

Contents

<i>Foreword</i> by Dr Vanitha R Muralikumar	<i>vii</i>
<i>Preface</i>	<i>ix</i>

Part A: Research Methodology

1. What is research?	3
2. Historical background of research	12
3. Evidences of researches in Ayurvedic classics	34
4. Research in Ayurveda: Scope, need, importance, utility	39
5. Types of research	48
6. Research process	60
7. Role of the <i>Pramanas</i> as research tools	73
8. Ethics in research: Concept and importance	92
9. Concept of evidence based medicine	101
10. Scientific writing	110
11. Importance of IT, data mining and research database	119

Part B: Medical Statistics

12. Medical statistics: Definition, scope and importance	137
13. Common statistical terms and notations	144
14. Data collection and presentation of data	153
15. Measures of location/central tendency	166
16. Measures of variability/dispersion	173
17. Probability and tests of significance	181
18. Parametric and non-parametric tests: Testing of hypothesis	187
19. Commonly used statistical software	199
Annexure: Syllabus of research methodology and medical statistics	207
Index	211