Contents

1. **Applied Embryology and Surgical Anatomy of the Endocrine Glands** 1
   Chakravarthy Marx Sadacharan
2. **Endocrine System Physiology** 17
   Sabaretnam M, Poongkodi K, Uma Devi, Prateek Mehrotra
3. **Thyroid Function Tests and their Interpretation** 33
   Sushil Gupta, Rekha Singh
4. **History Taking and Clinical Examination of Goiter** 37
   Anand Kumar Mishra, Kul Ranjan Singh, Loreno E Enny, Surabhi Garg
5. **Solitary Thyroid Nodule** 44
   Ranil Fernando
6. **Euthyroid Multinodular Goiter** 50
   Muthukumar S, Mohamed Salmon M, Ravikumar
7. **Retrosternal Goiter** 55
   Han Boon Oh, Rajeev Parameswaran
8. **Thyroiditis** 63
   Pradeep PV
9. **Toxic Goiter-Toxic Multinodular Goiter and Toxic Adenoma** 66
   Ravikumar, Muthukumar S
10. **Graves' Disease** 70
    Supriya Sen, Deepak Abraham, Maruthu Pandian, Kamaludeen, S Babu
11. **Thyroglossal Duct Cyst and Fistula** 76
    Mohanty Biswa N, Kailash C Mohapatra, Mohanty Arun K
12. **Differentiated Thyroid Cancer** 81
    Roma Pradhan, Amit Agarwal
13. **Follicular Neoplasm of the Thyroid Gland** 113
    Natarajan Dorairajan, Poongkodi K
14. **Hürthle Cell Neoplasm and Carcinoma** 122
    R Dayananda Babu, Deepak Paul
15. **Medullary Thyroid Carcinoma** 127
    Radan Dzodic, Nada Santrac
16. **Poorly Differentiated Thyroid Carcinoma** 148
    Manohar H Martis, Elanthenral Sigamani, Deepak Abraham
17. **Anaplastic Thyroid Carcinoma** 154
    Dhalapathy Sadacharan, Sabaretnam M, Siddhartha Chakravarthy N
18. **Thyroidectomy** 159
    Anand Kumar Mishra, Kushagra Gaurav

19. Surgery in Locally Advanced Thyroid Cancer 169
Gouri Pantvaidya, Karthik Rao, Anil D'Cruz

20. Newer Technology in Thyroid Surgery 178
Roma Pradhan, Amit Agarwal

21. Neck Dissection in Differentiated Thyroid Cancer 189
Neeti Kapre, Madan Kapre

22. Principles of Neck Dissection in Medullary Thyroid Cancer 194
Aarathi Vijayashanker, Kushagra Gaurav, Akshay Anand, Abhinav Arun Sonkar

23. Complications of Thyroidectomy 201
Gyan Chand, Sudhi Agarwal

24. Voice Changes Following Thyroidectomy 209
Alok Thakar, R Chandra Shekar Reddy, Harsha Yadav CT

25. Genetic Landscape and Molecular Mechanisms in Thyroid Cancer 216
Nelson George, Amit Agarwal

26. Primary Hyperparathyroidism 225
Julie A Miller, Edwina C Moore

27. Parathyroid Surgery 238
Roma Pradhan

28. Secondary and Tertiary Hyperparathyroidism: An Endocrine and Renal Perspective 247
Manju Chandran, Jiunn Wong

29. Parathyroid Carcinoma 257
Sai Krishna Vittal, Sai Vishnupriya Vittal, V Sucharitha, Sivapatham Vittal

30. Adrenal Incidentaloma 262
Jnaneshwari Jayaram, Chitresh Kumar

31. Primary Hyperaldosteronism 274
Farheen Khan, Dileep Ramesh Hoysal, Sushohbhan Pradhan, Yuvraj Devgan, Sarah Idrees, Arjun Raja A, Amit Agarwal

32. Adrenal Surgery and Cushing's Syndrome 285
MJ Paul, Aravindan Nair

33. Pheochromocytoma 292
Deependra Narayan Singh, Amit Agarwal

34. Adrenocortical Carcinoma 305
Sendhil Rajan, Dhalapathy Sadacharan, Aromal Chekavar S

35. Techniques of Adrenalectomy and Approaches 313
Siddhartha Chakravarthy N, Anukriti Sood

36. Pediatric Endocrine Tumors 321
Himagirish K Rao, Sapana Bothra Jain

37. Insulinoma 351
Anish JC, MJ Paul

38. Familial Endocrine Syndromes 364
Mallika Dhanda, Suneel Mattoo, Amit Agarwal

39. Laboratory Evaluation of Endocrine Tumors 378
Pooja Ramakant, Manish Gutch, Chanchal Rana, Shreyamsa M, Sasi Mouli

40. Endocrine Radiology 405
Archana Gupta, Pankaj Sharma

41. Pathology of Diseases of Endocrine Organs 421
Suvradeep Mitra, Niraj Kumari, Munita Menon Bal, Santosh Menon, Narendra Krishnani

42. Role of Nuclear Medicine in Endocrine Surgery 449
CS Bal, Saurabh Arora

43. Anesthesia for Endocrine Surgery 470
Shilpi Misra, Deepak Malviya

44. Role of Radiotherapy in Endocrine Tumors 485
Punita Lal, Shagun Misra, Sidharth Pant, Shaleen Kumar

45. Thymectomy for Myasthenia Gravis 494
Surendra Kumar Agarwal

Index 503