

List of Tables

<u>Table No.</u>		<u>Page No.</u>
1	The lipids of bovine cortical bone ...	5
2	Organic composition of washed epiphyseal cartilage and bone ...	23
3	Changes in chemical composition with age in the whole femur in the rat ...	27
4a	Changes in the hexosamine content in the bone tissue of man during ontogenetic development. ...	28
4b	Changes in the hexosamine content during regeneration ...	28
5	Preliminary studies on the skeletal status of children and adolescents in different segments of the Indian population. ...	47
6	Response of different bones to nutritional stress. ...	54
7	Composition of the stock diet. ...	65
8	Composition of low and high protein diet	66
9	Composition of the vitamin mixture ...	67
10	Composition of the salt mixture ...	69
11	Reagents used and the methods of preparation	71
12	Chemical composition of femur ...	85
13	Per cent increment per week in the body weight, bone weight and length during the development in the rat. ...	87
14a	Bone size and morphology. ...	90
14b	Per cent of value at 26 weeks. ...	93
14c	Per cent increment per week. ...	94
15a	The pattern of changes in the composition of selected bones during growth and maturation in the rat. ...	96

<u>Table No.</u>		<u>Page No.</u>
15b	Per cent of value at 26 weeks. ...	100
15c	Per cent increment per week ...	102
16a	The pattern of changes in the composition of selected bones during growth and maturation in the rat. ...	105
16b	Ratios of interrelations among chemical components in bone during development ...	108
17	Comparison of femur collagen in the present study with femur-N of previous study. ...	111
17a	The pattern of changes in the percentage composition of selected bones during growth and maturation in the rat. ... - g per 100 g of fresh bone	113
17b	g per 100 g of dry bone ...	116
17c	g per 100 g of fat-free dry bone ...	117
18a	The effects of different degrees of under-nutrition during the suckling period on bone size and morphology. ...	128
18b	Statistical significance of differences between groups in table 18a. ...	131
18c	Per cent increment over values at birth.	132
19a	The effects of different degrees of under-nutrition during the suckling period on the chemical composition of bones. ...	134
19b	Statistical significance of differences between groups in Table 19a. ...	137
19c	Per cent increment over values at birth.	139
20a	The effects of different degrees of under-nutrition during the suckling period on the chemical composition of bones. ...	143
20b	Statistical significance of differences between groups in Table 20a. ...	148

<u>Table No.</u>		<u>Page No.</u>
21a	The effects of different degrees of under-nutrition during the suckling period on the percentage composition of bones. ...	149
21b	Statistical significance of differences between groups in Table 21a. ...	152
22a	The effects of different degrees of under-nutrition during the suckling period on the percentage composition of bones. ...	155
22b	Statistical significance of differences between groups in Table 22a. ...	156
23	The effects of postweaning deficiencies of food energy and protein on the chemical composition of selected bones. ...	166
24a	The effects of postweaning deficiencies of food energy and protein on bone size and morphology. ...	168
24b	Statistical significance of differences between groups in Table 24a. ...	171
24c	Per cent increment over values for weanling rats. ...	172
25a	The effects of postweaning deficiency of food energy and protein on the chemical composition of selected bones. ...	175
25b	Statistical significance of differences between groups in Table 25a. ...	178
25c	Per cent increment over values for weanling rats. ...	180
26a	The effects of postweaning deficiency of food energy and protein on the chemical composition of selected bones. ...	182
26b	Statistical significance of differences between groups in Table 26a. ...	186
27a	The effects of postweaning deficiencies of food energy and protein on the percentage composition of bones. ...	188

<u>Table No.</u>		<u>Page No.</u>
27b	Statistical significance of differences between groups in Table 27a. ...	191
28a	The effects of postweaning deficiencies of food energy and protein on the percentage composition of bones. ...	192
28b	Statistical significance of differences between groups in Table 28a. ...	194
29	Comparative deficits for the preweaning and postweaning undernutrition. ...	201
30	Effects of vitamin A deficiency on different tissues. ...	204
31a	The effects of maternal vitamin A deficiency during gestation and lactation on bone size and morphology. ...	207
31b	Statistical significance of differences between groups in Table 31a. ...	210
32a	The effects of maternal vitamin A deficiency during gestation and lactation on the chemical composition of the bones in the progeny. ...	213
32b	Statistical significance of differences between the groups in Table 32a. ...	216
33a	The effects of maternal vitamin A deficiency during gestation and lactation on the chemical composition of bones in the progeny. ...	218
33b	Statistical significance of differences between the groups in Table 33a. ...	223
34a	The effects of maternal vitamin A deficiency during gestation and lactation on percentage composition of the bones in the progeny. ...	227
34b	Statistical significance of differences between the groups in Table 34a. ...	230
35a	The effects of maternal vitamin A deficiency during gestation and lactation on the percentage composition of bones. ...	232

<u>Table No.</u>		<u>Page No.</u>
35b	Statistical significance of differences between the groups in Table 35a. ...	234
36a	The effects of vitamin A deficiency during the postweaning period on bone size and morphology. ...	243
36b	Statistical significance of differences between the groups in Table 36a. ...	246
36c	Per cent increment over values for weanling rats. ...	247
37a	The effect of vitamin A deficiency during the postweaning period on the chemical composition of selected g bones in rats.	250
37b	Statistical significance of differences between the groups in Table 37a. ...	253
37c	Per cent increment over values for weanling rats. ...	255
38a	The effect of vitamin A deficiency during the postweaning period on the chemical composition of bones in rats. ...	257
38b	Statistical significance of differences between the groups in Table 38a. ...	261
39a	The effect of vitamin A deficiency during the postweaning period on the percentage composition of bones in rats. ...	264
39b	Statistical significance of differences between the groups in Table 39a. ...	267
40a	The effect of vitamin A deficiency during the postweaning period on the percentage composition on the basis of dry weight and fat-free dry weight. ...	268
40b	Statistical significance of differences between the groups in Table 40a. ...	270
41a	Comparative deficits for the preweaning and postweaning vitamin A deficiency. ...	275
42a	Deficits in body weight and bone parameters in the different experiments. ...	283