

Appendix-II: Experiment-II

The effects of different degrees of under-nutrition during the suckling period ~~on~~ on bone size and composition.

R.No.	BoW	BL	BW	FW	DW	FFD	Ash	Ca	P
<u>3 Weeks (G⁺L⁺):</u>									
<u>Mandible:</u>									
1	43	2.10	0.95	81	40	-	21.5	8.0	4.0
2	42	2.06	0.95	88	43	-	24.0	8.2	4.4
3	44	2.10	0.90	85	42	-	20.0	7.2	4.0
4	42	2.05	1.00	80	37	-	20.0	7.6	3.7
5	45	2.01	0.95	80	38	-	20.0	8.0	4.2
6	40	2.00	0.95	75	36	-	20.0	7.6	4.1
$\bar{x}$	42.7	2.05	0.94	81	39.2	-	21.0	7.8	4.1
<u>Femur:</u>									
1		1.76	0.52	160	55	52	19.5	7.2	3.8
2		1.84	0.53	163	54	52	19.5	7.3	3.8
3		1.95	0.55	166	61	58	21.5	8.3	4.3
4		1.80	0.55	161	56	53	20.0	7.2	4.0
5		1.90	0.55	167	61	58	22.0	7.9	4.5
6		1.85	0.52	165	57	53	20.0	7.4	4.0
$\bar{x}$		1.85	0.54	163.7	57.3	54.3	20.4	7.6	4.1
<u>Pelvis:</u>									
1		2.05	0.96	100	39	37	15.5	5.3	3.2
2		2.10	0.96	101	39	37	15.0	5.2	3.0
3		2.10	0.97	100	39	37	16.5	5.9	3.2
4		2.08	0.90	101	39	37	14.5	5.1	2.9
5		2.25	1.00	101	40	38.5	15.0	5.5	3.0
6		2.00	0.94	100	38.5	35.5	15.0	5.1	2.9
$\bar{x}$		2.10	0.96	100.5	39.1	37.0	15.3	5.4	3.0
<u>Tarsus:</u>									
1		1.10	-	75	31	25.5	10.0	3.34	1.8
2		1.05	-	71	33	27.0	10.0	3.44	1.5
3		1.14	-	79	33	28.0	11.5	3.96	2.2
4		1.05	-	70	30	25.0	10.0	3.37	1.9
5		1.10	-	81	32	27.0	10.0	3.38	1.9
6		1.10	-	76	32	27.0	9.5	3.86	1.9
$\bar{x}$		1.09	-	75.3	31.8	26.6	10.2	3.60	1.9

Appendix-II continued

R.No.	BoW	FW	HP	:	R.No.	BoW	FW-L	HA	FW-R	UA
<u>3 Weeks (G⁺L⁺):</u>										
<u>Mandible:</u>										
7	42	75	0.89	13	49	86	0.25	80	0.075	
8	41	77	0.85	14	48	88	0.19	85	0.095	
9	46	84	0.92	15	46	84	0.20	81	0.070	
10	45	76	0.87	16	48	85	0.18	81	0.079	
11	46	78	0.87	17	42	71	0.22	70	0.098	
12	49	65	0.86	18	42	75	0.22	72	0.083	
$\bar{x}$			0.88				0.21		0.08	
<u>Femur:</u>										
7		158	1.50	13		174	0.59	175	0.56	
8		158	1.60	14		158	0.63	170	0.59	
9		148	1.37	15		149	0.74	150	0.56	
10		167	1.42	16		151	0.63	150	0.55	
11		184	1.58	17		146	0.66	140	0.52	
12		168	1.68	18		-	-	175	0.60	
$\bar{x}$			1.53				0.65		0.56	
<u>Pelvis:</u>										
7		96	0.90	13		98	0.42	98	0.40	
8		92	0.90	14		102	0.35	110	0.34	
9		107	1.08	15		100	0.36	110	0.34	
10		100	1.00	16		94	0.35	90	0.25	
11		110	1.08	17		100	0.42	110	0.33	
12		120	1.20	18		100	0.39	96	0.26	
$\bar{x}$			1.03				0.38		0.32	
<u>Tarsus:</u>										
7		80	1.22	13		76	0.37	80	0.29	
8		76	0.92	14		79	0.30	80	0.29	
9		92	1.03	15		79	0.33	74	0.29	
10		76	1.01	16		80	0.32	80	0.29	
11		92	1.06	17		76	0.34	80	0.27	
12		90	1.20	18		-	-	80	0.29	
$\bar{x}$			1.07				0.33		0.29	

Appendix-II continued.

Expt. II

R.No.	BoW	BL	BW	FW	DW	FFD	Ash	Ca	P
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Large Litter:Mandible:

1	21	1.70	0.79	51	24.0	-	12.0	4.50	2.32
2	22	1.80	0.80	52	24.5	-	12.1	4.55	2.30
3	24	1.68	0.77	50	23.5	-	11.5	4.30	2.10
4	24.5	1.78	0.82	52	24.5	-	12.5	4.60	2.35
5	28	1.82	0.85	53	28.6	-	-	-	-
6	27	1.88	0.87	56	27.0	-	-	-	-
$\bar{x}$	24	1.78	0.82	52.3	25.4	-	12.1	4.50	2.3

Femur:

1		1.67	0.54	89	31	28.5	10.0	3.7	1.80
2		1.70	0.54	89	31	28.5	10.0	3.6	1.80
3		1.54	0.47	84	29	27.0	9.5	3.4	1.65
4		1.51	0.45	84	29	27.0	9.5	3.5	1.85
5		1.52	0.45	83	29	26.0	9.0	3.2	1.65
6		1.50	0.44	78	26	23.0	8.5	3.0	1.60
$\bar{x}$		1.57	0.48	84.6	29.2	26.7	9.9	3.4	1.7

Pelvis:

1		1.50	0.68	54	20	18	6.5	2.25	1.18
2		1.60	0.70	49	18.5	17	6.2	2.20	1.15
3		1.70	0.76	46	18	16	6	1.80	1.13
4		1.70	0.78	50	18	16.5	6	2.38	1.20
5		1.90	0.84	50	18	16	6	2.20	1.13
6		1.80	0.80	48	17.5	16	6	2.10	1.13
$\bar{x}$		1.7	0.76	49.5	18.3	16.6	6.1	2.2	1.2

Tarsus:

1		0.89	-	46	18	14.5	5	1.75	0.85
2		0.85	-	45	19	15	5	1.90	0.90
3		0.91	-	53	19.5	15	5	1.80	0.90
4		0.95	-	53	21	16.5	5.5	2.00	1.11
5		0.99	-	55	20.5	16	5	2.00	0.98
6		0.99	-	55	20	16	5	1.80	0.83
$\bar{x}$		0.93	-	51.2	19.7	15.5	5.1	1.9	0.91

Appendix-II continued

R.No.	BoW	FW	HP	R.No.	BoW	FW-L	HA	FW-R	UA
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Large Litter:Mandible:

7	20	60	0.57	12	21	50	0.15	47	0.07
8	20	58	0.67	13	22	52	0.15	51	0.07
9	24	59	0.67	14	20	60	0.14	61	0.08
10	24	53	0.52	15	22	52	0.13	50	0.06
11	23	45	0.55	16	21	60	0.16	-	-
				17	21	-	-	-	-
$\bar{x}$			0.59				0.15		0.07

Femur:

7	105	0.87	12	87	0.53	90	0.46
8	100	0.85	13	87	0.51	90	0.47
9	94	0.78	14	84	0.49	80	0.33
10	130	1.10	15	92	0.53	97	0.46
11	120	1.02	16	82	0.53	80	0.33
			17	90	0.53	92	0.32
$\bar{x}$		0.92			0.52		0.40

Pelvis:

7	68	0.61	12	49	0.26	50	0.14
8	66	0.60	13	51	0.39	57	0.25
9	68	0.57	14	46	0.26	47	0.14
10	70	0.64	15	51	0.29	58	0.24
11	70	0.64	16	49	0.29	56	0.24
			17	48	0.29	50	0.14
$\bar{x}$		0.61			0.30		0.19

Tarsus:

7	60	0.68	12	49	0.24	53	0.25
8	59	0.67	13	49	0.24	55	0.22
9	55	0.60	14	48	0.35	50	0.18
10	72	0.90	15	46	0.20	45	0.16
11	65	0.76	16	55	0.29	60	0.29
			17	-	-	60	0.28
$\bar{x}$		0.72			0.26		0.23

Appendix-II continued.

Expt. II

R.No.	BoW	BL	BW	FW	DW	FFD	Ash	Ca	P
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G⁺L⁻ :Mandible:

1	12.5	1.40	0.75	38.0	17.5	-	8.5	3.10	1.57
2	13.4	1.70	0.80	43.0	20.0	-	9.5	3.40	1.74
3	12.6	1.60	0.77	43.0	20.0	-	10.0	3.90	1.90
4	14.0	1.50	0.78	41.0	19.0	-	9.0	3.50	1.76
5	13.0	1.46	0.75	39.0	18.0	-	9.0	3.40	1.70
6	14.5	1.45	0.75	40.0	18.0	-	8.5	3.20	1.60
7	13.0	-	-	42.0	20.0	-	9.0	3.50	1.51
8	13.0	-	-	43.0	20.0	-	10.0	-	-
9	14.0	-	-	42.0	20.0	-	9.5	-	-

$\bar{x}$	13.3	1.51	0.76	41.2	19.2	-	9.2	3.4	1.68
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Femur:

1		1.27	0.40	41.0	14.0	11.5	4.0	1.44	0.70
2		1.30	0.40	51.0	17.0	15.0	5.5	2.00	0.99
3		1.30	0.36	42.0	14.5	12.0	4.0	1.44	0.71
4		1.30	0.40	43.0	14.5	12.5	4.5	1.78	0.85
5		1.30	0.40	45.0	15.0	13.5	4.0	1.48	0.73
6		1.27	0.40	41.0	14.0	12.5	4.2	1.54	0.71
7		-	-	52.0	18.0	16.0	5.0	-	-
8		-	-	52.0	17.5	15.5	4.0	-	-
9		-	-	50.0	17.0	16.0	5.0	-	-

$\bar{x}$		1.29	0.39	46.3	15.7	13.9	4.5	1.6	0.78
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Appendix-II continued

R.No.	BoW	BL	BW	FW	DW	FFD	Ash	Ca	P
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G⁺L⁻:Pelvis:

1	1.42	0.64	26.0	9.5	7.5	2.9	1.04	0.50
2	1.42	0.64	29.0	10.0	8.5	3.0	1.20	0.55
3	1.30	0.60	25.0	9.0	8.0	3.0	1.00	0.54
4	1.39	0.60	26.0	9.0	8.0	3.0	1.10	0.54
5	1.32	0.55	24.0	9.0	8.0	2.9	1.10	0.54
6	1.45	0.55	27.0	9.0	8.0	3.1	1.10	0.54
7	0.75	0.75	30.0	11.2	10.0	3.5	1.28	0.60
8	-	-	28.0	10.0	8.5	3.0	-	-
9	-	-	30.0	10.5	9.0	3.0	-	-

$\bar{x}$	1.39	0.60	27.2	9.7	8.4	3.1	1.1	0.54
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Tarsus:

1	0.75	-	25.0	9.0	6.5	2.1	0.8	0.36
2	0.83	-	28.0	10.0	7.0	2.5	0.9	0.40
3	0.81	-	27.0	10.0	8.5	2.5	0.9	0.45
4	0.84	-	28.0	10.0	8.0	2.5	0.9	0.40
5	0.86	-	30.0	12.0	10.0	2.5	1.0	0.45
6	0.81	-	26.0	9.6	7.0	2.0	0.8	0.36
7	-	-	39.0	14.0	10.5	3.0	-	-
8	-	-	34.0	12.0	8.0	2.5	-	-
9	-	-	39.0	14.0	10.0	3.0	-	-

$\bar{x}$	0.82	-	30.7	11.2	8.3	2.6	0.88	0.40
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Appendix-II continued

R.No.	BoW	FW	HP	:	R.No.	BoW	FW-L	HA	FW-R	UA
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G⁺L⁻:Mandible:

10	14.0	40	0.40	16	12.0	-	-	-	-
11	14.0	43	0.44	17	11.5	43	0.13	40	0.05
12	15.0	45	0.46	18	13.0	43	0.10	40	0.05
13	16.0	48	0.48	19	12.0	50	0.12	40	0.05
14	15.0	46	0.48	20	12.0	40	0.11	40	0.05
15	14.5	40	0.41	21	14.0	30	0.09	30	0.04
$\bar{x}$			0.45				0.11		0.048

Femur:

10		55	0.48	16		43	0.24	-	-
11		68	0.54	17		43	0.28	41	0.27
12		63	0.52	18		42	0.30	41	0.27
13		56	0.46	19		41	0.24	40	0.22
14		60	0.51	20		43	0.23	42	0.21
15		57	0.44	21		41	0.25	42	0.24
$\bar{x}$			0.49				0.26		0.24

Pelvis:

10		30	0.27	16		20	0.13	-	-
11		31	0.25	17		20	0.17	20	0.09
12		33	0.26	18		23	0.13	23	0.11
13		35	0.33	19		20	0.11	22	0.12
14		33	0.29	20		20	0.13	23	0.12
15		33	0.29	21		25	0.15	25	0.14
$\bar{x}$			0.28				0.14		0.12

Tarsus:

10		30	0.33	16		24	0.20	-	-
11		36	0.43	17		23	0.17	20	0.12
12		35	0.39	18		23	0.20	24	0.16
13		40	0.44	19		20	0.17	20	0.12
14		42	0.46	20		25	0.25	24	0.15
15		40	0.49	21		26	0.17	26	0.17
$\bar{x}$			0.42				0.19		0.14