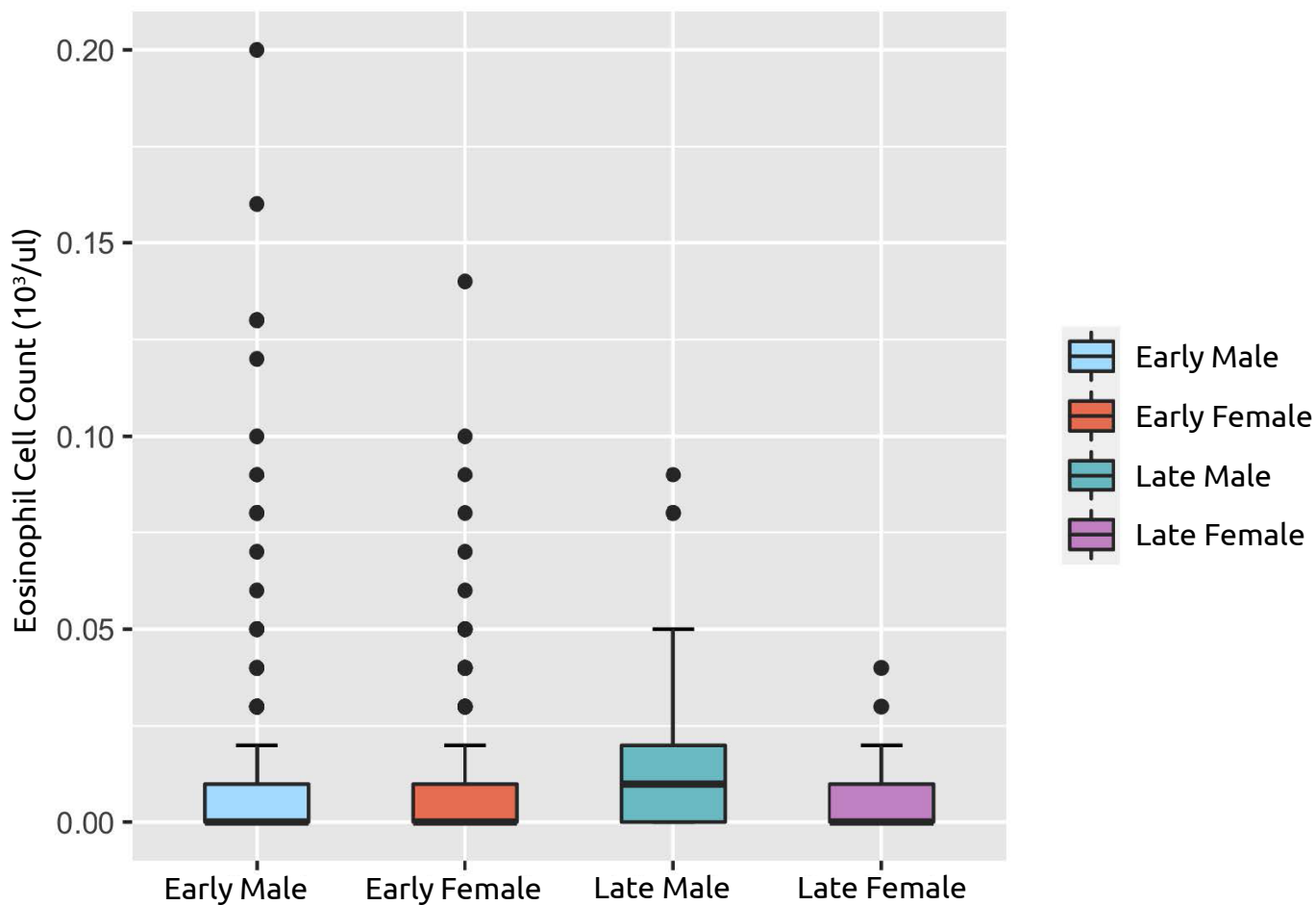
Lymphocyte Cell Count ($10^3/\text{ul}$)				
	Early		Late	
	M	F	M	F
Min	0.83	4.03	1.78	1.22
25%	6.81	5.95	5.50	1.80
50% (Median)	7.73	6.57	6.97	2.38
75%	8.59	7.37	8.05	3.30
Max	12.63	10.86	11.91	5.11
Mean	7.67	6.67	6.71	2.56
SD	1.71	1.16	2.20	1.01

Monocyte Cell Count



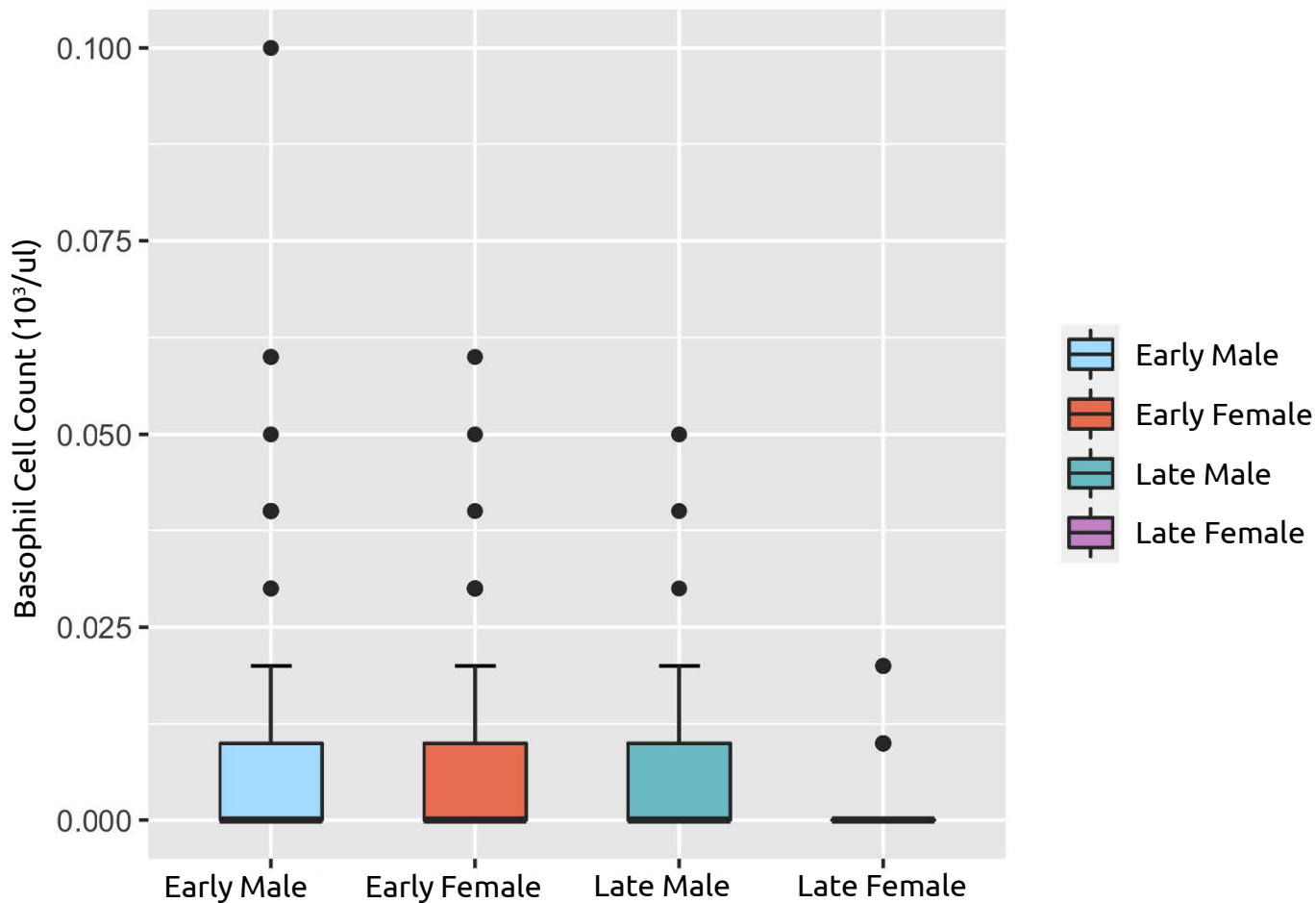
Monocyte Cell Count ($10^3/\text{uL}$)				
	Early		Late	
	M	F	M	F
Min	0.02	0.04	0.04	0.02
25%	0.12	0.11	0.11	0.06
50% (Median)	0.15	0.13	0.15	0.09
75%	0.20	0.18	0.20	0.12
Max	0.41	0.35	0.83	0.36
Mean	0.16	0.14	0.17	0.09
SD	0.07	0.06	0.13	0.05

Eosinophil Cell Count



Eosinophil Cell Count ($10^3/\text{ul}$)				
	Early		Late	
	M	F	M	F
Min	0.00	0.00	0.00	0.00
25%	0.00	0.00	0.00	0.00
50% (Median)	0.00	0.00	0.01	0.00
75%	0.01	0.01	0.02	0.01
Max	0.20	0.14	0.09	0.04
Mean	0.01	0.01	0.01	0.01
SD	0.03	0.02	0.02	0.01

Basophil Cell Count



Basophil Cell Count ($10^3/\text{ul}$)				
	Early		Late	
	M	F	M	F
Min	0.00	0.00	0.00	0.00
25%	0.00	0.00	0.00	0.00
50% (Median)	0.00	0.00	0.00	0.00
75%	0.01	0.01	0.01	0.00
Max	0.10	0.06	0.05	0.02
Mean	0.01	0.00	0.00	0.00
SD	0.01	0.01	0.01	0.01

Hematology Parameters Summary

Reference Intervals of Hematology Parameters For Early Adult Control Mice (C57BL/6NCrl)

	Male			Female		
	2.5%	Median	97.5%	2.5%	Median	97.5%
White Blood Cell Count ($10^3/\text{ul}$)	5.61	9.52	13.40	5.11	7.82	10.65
Red Blood Cell Count ($10^6/\text{ul}$)	9.59	10.53	11.33	9.54	10.36	11.03
Hemoglobin (g/dl)	13.40	15.00	16.00	13.87	14.90	15.94
Hematocrit (%)	44.00	49.00	53.80	44.80	48.80	53.23
Mean Cell Volume (fl)	43.79	46.60	49.20	45.23	47.00	49.33
Mean Corpuscula Hemoglobin (pg)	13.40	14.10	15.10	13.77	14.40	15.20
Mean Cell Hemoglobin Concentration (g/dl)	28.50	30.40	32.60	28.50	30.60	32.50
Platelet Count ($10^3/\text{ul}$)	748.45	915.00	1211.50	639.55	809.00	1002.40
Mean Platelet Volume (fl)	4.10	4.40	4.60	4.10	4.40	4.63
Red Blood Cell Distribution Width (%)	17.10	18.20	20.50	17.20	18.10	19.00
Neutrophil Differential Count (%)	10.98	15.80	32.89	9.82	13.49	18.74
Lymphocyte Differential Count (%)	65.12	82.24	86.87	78.79	84.53	88.36
Monocyte Differential Count (%)	0.72	1.66	2.97	0.72	1.83	3.27
Eosinophil Differential Count (%)	0.00	0.05	0.95	0.00	0.05	0.65
Basophil Differential Count (%)	0.00	0.02	0.45	0.00	0.02	0.35
Neutrophil Cell Count ($10^3/\text{ul}$)	0.81	1.49	3.30	0.62	1.05	1.63
Lymphocyte Cell Count ($10^3/\text{ul}$)	4.24	7.73	11.03	4.38	6.57	9.07
Monocyte Cell Count ($10^3/\text{ul}$)	0.06	0.15	0.31	0.06	0.13	0.27
Eosinophil Cell Count ($10^3/\text{ul}$)	0.00	0.00	0.12	0.00	0.00	0.05
Basophil Cell Count ($10^3/\text{ul}$)	0.00	0.00	0.04	0.00	0.00	0.03

Hematology Parameters Summary

Reference Intervals of Hematology Parameters For Late Adult Control Mice (C57BL/6NCrl)

	Male			Female		
	2.5%	Median	97.5%	2.5%	Median	97.5%
White Blood Cell Count ($10^3/\text{ul}$)	4.33	9.32	14.17	1.98	3.64	6.22
Red Blood Cell Count ($10^6/\text{ul}$)	8.99	9.99	10.99	8.54	9.73	10.72
Hemoglobin (g/dl)	12.32	13.80	15.08	11.62	13.90	15.14
Hematocrit (%)	40.95	45.30	52.52	38.38	44.50	50.68
Mean Cell Volume (fl)	42.03	44.70	50.93	42.36	45.70	49.12
Mean Corpuscular Hemoglobin (pg)	12.41	13.60	14.70	13.10	14.30	15.10
Mean Cell Hemoglobin Concentration (g/dl)	26.10	30.30	33.19	28.36	31.10	33.20
Platelet Count ($10^3/\text{ul}$)	940.00	1261.00	1710.90	719.80	1005.00	1325.80
Mean Platelet Volume (fl)	4.30	4.60	4.90	4.40	4.60	5.34
Red Blood Cell Distribution Width (%)	17.75	18.80	21.34	17.40	18.10	19.14
Neutrophil Differential Count (%)	12.53	17.42	54.56	17.75	29.77	48.63
Lymphocyte Differential Count (%)	43.66	80.58	85.29	48.38	68.52	80.31
Monocyte Differential Count (%)	0.76	1.86	4.08	0.85	2.30	4.98
Eosinophil Differential Count (%)	0.00	0.08	0.81	0.00	0.10	0.69
Basophil Differential Count (%)	0.00	0.03	0.45	0.00	0.00	0.43
Neutrophil Cell Count ($10^3/\text{ul}$)	0.71	1.62	4.26	0.51	1.16	1.87
Lymphocyte Cell Count ($10^3/\text{ul}$)	1.95	6.97	10.64	1.24	2.38	4.70
Monocyte Cell Count ($10^3/\text{ul}$)	0.05	0.15	0.49	0.02	0.09	0.20
Eosinophil Cell Count ($10^3/\text{ul}$)	0.00	0.01	0.08	0.00	0.00	0.02
Basophil Cell Count ($10^3/\text{ul}$)	0.00	0.00	0.03	0.00	0.00	0.02