Serum calcium and phosphorus before and after thyroid operation

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- 69 -SUMMARYForty five patients with thyroid enlart.ement (simpleand toxic goitre) were subjected to partial thyroidectomy, subtotal thyroidectomy and resection enucleation. During operation the pathology was oon!irmed andthe parathyroid glands were identified for their siteand number in patients SUbjected to massive resection of thyroid tissue as in subtotal and partial thyroidectomybut not in resection enucleation. Gross and mierGsoopiealexamination of the removed specimen of thethyroid tissue wae performed to exclude other thyroiddiseases.All patients were subjected to routine preoperativeclinioal examination and investigations (full blood pictu.re, bltlod urea, blood and urine creatinine, serum andurine calcium, serum and urine phosphorus and stool andurine analysis). In this work, serum calcium and phosphorus, urinarycalcium and phosphorus were determined one day preoperative and 3 daYs, 1 week, 3 months and 6 months postoperatively.- 70 -from this study it could be concluded that hypercaloaemiawas evident in thyrotoxicosis, while there wastransient hypocaloaemia followirJi, thyroideotomy, which returned nearly to the normal level within six months. This was suggested to be due to removal of the additional stress 0' the oalcitonin secreting system due tl)haperthyroid excess bone resorption and shrink of theoalcium pl)ol to the normal size upon treatment.