

List of Tables

<u>Table No.</u>		<u>Page No.</u>
1	Biochemical differences in bone cells.	10
2	Changes in chemical composition with age in the whole femur in the rat.	12
3	Concentrations of cations in intracellular fluid and extracellular fluid.	22
4	Sodium, potassium and calcium balance of adult male.	25
5	Absorption of dietary calcium by rats of various ages.	26
6	Different foods as sources of calcium.	28
7	Oxalic acid, phytin ^{and} calcium content of ragi, sesame seeds and leafy vegetables.	29
8	Utilization of calcium during pregnancy.	32
9	Incidence and extent of skeletal retardation in different age groups.	37
10	Nutrients provided by the diet in rural Baroda.	38
11	Details of the experiments carried out.	41
12	Composition of stock diet.	43
13	Composition of Sherman's diet (modified).	43
14	Composition of the diets used for variations in dietary protein content.	44
15	Composition of the diets used in experiment VI.	45
16	Composition of different diets used in experiment VII.	46
17	Composition of vitamin mixture.	47

<u>Table No.</u>		<u>Page No.</u>
18	Composition of salt mixture	48
19	Effects of neonatal undernutrition on the composition of femur.	57
19a	Effects of neonatal undernutrition on the composition of femur.	58
20	Effects of postweaning undernutrition on food intake and weight gain in rats.	62
21	Effects of postweaning undernutrition on the composition of femur.	63
21a	Effects of postweaning undernutrition on the composition of femur.	64
22	Composition of pig humerus.	67
23	Effects of protein deficiency on food intake and weight gain in rats.	70
24	Effects of protein deficiency on the composition of femur.	71
24a	Effects of protein deficiency on the composition of femur.	73
25	Comparative effects of protein deficiency and undernutrition on food intake and weight gain in rats.	77
26	Comparative effects of protein deficiency and undernutrition on the composition of femur.	79
26a	Comparative effects of protein deficiency and undernutrition on the composition of femur.	80
27	Food intake and weight gain in rats fed different levels of protein.	83
28	Composition of femur in rats fed different levels of protein.	85

<u>Table No.</u>		<u>Page No.</u>
28a	Composition of femur in rats fed different levels of protein.	86
29	Effects of lysine supplementation to kodri on food intake and weight gain in rats.	89
30	Effects of lysine supplementation to kodri on composition of femur.	91
30a	Effects of lysine supplementation to kodri on composition of femur.	93
31	Nutrients provided by selected food grains, bengal gram and fenugreek leaves.	96
32	Nutritive value of the diet.	98
33	Comparative nutritive value to rats of supplemented and unsupplemented cereal or millet diets and Modern bread.	100
34	Weight gain in relation to dietary protein content.	101
35	Composition of femur in rats fed supplemented and unsupplemented cereal or millet diets and Modern bread.	103
35a	Composition of femur in rats fed supplemented and unsupplemented cereal or millet diets and Modern bread.	105
35b	Statistical significance of the data of Table 35.	106
36	Weight gain and calcium content of femur in rats fed refined wheat flour or whole wheat flour with or without bran.	109
37	Composition of femur at different ages.	114
38	The size and composition of the femur at different ages.	115

<u>Table No.</u>		<u>Page No.</u>
39	Comparative effects of protein deficiency at different ages on the composition of femur.	116
40	Skeletal development of children suffering from kwashiorkor and marasmus.	119