Medical Statistics

- Definition, Scope and Importance of Medical Statistics.
- population
- Sample
- Data 5.
- _{Variable}
- 7. Normal distribution
- Collection and Presentation of Data
- 9. Tabular
- 10. Graphical
- 11. Diagrammatical
- 12. Measures of location
- 13. Average
- 14. Percentile

Measures of Central Tendency

- 1. Arithmetic Mean
- 2. Median
- 3. Mode
- 4. Variability and its measurement
- Range

etc.

- 6. Standard deviation –(z Score)
- 7. Standard error
- Introduction of Probability and test of significance
- Parametric and Non Parametric tests
- LO. Introduction to commonly used statistical software such as Epi Info, Gaphpad, SPSS

Research Methodology and Medical Statistics

- Research in Ayurved and evidence of Researches in Ayurvedic classics.
- Research in Ayurveda Kriya Sharir

Scope

Need

Importance

Utility

- 3. Types of Research
 - a. Applied
- b. Qualitative, Quantitative and Others
- 4. Research Process (each steps in brief)
- 5. Selection of topic
- 6. Review of literature
- 7. Hypothesis
- 8. Aims and Objective
- 9. Matarials and Methods
- 10. Observations and Results
- 11. Method of Communication Research and Research tools
- 12. The concepts and Importance of ethics in Research
- 13. Concept of Evidence Based Scientific writing
- 14. Importance of IT in data Mining and important Research data portals concerned with Kriya sharir and contemporary Medical Science portal (Pubmed, Ayush Research, Bioinformatics, Center Research Management Informatics system, different Software recognized by Ayush System, etc).

Research ethics and Scientific Writing (Paper/Project) and communication

- Bio ethical considerations in Research, ethical principles, Guidelines to plan the experimental, clinical, fundamental and Survey work. ;cientific communication
 - Original Research
 - Meta analyses
 - Reviews
 - Systematic Reviews
 - Case Report, Case series, Clinical trials in vitro and In vivo studies etc.
 - Research paper writing
 - Reference styles, management of Reference styles, software use of reference such as - Mendeley.
 - Copywriting rights and Steps to avoid Plagiarism

Essentials of Computer Application, Literature and Data Management

- General Practical knowledge of Computer
- MS Word, MS Power Point, MS Excel and other basic computer application which are usefull in Thesis and Scientific paper writing and presenting the paper.
- Method of Literature and data management
- Google scholar, Pubmed, Scopus, Dhara, Ayush Research portal, Science direct web of Science and other helpful in Research.

Fundamental Concept of Ayurvedic kriya Sharir

ntroduction of Basic principles of kriya sharir and their significance.

- panchmahabuts-various theories regarding the creation
 - posha-General description of tridosha, Inter relationship between Ritu, Dosha, Rasa,
- Biological rhythms of Tridosha on the basis of day, night, age, season and food intake Etiological factor responsible for dosha Vridhi, Dosha Kshaya and their manifestation concept of Kriya kala and prakriti, Sarta Physiology of Respiratory system Digestive system, Urinary system, Reproductive system, Endocrinology System, Nervous system.
- Development of toots the assess of Physiologyical parameter in Ayurvedic Kriya sharir-
- Satva, Sara, Prakriti, Agni, Bala, Oja, Kostha, Praman, Samshamana
- Educational methods and plan.
- Systemic Physiology
- Standardization of methods and techniques relevant to the research topic.
- Preparation and Presentation of Research plan.
- Recent advance in research related to Kriya Sharir.
 - Nadi Pariksha
 - Ayurvgenomics
 - Systems biology
 - Pranayam and yogic physiology
 - Excercise physiology
 - > Techniques of tools, Models and working models.
 - Role of stem cell biology
 - > Therapeutic Intervention of Kriya Sharir and their efficts.
 - > Role of Chronobiology in understanding the dosha biorhythms.
 - > Applied Physiology in understanding the Pathogenesis and treatment aspects in different Systemic Disorders. Hematological, Seriological,
 - Biochemistry, Histopathological, Biophysical Examination to understand and interpretate and Contemporary Classical Ayurveda Physiology.

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