

17. SANGYAHARAN

Paper 1 Sangyahan siddhant avum vangmaya: Literary, Research And Development

- History of Sangyahan and its development in Ayurveda.
- Importance of anesthesia in Ayurveda.
- Contribution of AAIM and other pioneers in the development of Sangyahan.
- Applied aspects of Ayurveda with respect to sangyahan Vrihatrayee and Laghutryee.
- Instruments for anesthesia in ancient era and their development.
- Rakta, its importance, Raktadhana and Raktstambhana.
- Knowledge of disorders like Unmada, Apasmara, Mada, Murcha, Sanyasa and Stabdhatata etc.
- Madataya, Stages of Madataya and its management.
- Pharmacology of Medhya, Vednasthapak, Madkari, Sangyasthapak, Nidrajanan, Akshepjanan and shamana, Svedjanan, Hridyae, Hridyotejak, Raktbharshamak, Shoolprashaman, Vaman and hrillashar (Antiemetic) dravya as mentioned in Ayurvedic samhita & their application in Sangyahan.
- Aroma therapy as complementary and alternative therapy in pain management and Palliative care.

Paper 2 Sangyahan Bshhaja Vigyan (Pharmacology related to Anesthesia)

Pharmacology of:

- Drugs acting on Autonomic nervous system:
 - a .Cholinergic system and drugs- Agonist and antagonist
 - b .Adrenergic system and drugs- Agonist and antagonist
- Autocoids and related drugs:
 - a. Histamine and Antihistaminic
 - b. 5HT and antagonist
 - c. NSAID'S
 - d. Prostaglandins and leukotrienes
- Drugs acting on Respiratory system
- Drugs acting on Somatic nervous system
 - a. Skeletal muscle relaxants – Depolarizer and Non-Depolarizer.
 - b. Local anesthetics
- 5. Drugs acting on central nervous system
 - a. General Anesthetics- Fixed and Volatile anesthetic agents.
 - b. Sedative and hypnotics
 - c. Anti epileptics
 - d. Anti psychotic and anti-manics
 - e. Opioids Analgesics and antagonists
- 6. Drugs acting on cardiovascular system
 - a. Cardiac glycosides
 - b. Anti arrhythmic drugs
 - c. Anti anginal and other anti ischemic drugs
 - d. Anti hypertensive drugs
- 7. Drugs acting on Kidneys
 - a. Diuretics
 - b. Anti diuretics
- 8. Coagulants and anti coagulants

Paper 3 Vishista Sangyahan – Applied Anesthesia

- Airway management- Intubation, failed intubation drill, LMA, Bag and mask ventilation.

- Anesthesia For: General surgery, Obstetric and Gynecology ,E.N.T. and Ophthalmic, Orthopedic ,Dental ,Pediatric , Urology , plastic and Outpatient / Day care surgery.
- Anesthesia for patients with: Diabetes mellitus, Thyroid diseases, inherited metabolic diseases, Obesity, Respiratory diseases, Cardiac diseases, Renal diseases, Geriatric problems and neuromuscular diseases.
- Regional anesthesia:
- Sub-arachnoid and epidural anesthesia, analgesia.
- Plexus and nerve blocks for upper and lower limb
- Regional anesthesia for thorax and abdomen
- Surface anesthesia, infiltration and field blocks
- Complications of Regional and general anesthesia, morbidity, mortality and medico-legal aspects.
- Anesthesia for Endoscopic, laparoscopic Surgery and Laser Surgery
- Anesthesia for Trauma and mass casualty
- Emergency anesthesia.

Paper 4 Monitoring Advances and Research in Sangyahan

- Monitoring in anesthesia:
 - Cardiovascular, Respiratory, Renal function, Neurologic and neuromuscular monitoring.
 - Peri- operative Thermo- regulation and monitoring
 - Peri- operative awareness and monitoring depth of anesthesia with BIS.
 - Peri- operative acid-base balance
 - Pt's positioning in anesthesia, its hazards and management
 - Peri- operative Fluid management and Blood transfusion.
 - Risks and hazards of anesthesia
- Anesthesia equipments –
 - Medical gas systems
 - Breathing systems
 - Ventilators
 - Anesthesia machine
- Post operative management-
 - Post anesthesia care
 - Post operative nausea and vomiting
 - Post operative Intra-Venous fluid therapy
 - Acute post operative pain
- Misalleneous-
 - HDU,ICU, CCPR- BLS & ACLS.
 - Parental nutrition.
 - Environmental factor and electrical safety
- Management of Acute / Chronic Pain:
 - Assessment of pain
 - Peri-operative pain,
 - Chronic pain syndrome-detection and prevention,
 - WHO regime for Cancer pain,
 - TENS, Behavioral therapy
- Anesthesia in remote locations
- Clinical care in extreme environments (At high and low pressure and space).
- Relevance of Sammohana (Hypnosis), Acupressure and Acupuncture in Sangyahan.
- Recent advances in research in Sangyahrana, Pain Management and Palliative Care. Scope and Application of principles of Ayurveda in Sangyahrana Research.

METHODS OF TRAINING AND TEACHING FOR M.D. (Ayu) ANAESTHESIOLOGY -

Case Presentation	Once a Week
Seminar / Symposia	Once a Week
Pre Anesthesia Care / Clinic	Thrice a Week
Critical Care unit / Recovery Room	Once a Week
Classroom Lectures	Twice a Week
Morbidity / Mortality	Once a Week
Audit	Once a month
Journal Club	Once a month
Record Keeping	Once a month
Emergency Drills / Protocols	Once a Week
Interesting Cases	Once a Month

Practical Examination

1. Case Record(25)	-50 Marks
2. Presentation of different types of Anesthesia	-50 Marks
3. Thesis Presentation	-50 Marks
4. Viva-Voce	-50 Marks
Minimum pass marks	50%

Result:- Pass/Fail

Staff required

Teaching- Professor-1
Reader/Asso. Prof-1
Lecturer/Assi Prof-2
Sen.Resident-2

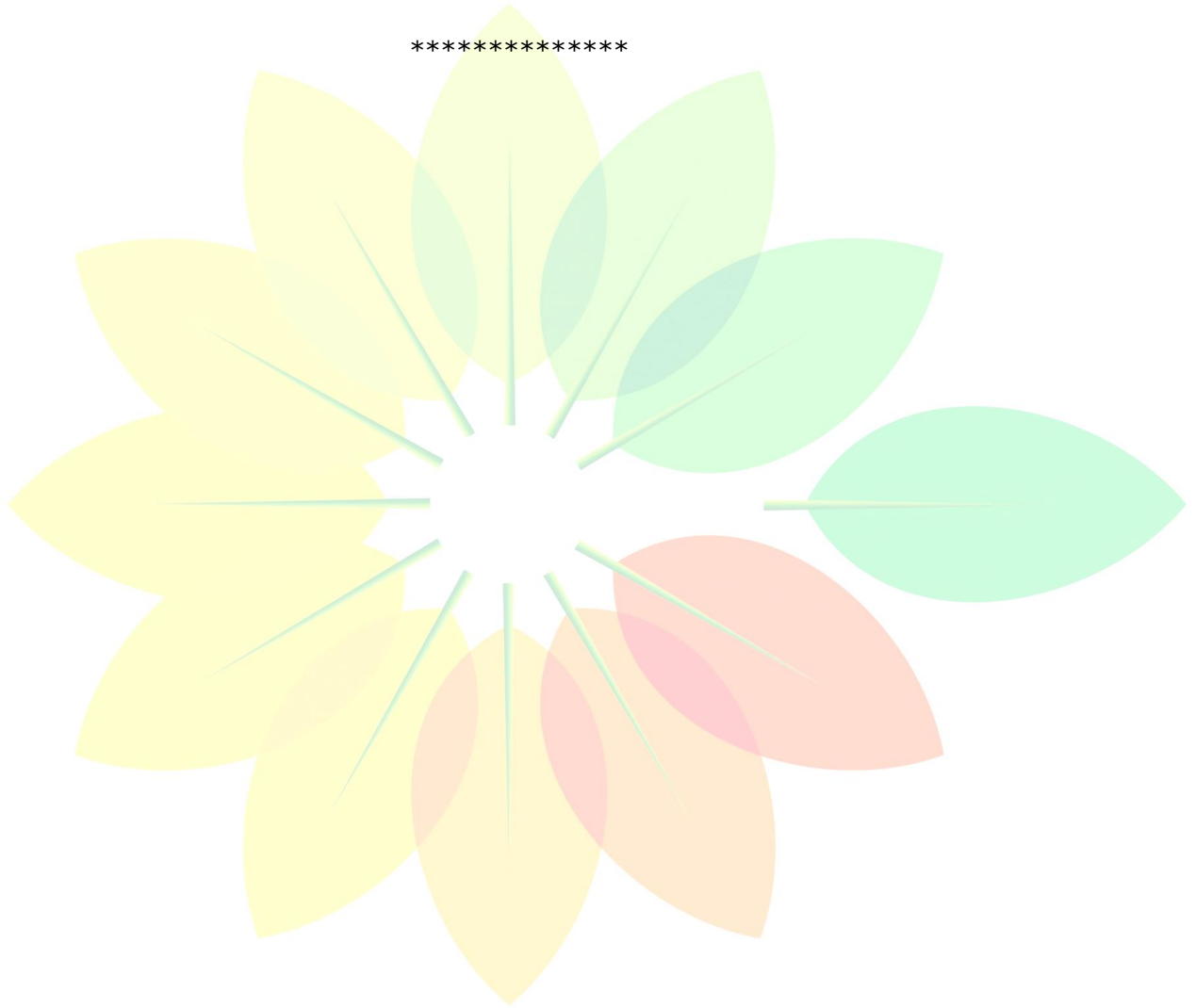
Non Teaching staff
Anesthesia Technician- 1
Anesthesia Attendent-2
Ward boy-2
Sweeper-2

Reference Books

a. Sushruta Samhita	-
b. Charka samhita	-
c. Ashtang Hridaya	-
d. Practice of Anesthesia	- Churchill Davidson
e. Miller's Anesthesia	- Ronald D Miller
f. Synopsis of Anesthesia	- Alfred Lee
g. Sangyahan Prakash	- Dr. D. N. Pande
h. Agni karma-Technological Innovation	- Dr. P.D. Gupta
i. Practice of Anesthesia and Resuscitation	- Dr. P.K. Gupta et al
j. Essentials of Anesthesiology	- Prof. A.K. Paul
k. Clinical Anesthesia	- Prof. A.K. Paul
l. Anu Shastra karma	- Dr. D.N. Pande
m. Textbook of Anesthesia	- Aitkenhead

- n. Anesthesia and co-existing disease
- o. Physiology and Pharmacology
- p. Understanding Anesthesia Equipments
- q. Clinical anesthesiology

- Stoelting's
- Stoelting's
- Dorsch & Dorsch's
- G. Edward Morgan



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