



Āyurvedic Doctor: Educational Outline for Competency

Section 1. Foundations of Ayurveda

Category 1.1. In-Depth Knowledge of the definition of Āyurveda, History of Āyurveda, Aṣṭāṅga Āyurveda (Eight branches of Ayurveda), Bṛhat trayī (Three primary texts of Ayurveda), Laghu trayī (Three secondary texts of Ayurveda) including:

- Origin myths of Āyurveda according to Suśurutha, Caraka, Kasyapa and the Puranas
- Origins of Āyurveda in the pre-Vedic era
- History of herbalism and healing in the Vedic period
- Vedas in brief and Āyurveda being Upaveda of Atharvaveda
- Ashtanga Āyurveda in brief
- Śad-Darshana in brief
- History and background of Brihad Trayi
- Important commentators: Jejjat, Chakrapannidutta, Dalhana, Gangadhar, Yogendranath Sen
- History of Laghu Trayi
- History of the Nighantu
- Current context of Āyurveda in India and America

Category 1.2. In-Depth Knowledge of Sāṃkhya Philosophy including but not limited to:

- Prakṛti (Primordial nature),
- Puruṣa (Eternal cause)
- Mahat (Causative Intelligence)
- Ahaṃkāra (Ego Principle)
- Manas (Mind)
- Pañca tanmātras (Five subtle elements)
- Pañca jñānendriyas (Five sensory organs of cognition)
- Pañca karmendriyas (Five organs of action)
- Pañca mahābhūtas (Five gross elements)

- Relationship of jñānendriyas (Five sense organs), karmendriyas (Five organs of action), tanmātras (Five subtle elements) and mahābhūtas (Five gross elements)

Section 2. Concepts of Ayurveda

Category 2.1 Guṇas (Twenty Qualities)

2.1.1 Demonstrated ability in determining which guṇas are predominant in prakṛti (individual constitution) and vikṛti (pathological condition).

2.1.2 Demonstrated ability to determine the role and influence of the 10 pairs (or 20 total) of gurvādi guṇas (opposing qualities) in the prakṛti (individual constitution) and vikṛti (pathological condition) through the data received from the history and examination of the client.

2.1.3 In-Depth Knowledge of:

- The gurvādi guṇas (10 pairs of opposing qualities) associated with the pañca mahābhūtas (five elements) and the three doṣas
- The guṇas (qualities) causing doṣas to accumulate and become aggravated
- How diet, climate, season, and age impact the guṇas(qualities) and subsequently contribute to the cause of disease
- What constitutes excess, deficiency, and the imbalance of the guṇas (qualities) in doṣa vikṛti (Abnormal doṣa variance)
- The theory of similar and dissimilar and balancing the guṇas (qualities) through proper daily and seasonal routines for a person of each constitutional type

Category 2.2 Prakṛti (Individual constitution) and Vikṛti (Pathological condition)

2.2.1 Demonstrated ability to assess the physical and mental prakṛti (individual constitution) and doṣic imbalance using trividha (three-fold diagnostic method) aṣṭavidha (eight-fold diagnostic method) and daśavidha parīkṣā (tenfold diagnostic method)

In-Depth Knowledge of:

2.2.2 Trividha Parīkṣā (Three-fold Diagnostic Method)

- Darśana (Observation)
- Sparśana (Palpation)
- Praśna (Questioning)

2.2.3 Eight-fold Diagnostic Method (Aṣṭavidha Parīkṣā)

- Nāḍī Parīkṣā (Pulse Assessment)
- Mūtra Parīkṣā (Urine Assessment)
- Mala Parīkṣā (Stool Assessment)
- Jihvā Parīkṣā (Tongue Assessment)

- Śabda Parīkṣā (Speech and Voice Assessment)
- Sparśa Parīkṣā (Skin Assessment)
- Dṛk Parīkṣā (Assessment of Eyes)
- Ākṛti Parīkṣā (General Appearance of external features)

2.2.4 Ten-fold Diagnostic Method (Daśavidha Parīkṣā)

- Dūṣyam (Structural and functional abnormalities of the body)
- Deśam (Geographical nature of the place where client lives)
- Balam (Physical strength)
- Kālam (The season and climatic conditions)
- Anala (digestive fire of the client)
- Prakṛti (Constitution)
- Vayas (Age of the client)
- Sattva (Psychological nature of the client)
- Sātmya (General and personal habits of the client)
- Āhāra (Nature of the patient's diet and sensory intake)

2.2.5 In-Depth Knowledge of Additional items:

- Sāra (Quality of Dhātus)
- Samhanana (Physical Build)
- Pramāṇa (Measurement of Body- Height, Weight, Posture, Circumference of Head)
- Sātmya or client's ability to adapt to Āhāra (Diet), Dravya (Herbs), Vihāra (Lifestyle and Behavior)
- Āhāra Śakti (Ability to Digest)
- Vyāyāma Śakti (Stamina, endurance, and capacity to exercise)

2.2.6 In-Depth Knowledge of:

- Tridoṣa (three humors) theory including the gurvādi guṇas (10 pairs of opposite qualities)
- Physical and mental attributes in a prakṛti (individual constitution) including but not limited to height, weight, color of eyes, skin, mental abilities, memory, intellect, diet, tastes, digestive fire, quality of skin, temperature, hair, appetite, elimination, stress factors
- Physical and mental attributes that change with time: diet, climate, season, stress, and environment
- Changes in vikṛti (pathological condition) due to changes in agni (digestive fire), guṇas (qualities) resulting in digestive disorders, appetite, and elimination changes
- Guṇas (attributes) that cause the doṣas to accumulate and become aggravated
- Āhāra (diet) and vihāra (lifestyle); how diet, climate, season, and age impact the prakṛti (individual constitution) and subsequently contribute to doṣa vikṛti (aggravation of doṣa) and cause of disease
- What constitutes excess, deficient and the imbalance of doṣas within their own site
- Theory of similar and dissimilar and balancing the doṣa vikṛti (aggravation of doṣa) through a proper daily routine, seasonal routine, and basic rasas (six tastes) for a person of each constitutional type

Category 2.3 Doṣas, Sub-doṣas, Dhātus (Tissues), Srotāṃsi (Pathways)

2.3.1 Demonstrated ability in determining the state of doṣas, sub-doṣas, dhātus, upadhātu (By products of nutrition) and srotāṃsi (pathways).

2.3.2 Demonstrated ability to assess the state of doṣas, and sub-doṣas, dhātus (tissues), upadhātus (By products of nutrition), and srotāṃsi (pathways) involved through darśana (observation), sparśana (palpation) and praśna (asking questions) and is able to interpret the information received.

2.3.3 Darśana (Observation)

- Demonstrated ability to interpret information that has been received upon darśana (observation) to determine the involvement (vitiation) of doṣas, sub-doṣas, dhātus (tissues) and srotāṃsi (pathways).

2.3.4 Sparśana (Palpation)

- Demonstrated ability to interpret information that has been received upon palpation (sparśana) to determine the involvement (vitiation) of doṣas, sub-doṣas, dhātus (tissues) and srotāṃsi (pathways).

2.3.5 Praśna (Interview / Questioning)

- Demonstrated ability to interview/question about the current state of digestion, elimination, sleep, stress level, energy level and emotional level.

2.3.6 In-Depth Knowledge of:

- Healthy dhātus – tissues (dhātu sārata – Signs of ideal tissues).
- How to properly examine the client utilizing the methods of trividha parīkṣā (three-fold clinical assessment), aṣṭavidha parīkṣā (eight-fold clinical assessment), daśavidha parīkṣā (tenfold clinical assessment)
- Definition, qualities, locations, actions, and functions of the three doṣas and 15 sub-doṣas
- Causes of imbalance, signs of imbalance of the three doṣas and 15 sub-doṣas
- Definition, location, and function of the dhātus (tissues) and how they are formed.
- Definition of upadhātus (By products of nutrition) and dhātu malas (waste products of nutrition)
- Relationship between dhātus (tissues), upadhātus (By products of nutrition) and dhātu malas (waste products of nutrition)
- Definition, types, qualities, and functions of ojas (Essence of Nutrition)
- Relationship of doṣas and dhātus (tissues)
- Definition, origin, and function of the srotāṃsi (pathways)
- Factors causing abnormality of dhātus (Tissues)
- Vṛddhi (aggravation) and kṣaya (depletion) of the doṣas and dhātus (tissues)
- Normal and abnormal functions of srotāṃsi (pathways)

Category 2.4 Agni (Digestive fire) – Āma (Undigested material), Malas (Waste)

2.4.1 Demonstrated ability to assess the state of the malas (waste), agni (digestive fire), and āma (undigested material) through praśna (questioning) and darśana (observation).

2.4.2 Demonstrated ability to:

- Determine the state of agni (digestive fire) by questioning the client for rugṇa patrakam (Client intake form).
- Questioning about appetite, digestion, and elimination
- Ability to recognize the signs and symptoms of āma (undigested material) in the body
- Questioning about digestion
- Observation of tongue, stools, and body odor
- Ability to recognize the signs and symptoms of normal and vitiated mala (waste)
- Questioning about urination, elimination and sweat patterns
- Observation of the urine, stools and sweat to include color, volume, odor, clarity

2.4.3 In-Depth Knowledge of:

- Symptoms and signs of the four states of agni (digestion)
- Definitions of āma (undigested material), agni (digestive fire) and mala (waste)
- How āma (undigested material) is formed
- Types agni (digestive fire) and āma (undigested material)
- Functions of agni (digestive fire)
- Signs and symptoms of the altered states of agni (digestive fire)
- Signs and symptoms of āma (undigested material) in the mūtra (urine), purīṣa (feces), sveda (sweat), on the jihvā (tongue), netra (eyes), nakha (nails), tvak (skin), etc.
- Functions of the malas (waste)
- What constitutes the normal and abnormal quantity and qualities of malas (waste)

Category 2.5 Prāṇa (vital energy) –Tejas (radiance) –Ojas (essence of life)

2.5.1 Demonstrated ability to determine the state of prāṇa, ojas and tejas

2.5.2 Demonstrated ability to assess the following:

- The state of prāṇa (vital energy), tejas (radiance) and ojas (essence of life) through observation and the interview process (consultation) which explores the state of prāṇa (vital energy), tejas (radiance) and ojas (essence of life).

2.5.3 In-Depth Knowledge of:

- Definition of prāṇa (vital energy), tejas (radiance) and ojas (essence of life)
- Relationship of prāṇa (vital energy), tejas (radiance) and ojas (essence of life) to vāta, pitta and kapha
- Signs of healthy or balanced prāṇa (vital energy), tejas (radiance) and ojas (essence of life)
- Symptoms of high ojas (essence of life)
- Symptoms of low ojas (essence of life)
- Displaced ojas (essence of life)

- Factors causing imbalance in prāṇa (vital energy), tejas (radiance) and ojas (essence of life)

Section 3: Assessment and Diagnosis

Category 3.1 Personal and Family Health History

3.1.1 Demonstrated ability to effectively take a detailed current and past, personal, and family health history with the following ability/abilities: Asks questions which gather the appropriate information necessary to understand the prakṛti (individual constitution) and vikṛti (pathological condition) of the client and refers a client for disease management care, when necessary.

3.1.2 In-Depth Knowledge of:

- What the chief complaint is, based on initial consultation and the importance of mitigating factors such as: origin, duration, progress, factors that aggravate and relieve the symptoms.
- Past medical history, including illness, injuries, surgeries, hospitalizations
- Family history affecting vikṛti (pathological condition) of the client
- Social history affecting vikṛti (pathological condition) of the client
- Roles of work relationships and home environment affecting vikṛti (pathological condition) of the client
- Medication and supplements a client are taking
- Any food or drug allergies or intolerances the client has
- Nutritional habits of the client
- Good listening skills, eye contact and develops rapport with client
- How to ask open ended questions with each client
- The importance of obtaining a good health history and demonstrates this ability
- Accurate assessment and plan of action
- Client's satisfaction of Āyurveda methodology
- Improving the understanding of the consultation
- Improvement of client compliance to any suggestions or guidelines given

Category 3.2 Vital Signs

3.2.1 Demonstrated ability to effectively take basic vital signs:

- Taking a client's measurements: (Requires a description of measurements)
- Assessing a client's height and weight
- Taking a client's pulse
- Taking the blood pressure

3.2.2 In-Depth Knowledge of:

- Pulse
 - Able to interpret pulse rate, rhythm, and volume

- Taking pulse at appropriate site
- Normal and abnormal pulses
- Blood Pressure
 - Determining what is blood pressure
 - The systolic and diastolic pressure (normal, abnormal, physiology)
 - Measuring blood pressure
- Respiration
 - Determining respiration
 - Normal and abnormal respiration

Category 3.3 Nidāna (Etiological Factors)

3.3.1 Demonstrated ability to determine the nidāna (etiological factors) responsible for the doṣic imbalance:

- Interprets and understands the case history of the client
- Conveys the factors causing the general *doṣic* imbalance with the client

3.3.2 In-Depth Knowledge of:

- The three fundamental causes of disease: Asātmyendriyārtha saṃyoga (abnormal interaction of senses and their objects), prajñāparādha (intellectual transgression), pariṇāma (change due to time)
- How the senses might be misused (over-used, under-used or wrongly used) in a manner that causes the doṣas to become aggravated
- How daily and seasonal routines impact the flow of the doṣas
- Qualities that cause the doṣas to go through the six stages of pathogenesis
- How constitution, climate, season, and age impact the movement of the doṣas
- Additional nidānas (causative factors) in the disease process
- How the suppression of natural urges contributes to the disease process
- Specific etiological factors of each symptom and disease

Category 3.4 Pathology (Vikṛti Vijñāna)

(PLEASE NOTE: The translations of the Sanskrit disease names are broad correlations of conventional diagnoses but not exclusive to those pathologies. Other conditions which present with similar symptoms and pathologies may also be included under some of the Ayurvedic disease names. There are many recent pathologies that may not have specific names in Ayurveda, but can be understood by the pathological changes in the dosas and root cause etiology)

3.4.1 Demonstrated ability to and In-Depth Knowledge of:

- Identify *doṣa vṛddhi* (increase) and *kṣaya* (decrease)
- Identify *dhātu vṛddhi* (increase), *kṣaya* (decrease), and *duṣṭi* (abnormality)
- Identify *mala vṛddhi* (increase) and *kṣaya* (decrease)

- Understand *doṣa gati* (movement of dosas):
 - *Ūrdhvaga* (upwards), *adhoga* (downwards), and *tīryak* (horizontally)
 - From *koṣṭha* (GIT) to *śākha* (extremities) and from *śākha* (extremities) to *koṣṭha* (GIT)
 - In the 6 stages of *samprāpti* (Pathogenesis)
- Understand causes of *doṣas* moving from *koṣṭha* (GIT) to *śākha* (extremities) and from *śākha* (extremities) to *koṣṭha* (GIT)
- Understand relationship between the *doṣas*, *dhātu* (Tissues), and *malas* (waste)
- *Srotāmsi* (pathways):
 - Causes of *srotovaiguṇya* (abnormalities in the qualities of the pathways)
 - Causes and signs of *sroto duṣṭi* (pathological conditions associated with the pathways)
- *Avaraṇa* (Aggravated doshas or ama blocking the functions of vata) pathology and its signs
- Various *vyādhis* (disease conditions):
 - Identify *vyādhi lakṣaṇas* (signs of disease)
 - Identify *vyādhi avastha* (stage of pathology): *sāma* (with ama) or *nirāma* (without ama) state of *doṣa*, *dhātu*(tissues), and *malas*(waste)

3.4.2 In-Depth Knowledge of *vyādhi* (disease) classifications:

- *Nija* (internal), *āgantū* (external), and *mānasika* (psychological)
- *Santarpaṇa* (Diseases due to over nourishment) and *apatarpaṇa* (diseases due to under nourishment) *janya* (generation)
- According to *roga mārga* (disease pathways): *Bāhya* (external), *ābhyantara* (internal), or *Madhya* (intermediate)
- *Sāmānyaja* (General classification) or *nānātmaja* (specific classification – by specific doshas ie. 80 vata conditions, 40 pitta conditions and 20 kapha conditions)
- *Prognosis*: *Sukha sādhyā* (Easily curable), *kaṣṭha sādhyā* (Curable with difficulty), *yāpyā* (Manageable but incurable), or *asādhyā* (incurable)
- *Knowledge of the nanatmaja vikaras*: *vataja*, *pittaja* and *kaphaja*

3.4.3 In-Depth Knowledge of the classical diseases listed below, including how they are described in Madhav Nidhan, any differences seen in the samhitas regarding these diseases and the opinions of the chief commentators:

- According to *srotas*:
 - *Prāṇavaha Srotas* (Respiratory system): *Kāsa* (Cough), *Śvāsa* (Asthma / difficulty in breathing), *Hicca* (hiccups)

- *Annavaha Srotas* (digestive system): *Ajīrṇa* (Indigestion), *Aruci* (Ageusia/ inability to taste), *Cardi* (vomiting), *Amlapitta* (Peptic ulcers), *Ānāha* (heartburn), *Udara śūla* (colic pain), *Kṛmi* (infection / parasites), *Grahaṇi* (Spru / IBS/ Celiac disease), *Atisāra* (Diarrhea), *Arśhas* (hemorrhoids)
- *Ambuvaha Srotas* (Pathway for fluids): *Tṛṣṇa* (Morbid thirst), *Śoṭha* (Swelling / edema), *atisara* (diarrhea)
- *Rasavaha Srotas* (Pathway for plasma): *Jvara* (All types of fevers), *Pāṇḍu* (Anemia)
- *Raktavaha Srotas* (Pathway for blood): *Raktapitta* (Bleeding disorders), *Dāha* (burning sensation), *Vātarakta* (Rheumatoid arthritis / Gout), *Kāmala* (Jaundice)
- *Mamsavaha Srotas* (Pathway for Muscle tissue): *Granthi* (Aneurysm), *Galaganda* (Goiter), *Gandamala*(mumps / Scrofula)
- *Medovaha Srotas* (Pathways of fat): *Staulya* – obesity (*Medo roga* – disease of fatty tissue)
- *Asthivaha Srotas* (Pathways of the bony tissue): *Asthigata vāta* (Abnormal vata localized in the joints), *Sandhigata vāta* (osteo arthritis), *Āma vāta* (Rheumatic fever)
- *Majjavaha Srotas* (pathways of the bone marrow): *Pakṣāvadhā* (Paralysis associated with stroke), *Ākṣepaka* (Spasm / convulsions), *Kampavāta* (Parkinson’s disease), *Apasmāra* (epilepsy), *Gṛdrasi* (sciatica)
- *Śukravaha Srotas* (pathways of the reproductive tissue): *Klaibya* (impotency)
- *Ārtavavaha and Stanyavaha Srotas* (pathway for female reproduction): *Yoni vyāpat* (disorders of the uterus), *Pradara* (Leukorrhoea), *Stanya rogas* (disorders of the breasts)
- *Mutravaha srotas* (urinary tract): *mutrakrucchra* (dysuria and mutragata (Urinary retention/obstruction), *Prameha* (Urinary disorders including diabetes)
- *Purishavaha srotas* (excretory system): *pravahika* (dysentery), *Malabaddhata* (chronic constipation)
- *Swedavaha srotas* (sweat carrying channel): *asweda* (absence of sweating), *atisweda* (excessive sweating) and *hydradenitis*
- *Manovaha Srotas* (Pathways of the mind): *Unmāda* (psychosis and major depression), *Smṛtibhramṣa* (memory loss, lack of cognition)
- According to organ:
 - *Hrid roga* (Heart Disease)
 - *Tvak* (Skin): *Visarpa* (Erysipelas), *Kaṇḍu* (Urticaria), *Kuṣṭha* (Skin Disorders)
 - *Vṛkka* (Kidneys): *Aśmari* (Kidney calculi)

*Additional diseases: *Gulma* (Abdominal tumors), *Arbuda* (All types of Cancers)

3.4.4 Basic knowledge of the western diseases listed below, including a general appreciation of epidemiology, causation, pathogenesis and clinical presentation:

- Jwara
 - Influenza
 - Lyme Disease
 - STIs
 - Visham jwara
 - Sannipataka jwara
 - Rajyakshma
- Common infectious diseases
 - RSV
 - Gastroenteritis
 - Food poisoning
- Emerging infectious diseases
 - Lyme Disease & co-infections
 - Babesiosis
 - Bartonella
 - Ehrlichiosis
 - Mycoplasmosis
 - Tularemia
 - West Nile
 - HIV
- Annavaha srotas & purishavaha srotas
 - Chronic diarrhea
 - Candidiasis
 - Parasitic infections (krumi)
 - Food allergies
 - Chronic gastritis
 - GERD
 - Irritable bowel syndrome
 - Gluten sensitivity and celiac disease
 - Hemorrhoids.
 - Inflammatory bowel disease (ulcerative colitis, Crohns, microscopic colitis)
- Ambuvaha srotas
 - Diabetes
 - Dehydration
- Pranavaha srotas
 - Sinusitis
 - Chronic bronchitis
 - Bronchial asthma
 - Allergies/hay fever
 - Walking pneumonia

- Rasavaha srotas
 - Hyperlipidemia
 - Eczema
 - Psoriasis
 - Urticaria
 - Acne
- Raktavaha srotas
 - Hypertension
 - Ischemic heart disease,
 - Arrhythmias
 - Peripheral vascular disease
 - Anemia
 - Chronic liver diseases: Hepatitis B & C and non-alcoholic fatty liver disease
 - Thrombophlebitis
- Mamsavaha srotas
 - Chronic pain syndromes
 - Fibromyalgia
 - Chronic fatigue syndrome
 - Tendinitis
 - Plantar fasciitis
- Medovaha srotas
 - Obesity
- Astivaha srotas
 - Osteoarthritis
 - Rheumatoid arthritis
 - Psoriatic arthritis
 - Gout
 - Osteoporosis
 - Scoliosis
- Majjavaha srotas
 - Sleep disorder
 - Migraine
 - MS
 - Headaches
 - Epilepsy
- Shukravaha srotas
 - Prostatitis
 - Prostate cancer
 - Erectile dysfunction
 - Infertility
- Artavavaha srotas
 - Menorrhagia
 - Dysmenorrhea
 - Amenorrhea

- PMS
- Support for normal pregnancy
- Menopause
- Manovaha srotas
 - Anxiety
 - Panic attacks
 - Stress
 - PTSD
 - Eating disorders (anorexia nervosa, bulimia)
 - Alcoholism
 - Major depression
 - Bipolar
 - Schizophrenia
- Sthanyavaha srotas
 - Support for lactation
 - Tender breasts
 - Fibrocystic breast disease
 - Breast cancer
- Mutravaha srotas
 - UTI
 - Irritable bladder syndrome
 - Incontinence
- Metabolic disorders
 - Thyroid diseases
 - Adrenal fatigue
 - Diabetes

Category 3.5 Saṃprāpti (Pathogenesis)

3.5.1 Demonstrated ability to determine the current stage of saṃprāpti by darśana (observation), sparśana (touch) and praśna (questioning) and evaluate the client and determine the stage of pathology the client is experiencing. Describe the pathology in terms of the stage of disease along with the involvement of the doṣa, sub-doṣa, dhātu and srotas in the disease and determine the state of agni in the disease.

3.5.2 Demonstrated ability to discern the difference between the stages of sañcaya (accumulation), prakopa (aggravation) and prasara (overflow) and relocation, manifestation, and differentiation to have knowledge of the limitations of the scope of practice.

3.5.3 In-Depth Knowledge of:

- All stages of disease (śaḍ kriyā kāla)
- Signs of disease at each stage including relocation, manifestation and diversification.
- Specific pathology related to disease conditions

Category 3.6 Counseling Skills

3.6.1 Demonstrated ability to provide counseling with the following:

- Conveys information and ideas correctly (to educate)
- Listens and understands
- Supports a client to make positive changes in his/her life
- Earns the clients' trust

3.6.2 In-Depth Knowledge of and demonstrated ability to:

- Communicating effectively
- Demonstrating effective skills for counseling
- Recommending changes in diet and lifestyle as necessary, due to doṣic tendencies and how they relate to challenges
- Supporting each person to make successful changes based on their constitutional type
- Supporting a rājasika (hyperactive /motivated) and tāmasika (dull/ disassociated) client to make changes

Category 3.7 Medical Reports

3.7.1 Demonstrated ability to interpret basic western diagnostic and medical reports. Understand the diagnostic assessments of physician, chiropractor, physical therapists and other health and medical professionals, including:

- Nature of the diagnostic test (what it is) and why the test is performed.
- Normal and abnormal tests.

Noted Limitation: The doctor is not required to be able to interpret raw data or the test results, but to understand the interpretation of the test from the expert who has reports the results.

3.7.2 Demonstrated ability to:

- Recognize when test results might indicate “can’t afford to miss” diagnoses that require referral
- Recognize when tests, although technically normal, indicate less than optimal health, (such as a higher than optimal TSH or a lower than optimal vitamin D)
- Understand how to use tests to corroborate or support their Ayurvedic diagnostic methods
- Comprehend medical records brought in by a patient and grasp their significance in the overall history
- Be aware of which tests should be ordered to exclude a serious illness
- Know how to write a specific, targeted referral letter to support their patient in excluding or confirming important diagnoses requiring medical attention

3.7.3 Basic knowledge of the following blood tests:

- Basic Chemistry Screen
 - Glucose
 - Urea nitrogen
 - Creatinine
 - EGFR
 - Serum sodium
 - Serum potassium
 - Serum chloride
 - Serum magnesium
 - Serum calcium
 - Serum phosphate
 - Serum uric acid
 - Serum albumin
 - Serum globulin
 - Total serum protein
 - Bilirubin (total * direct* indirect*)
 - Alkaline phosphatase
 - Serum iron
 - Ferritin
 - GGT/GGTP
 - Serum LD
 - AST (SGOT)
 - ALT (SGPT)
 - Cholesterol
 - Triglycerides
 - HDL
 - LDL
 - Homocysteine (understand why it is not, but should be, a basic screen)
 - Apolipoproteins (understand why it is not, but should be, a basic screen)
- Basic Hematology Tests
 - White blood count and differential
 - Hemoglobin
 - Hematocrit
 - Red blood cell indices:
 - MCV
 - MCH
 - MCHC
 - RDW (red blood cell distribution width)
 - Reticulocytes
 - Platelet count
- Commonly assessed Hormone Tests
 - TSH
 - T3 T4
 - Cortisol

- Testosterone
 - LH
 - FSH
- Vitamin D Level
- Inflammatory Markers
 - CRP
 - Rheumatoid factor
 - ANA
- HbA1c
- Tumor Markers
 - PSA
 - AFP
 - Ca 125
- Standard Urinalysis
 - Volume, color, turbidity
 - Specific gravity
 - Ph
 - Protein
 - Glucose
 - Ketones
 - Bilirubin
 - Heme
- Stool Tests
 - Fecal fat
 - Stool culture and sensitivity, O&P
 - FOB
- Imaging
 - Reasons for performing ultrasound studies
 - Abdominal ultrasonography
 - Echocardiography
 - Fetal ultrasound
 - Pelvic and transvaginal ultrasonography
 - Dangers, pitfalls & uses of CT scans
 - Calcium count/heart scan
 - Reasons for performing MRI & type of information obtained
 - Dangers & uses of x-rays
 - Dexascan for bone density
- Endoscopy
 - Reasons for performing upper GI & colonoscopy and type of information obtained
- Pathology
 - Understand cancer staging, grading report and hormone sensitivity

Category 3.8 Client Strengths and Assets

3.8.1 Demonstrated ability in assessing and determining client's strengths and willingness to follow recommendations:

- Client's compliance
- Memory of the client
- How the qualities noted above influence the outcome of a case

Category 3.9 Research

3.9.1 Demonstrated ability to:

- Participate in original research
- Write scholarly review articles of the literature
- Present their research, reviews and case studies at conferences
- Critically read the reported data
- Identify flaws in studies (sample size, personal bias, etc)

3.9.2 Knowledge of:

- How to read research abstracts
- The purpose of research
- Basic research methods
- How different types of research are conducted

Section 4: Recommendations, Treatment and Other Interventions

Category 4.1 Āhāra: Food/Diet

4.1.1 In-depth knowledge to recommend or prescribe the appropriate food choices and proper āhāraavidhi (eating behaviors) in accordance with the prakṛti (individual constitution), vikṛti (pathological condition), guṇas (qualities), rasa (taste), ṛtu (season), agnibala (digestive strength) and vaya (age) of the client.

4.1.2 Demonstrated ability in the selection and preparation of appropriate foods and spices as per the prakṛti (individual constitution), vikṛti (pathological condition), guṇas (qualities), rasa (taste), ṛtu (season), agnibala (digestive strength) and vaya (age) as well as demonstrate proper āhāraavidhi (eating behaviors) through their own practice.

4.1.3 In-Depth Knowledge of:

- The Six Tastes
 - Six tastes, their elemental make up and qualities

- Rasa (taste), vīrya (potency) and vipāka (post digestive effect) of the tastes
- The gurvādi guṇas (10 pairs of opposite qualities) of each taste
- Effects of each taste on doṣas, dhātus (tissues) and malas (waste)
- Tastes that are bṛmhaṇa (nourishing) and those that are laṅghana (depleting)
- Effect of the tastes and foods on agni (digestive fire) and āma (undigested material)
- Elemental make up of foods (mahābhoutika āhāra – five elements in food)
- Dietary Guidelines
 - Suggests proper guidelines for healthy eating
- Specific Foods and Spices
 - Foods in each major category (Grains, meats, dairy, etc.) and their effect on their actions on the three doṣas
 - Spices and their effect upon the doṣas
- Fasting
 - Fasting able to offer types of fasting
 - Liquid, juice, fruit, one meal per day
- Preparation of Food
 - How processing food changes its qualities
 - How to prepare basic foods such as kichari, ghee and buttermilk
- Rituals of Eating
 - Importance of saying grace before meals
- Other
 - Importance and intake of uṣāpāna (cooked water) in the mornings

Category 4. 2 Vihāra: Lifestyle

4.2.1 Demonstrated ability to recommend or prescribe appropriate dinacaryā (daily), ṛtucaryā (seasonal) and life cycle routines as per the prakṛti (individual constitution), vikṛti (pathological condition), and guṇas (qualities). The doctor can recommend at-home svasthavṛtta (preventive and promotive) measures and sadvṛtta (positive conduct) measures.

4.2.2 Demonstrated ability and in-depth knowledge to recommend, and prescribe the following:

- Recommend daily routines (review techniques with client)
 - Recommend proper oral hygiene (tongue cleaning, teeth brushing and flossing)
 - Taking care of Eyes (eye wash)
 - Self abhyaṅga (oil application)
 - Drinking uṣāpāna (cooked water) in the morning
 - Netī (nasal saline)

- Activities to promote sleep before bed
- Recommend adjustments to the daily routine based on season
- Support the client to make lifestyle changes
 - Adjusting bedtimes and wake up times according to dosha, as well as season
 - Times to take food
 - Instruct the client in modifying lifestyle in accordance with the seasons
- Sadvr̥tta (Good moral conduct)
 - Encourage devotional and spiritual practices
 - Encouraging mindfulness throughout the day
 - Encourage to cultivate loving kindness, compassion, joy, and equanimity
- Modify the daily, seasonal and lifecycle routines of the patient in accordance with their underlying disease

4.2.3 In-Depth Knowledge of:

- Doṣas increasing or decreasing during various times of the day and season
- Age affecting the doṣas and agni (digestive fire)
- Influence of appropriate physical, devotional, spiritual practices on doṣas and guṇas (qualities)
- Twenty guṇas (qualities), doṣas, agni (digestive fire), āma (undigested material), ojas (essence of life)
- Mahāguṇas - sattva, rajas, tamas (Three Primal States)
- Drinking uṣāpāna (cooked water) in the morning
- Lifestyle impacting digestion and elimination
- A regular routine influencing the doṣas
- Practice of abhyaṅga (oil application), the oils to be used for abhyaṅga (oil application), different types of abhyaṅga (oil application)
- Effective use of daily routine
- Effective use of seasonal routine
- Devotional and spiritual practices affecting the mind and body
- Rātrīcaryā (evening routine)
- Ṛtusandhi (transition of the seasons)
- Rasāyana (rejuvenating) foods
- Vājīkaraṇa (aphrodisiac) foods
- Resisting and not resisting urges
- How specific diseases alter general lifestyle recommendations

Category 4.3 Senses

4.3.1 Demonstrated ability and knowledge to recommend or prescribe sātmyendriyārthasaṃyoga (the appropriate use of sight, smell, touch, taste, and hearing), administer appropriate treatments and the use in management of disease. As follows:

- Aromatic Therapy: The doctor can identify excessive utilization, deficient utilization, and mis-utilization of the sense of smell and instruct the client to adjust their aromatic environment to support the healing process. This might include identifying substances that are disturbing the sense of smell as well as recommending the use of doshically appropriate aromatic herbs.
- Taste Therapy (diet and herbs): The doctor can identify excessive utilization, deficient utilization, and mis-utilization of the sense of taste and instruct the client to adjust their gustatory environment (for more information see the food section) to support the healing process. This might include correcting a diet that is too salty, too pungent, too sweet, etc. and recommending a doshically appropriate balance of tastes.
- Touch Therapy (self-massage): The doctor can identify excessive utilization, deficient utilization, and mis-utilization of the sense of touch and instruct the client to adjust their tactile environment to support the healing process, such as by instructing the client in Ayurvedic self-massage.
- Sound therapy: The doctor can identify excessive utilization, deficient utilization, and mis-utilization of the sense of hearing and instruct the client to adjust their auditory environment to support the healing process. This might include identifying exposure to loud music or work-related noise as well as recommending methods to mitigate such exposures.
- Visual Therapy: The doctor can identify excessive utilization, deficient utilization, and mis-utilization of the sense of vision and instruct the client to adjust their visual environment to support the healing process. This might include identifying aspects of the client's work or leisure environment, such as excess screen time, which are stressful to the sense of vision and recommending methods to mitigate these exposures.

4.3.2 In-Depth Knowledge of:

- The sensory and motor faculties
- Relationship of pañca mahābhūtas (five elements) to each sensory and motor faculty
- Effect of appropriate, excessive and absence of sensory stimuli on each of the five sensory faculties and mind
- Sensory stimuli affecting the doṣas
- Appropriate and inappropriate use of senses
- Different oils used for nasya
- Touch therapy including different forms of abhyaṅga (oil application), and appropriate oils used for abhyaṅga (oil application)

- Different tastes and influence on doṣas
- The mind is and its functions
- Relationship between the five elements and their respective tanmātra (five subtle elements), sense and motor organ

Category 4.4 Psychiatry (Bhūtavidyā/Manovijñāna)

4.4.1 Demonstrated ability and in-depth knowledge to competently recommend diet (*āhāra*), lifestyle (*vihāra*), positive conduct (*acāra*), herbs (*dravya*) and treatments (*cikitsā*) to treat pathologies of the mind.

4.4.2 Demonstrated ability to:

- Take a psychiatric history from an Ayurvedic standpoint.
- Design, implement and manage a plan to pacify the *doṣas* within the mind and provide treatments to treat mild pathologies of the mind.

4.4.3 Demonstrated ability and in-depth knowledge to make the following recommendations and implement the following therapies with the goal of pacification of the *doṣas*.

- Visual Therapy: Sāttvika (purity. positive) intake of impressions and the proper use of color
- Auditory Therapy: Sāttvika intake of impressions and the proper use of sound
- Aromatic Therapy: Sāttvika intake of impressions and the proper use of aromas
- Gustatory Therapy: Sāttvika intake of impressions and the proper use of foods
- Tactile Therapy: Sāttvika intake of impressions and the proper use of touch
- Effective daily routines
- Changes to a person's behavior
- Herbal remedies for the balancing the *doṣas* of the mind, restoring a healthy balance of *prāṇa* (vital energy), *tejas* (radiance) and *ojas* (essence of life) are an important part of treating specific disease conditions
- Dietary remedies that not only balance the *doṣas* of the mind and restore a healthy balance of *prāṇa* (vital force), *tejas* (radiance) and *ojas* (essence of life) but also are an important part of treating specific disease conditions
- Lifestyle remedies that not only balance the *doṣas* of the mind and restore a healthy balance of *prāṇa* (vital force), *tejas* (radiance) and *ojas* (essence of life) but also are an important part of treating specific disease conditions
- Conduct correction that not only balance the *doṣas* of the mind and restore a healthy balance of *prāṇa* (vital force), *tejas* (radiance) and *ojas* (essence of life) but also treating specific disease conditions
- Additional sensory therapies that not only balance the *doṣas* of the mind and restore a healthy balance of *prāṇa* (vital force) –*tejas* (radiance) and *ojas* (essence of life) but also

are an important part of treating specific disease conditions including visual (color), olfactory (aromas, *netī (nasal salve)*, *nasya – medicated nasal drops*), auditory (*mantra* and music) and touch (massage / oil therapies).

4.4.4 In-Depth Knowledge of:

- Diagnosing the mental prakṛti (individual constitution) and vikṛti (pathological condition) by quantifying sattva, rajas, and tamas
- The effects of sensory input on the mind
- Effective use and misuse of the five senses
- Overuse, deficient use and misuse for each sense organ
- Prāṇa (vital force), tejas (radiance) and ojas (essence of life) and how to determine their state
- Three guṇas (qualities – sattva, rajas and tamas) and how to determine their state
- What constitutes healthy behavior
- Effect of sensory input on the mind
- Designing a treatment program utilizing diet, lifestyle, adjustments to behavior and how the senses are used
- Various approaches to implementing the treatment program including adjusting the pace of implementation of the program based on a client's prakṛti (individual constitution) and vikṛti (pathological condition)
- Effective case management
 - Knowledge of how to conduct follow up visits to monitor progress and make adjustments to the treatment plan including
 - Checking in on how the client is doing implementing assignment/homework plan and lifestyle changes
 - An ability to support the client to be more successful in implementing the treatment plan
 - An ability to assign additional homework / assignments or lifestyle changes at an appropriate time
 - Utilizing of the counseling process noted in the counseling section of this document
- Four aspects of mind- *manas, citta, buddhi (intellect), ahaṁkāra (ego)*
- Definition, qualities, location and functions of mind
- Complementary Vedic sciences that support the ability to bring balance to the doṣa, subtle doṣas and the three guṇas including Yoga, Jyotiṣa and Vāstu. (See related sections of this document.)

4.4.5 Basic Knowledge of:

- Definitions and symptomatology of major diseases of the mind including:
 - Schizophrenia
 - Bipolar disorder
 - Schizo-affective disorder
 - Major depression

- Anxiety disorder
- Sleep disorder
- Post-partum depression
- PTSD
- Personality disorders
- Dementia
- Dissociative identity disorder
- First rank symptoms requiring psychiatric referral

Category 4.5 Doṣas Śamana (Pacification)

4.5.1 Demonstrated ability and in-depth knowledge to recommendation and implement that following therapies with the goal of pacification of the doṣas:

- Herbs and spices: Those that are dīpana - increase agni (digestive fire) and pācana (metabolize āma)
- Diet: See food section (kṣut nigrāha – controlling hunger)
- Sensory Therapies: See sensory therapy section.
- Vyāyāma (Exercise)
- Heat therapies - agni and anagni cikitsā (therapies with and without fire)

4.5.2 Demonstrated ability to design, implement and manage a plan for pacifying the *doṣas* and eliminating *āma* (*undigested material*).

4.5.3 In-depth knowledge of:

- Seven traditional forms of palliative therapy:
 - Dīpana: Herbs/spices that increasing agni
 - Pācana: Herbs/spices that digest āma
 - Kṣudhā nigrāha: Control over diet including the use of fasting
 - Trṣṇā nigrāha: Control over water and oil intake
 - Vyāyāma: Use of exercise
 - Ātāpa sevana: Forms of creating heat without directly increasing agni such as sunbathing
 - Māruta sevana: Ways to cool the body to protect pitta dosha such as moon walks
- Āyurveda anatomy and physiology, qualities, elements, doṣas, sub-doṣas, dhātus (tissues), upadhātus (by products of nutrition), malas (waste), srotas (pathways), agni (digestive fire), āma (undigested material), ojas (essence of life)
- Indications and contraindications for palliation therapy
- How to design a palliation program to correct an imbalance in each doṣa
- Effective application of each therapy noted above
- Assessing the client’s state of agni (digestive fire), āma (undigested material) and ojas (essence of life)

- Assess digestion, tongue, stools, and body odor as a means of identifying āma (undigested material) in the body
- Assessing doṣa vikṛti (pathological condition)
- Use of herbs and spices for balancing agni (digestive fire) and eliminating ama (undigested material)
- Effective, safe, and appropriate, application of diet, herbs, sensory therapies, exercise, and heat treatments.

Category 4.6 Elimination of Aggravated Doṣas (Laṅghana: Pañcakarma)

4.6.1 Demonstrated ability to recommend *pañcakarma* (Elimination of Aggravated of *Doṣas*) programs as well as individual treatments (*śodhana chikitsa – elimination therapies*), including: classical *pañcakarma* (Elimination of Aggravated of *Doṣas*), and treatments for individual conditions, including the use of specialized traditional body treatments.

4.6.2 Demonstrated ability in designing, implementing and managing *pañcakarma* (Elimination of Aggravated of *Doṣas*) programs as well as individual treatments (*śodhana cikitsā – elimination therapies*), including: classical *pañcakarma* (Elimination of Aggravated of *Doṣas*) and treatments for individual conditions, including use of specialized traditional body treatments. Includes *pūrva karma* (*preoperational procedures*) *pradhāna karma* (*main procedure*), (diet, lifestyle & herbs)

4.6.3 Demonstrated ability and in-depth knowledge to make the following recommendations and provide appropriate case management:

Pūrva Karma (*preoperational procedures*)

- Design a *pūrva karma* (*preoperational procedures*) program and should be able to monitor the patient to be look for signs of over and under oleation (oil therapy).
- Manage the administration of the following therapies
 - *Pūrva karma* diet (*preoperational procedures*)
 - Abhyanga (oil application)
 - Udvartana – Dry powder massage (as needed)
 - Swedana – Sweating therapies
 - Shirodhara – Pouring oil on the forehead
 - Katibasti – oil well in lumbar region (As needed)
 - Hridbasti – oil well in heart region (As needed)
 - Udarabasti – oil well on abdomen (As needed)
 - Netrabasti – oil well on eyes (As needed)

Pradhāna Karma

- Design a *pradhāna karma* (main procedure) program and should be able to manage the patient as he/she goes through the program.
 - Vamana – Medicated Emesis (not done routinely in US)
 - Virechana – Medicated Purgation
 - Basti – Medicated enemas
 - Nasya – Medicated nasal drops
 - Rakta Moksha – Blood letting (not done routinely in US)

Paścāt Karma – Rehabilitative measures

- Design a *paścāt karma* (rehabilitative measures) program and manage the patient as he/she goes through the program. This includes restoration of strong digestive fire to nourish, strengthen, and balance the newly detoxified tissues by recommending Rasayan (rejuvenative) herbs according to Prakriti (individual constitution).

4.6.4 In-depth knowledge of:

- *Ama pācana* (digestion of undigested material)
- The process of *pūrva karma* (preparatory procedures)
- The process of *pradhāna karma* (main procedure)
- *Pūrva karma* (preparatory procedures) practice including indications and contraindications
- *Pradhāna karma* (main procedure) practice including indications and contraindications.
- Signs of successful and unsuccessful administration of each practice
- How to adjust the program if the administration of a therapy is not successful.
- Oils and medicines to be used in each practice.
- How to design a complete *pañcakarma* (Elimination of Aggravated of *Doṣas*) program including *pūrva* (preparatory), *pradhāna* (main) and *paścāt* (rehabilitative) *karma* (procedures).
- How to modify the complete *pañcakarma* (Elimination of Aggravated of *Doṣas*) program for patients with a *vāta*, *pitta* and *kapha vikṛti* (pathological conditions).
- How to modify the complete *pañcakarma* (Elimination of Aggravated of *Doṣas*) program for patients with various diseases.
- How to modify a *pañcakarma* (Elimination of Aggravated of *Doṣas*) program with consideration of the patients response to the therapies including but not limited to: Changes in appetite, elimination pattern, and overall strength

Category 4.7 Bṛmhāṇa (Tonification)

4.7.1 Demonstrated ability to design, implement and manage a program of tonification for sustaining the health of the body and mind. Demonstrated ability to recommend and provide the following treatments and interventions:

- Dietary therapies that promote tonification
- Herbal therapies that promote tonification
- Internal and external snehana (oil therapies)
- Daily routines and lifestyle that promotes tonification

4.7.2 In-depth knowledge of:

- Indications and contraindications for tonification therapy
- Designing a tonification program in accordance with the doṣa vikṛti (pathological condition)
- Managing a tonification program and adjust the program in accordance with the client's progress
- Assessing the state of agni (digestive fire), āma (undigested material) and ojas (essence of life)
- How to assess the dhātus (tissues) and the signs of depletion

Category 4. 8 Rejuvenation (Rasāyana)

4.8.1 Demonstrated ability to recommend a post *pañcakarma* (Elimination of Aggravated of Doṣas) rejuvenation program (*paścāt karma*)

4.8.2 Demonstrated ability to design, implement and manage a post *pañcakarma* rejuvenation (*paścāt karma*) for the purposes of rejuvenating the body and mind.

4.8.3 In-depth knowledge of:

- The principles and process of *samsarjana karma* (*rehabilitating diet*); including how restore healthy *agni* (digestive fire) while reintroducing foods into the diet.
- The use of herbs and herbal formulas in the rejuvenation process.
- The appropriate timing for the administration of rejuvenative herbs following *pradhāna karma* (Elimination of Aggravated of Doṣas).
- How to properly monitor a patient during the period of *paścāt karma* (*rehabilitative procedures*) and how to adjust a patient's program in accordance with their response to care.

Category 4.9 Gynecology (Stri Vignan)

4.9.1 Demonstrated ability and in-depth knowledge to offer appropriate recommendations for the specific needs of women of childbearing, menopausal and post-menopausal age.

4.9.2 In-depth knowledge to make recommendations and provide the following treatments and interventions:

- Prescribe and prepare the proper herbal formulas
- Prescribe, administer proper Āyurvedic therapies
- Prescribe modifications in the diet
- Prescribe lifestyle changes
- Monitor patients' progress and make the appropriate adjustments to the treatment plan

4.9.3 Knowledge and demonstrated ability:

- Menstrual cycle from Western and Ayurvedic standpoint
- Normal and abnormal menopausal transition from Western and Ayurvedic standpoint
- Able to take a menstrual history
- Able to take a reproductive history
- Able to take a sexual history and assess issues with drive, desire, orgasm pain affecting sexual functioning
- Specific treatments for the female reproductive system:
 - Herbal douches (*uttarabasti*)
 - Vaginal application of medicated ghees

4.9.4 Basic knowledge of:

- Common diseases affecting the female reproductive system: Basic knowledge
 - Vaginal infections and bacterial vaginosis
 - Fibroids
 - Endometriosis
 - Ovarian cysts
 - Ovarian cancer
 - Uterine hyperplasia
 - PCOS
 - Amenorrhea
 - Dysmenorrhea
 - Menorrhagia
 - Dysfunctional uterine bleeding
 - Cervical dysplasia & HPV
 - Cervical cancer

Category 4.10 Pre-natal, Natal, Post Natal

4.10.1 Demonstrated ability and in-depth knowledge to design, implement and manage diet (*ahāra*), lifestyle (*vihāra*), herbs (*dravya*) and treatments (*cikitsā*) to support pre-natal, natal, post-natal health and pathologies and care of newborns.

4.10.2 Demonstrated ability and in-depth knowledge to recommend and provide treatments and interventions of the following:

- Safely and supportively apply food and lifestyle practices to the pre-natal, natal and post-natal woman. See sections on food and lifestyle.
- Support couples experiencing infertility to restore normal procreative abilities
- Utilize herbs to support and treat pre-natal, natal and post-natal women
- Treat pre-natal, natal and post-natal woman who are experiencing illness
- Provide supportive care for newborn infants
- Provide treatment for newborn infants who are experiencing illness.

4.10.3 In-depth knowledge of:

- Doṣas increasing or decreasing during various times of the day and season
- Age affecting the doṣas and agni (digestive fire)
- Influence of appropriate physical, devotional, spiritual practices on doṣas and guṇas (qualities)
- Twenty guṇas (qualities), doṣas, agni (digestive fire), āma (undigested material), ojas (essence of life)
- Mahāguṇas - sattva, rajas, tamas (three primal states)
- Drinking uṣṇāpāna (cooked water) in the morning
- Lifestyle impacting digestion and elimination
- A regular routine influencing the doṣas
- Practice of abhyaṅga (oil application), the oils to be used for abhyaṅga (oil application), different types of abhyaṅga (oil application)
- Effective use of daily routine
- Effective use of seasonal routine
- Devotional and spiritual practices affecting the mind and body
- Rātrīcaryā (evening routine)
- Ṛtusandhi (transition of the seasons)
- Rasāyana (rejuvenating) foods
- Vājīkaraṇa (aphrodisiac) foods
- Resisting and not resisting urges
- Stages of normal pregnancy
- Disorders of pregnancy
- How herbs affect fertility
- Sage use of herbs during each trimester of pregnancy
- Herbs to support lactation

Category 4.11 Children's Health (Kaumārabhṛtya)

4.11.1 Demonstrated ability and in-depth knowledge to offer appropriate recommendations for children of all ages.

4.11.2 Demonstrated ability and in-depth knowledge of how to design, implement and manage a plan to treat the imbalances in all the srotas (pathways).

4.11.3 Demonstrated ability and in-depth knowledge of how to provide the following treatments and interventions:

- Herbal formulas
- Āyurvedic therapies
- Modifications in the diet
- Lifestyle changes
- Monitor patients' progress and make the appropriate adjustments to the treatment plan

4.11.4 Knowledge and demonstrated ability

- Signs of imbalanced doṣas at kapha stage of life
- Current samprāpti (pathogenesis)
- Cardinal signs of diseases
- Herbs, creating herbal formulas, their synergistic effects
- Herbal preparations (oils, ghees etc)
- Appropriate dosage, time of taking herbs,
- Anupānas (adjuvants) in children
- History and chief texts of kaumārabhṛtya
- Normal child development
- Family dynamics and how they may affect a child's health and achievement
- How to take a history in an adolescent
- Presentation of childhood malignancy and when to refer for investigation of a potential malignancy

4.11.5 Basic knowledge of:

- Overview of the most common pediatric disorders: Basic knowledge
 - Autism spectrum disorders
 - ADHD
 - Dyslexia
 - Failure to thrive
 - Children with developmental delays
 - Children with speech and language disorders
 - Children with intellectual disabilities
 - Management of gifted children
 - Food allergies/sensitivities
 - Environmental allergies (dust, mold, pollen, dander etc.)
 - Asthma (svasa)
 - Eczema
 - Cradle cap
 - Diaper rash
 - Adolescent acne
 - Infantile colic
 - Celiac Disease
 - Epilepsy/seizure disorder
 - Juvenile Inflammatory Arthritis aka Juvenile Rheumatoid Arthritis

Category 4.12 Geriatrics (Jara Chikitsa)

4.12.1 Demonstrated ability and in-depth knowledge to offer appropriate recommendations for the specific needs of patients over the age of seventy.

4.12.2 Demonstrated ability and in-depth knowledge to make the following recommendations and provide the following treatments and interventions:

- Prescribe and prepare the proper herbal formulas
- Prescribe, administer proper Āyurvedic therapies
- Prescribe modifications in the diet
- Prescribe lifestyle changes
- Monitor patients' progress and make the appropriate adjustments to the treatment plan

4.12.3 Knowledge of:

- Specific difficulties involved in taking the history and eliciting the chief complaint in an elderly patient, including: multiple complaints, vague or non-specific symptoms, difficulty in recall, potential need to use an informant other than the patient.
- Specific difficulties involved in taking the past medical history in an elderly patient, including lengthy history, jumbled sequencing, difficulty in recall, potential need to use an informant other than the patient.
- Specific difficulties involved in taking the family history in an elderly patient, including difficulty in recall, potential need to use an informant other than the patient
- Taking a social history in an elderly patient including financial and socio-economic status, living situation, hobbies, social life and support systems.
- Taking a sexual history in an elderly patient without embarrassment.
- Assessing activities of daily living in an elderly patient and to adjust treatment plan to any limitation in these activities.
- Working with a patient who has multiple pathologies.
- Working with a patient taking multiple prescription medications.
- Awareness and ability to negotiate special compliance issues in the elderly patient such as forgetfulness, difficulty swallowing herbs, limitations in preparing remedies etc.
- Most common diseases affecting the elderly population:
 - Cardiovascular disease
 - Hypertension
 - Cerebrovascular disease
 - Diabetes
 - Osteoporosis
 - Osteoarthritis
 - Parkinson disease
 - Dementia
 - Erectile dysfunction
 - Benign prostatic hyperplasia

- Cancers including gastro-esophageal, colorectal, prostatic, breast, lung; other malignancies including chronic lymphoma, multiple myeloma.
- General debilitation

Category 4.13 Surgery (Shalya Tantra)

Basic knowledge to:

- Understand the history, textual references and current Indian use of Ayurvedic surgical techniques in order to foster awareness of the achievements of Ayurvedic surgical tradition
- Understand basic surgical principles in order to support patients who are undergoing or have undergone surgery
- Understand commonly performed surgical operations in order to have a full appreciation of patients' past medical history and current options.

Category 4.14 ENT / Head and Neck Region (ŚālākyaTantra)

4.14.1 Demonstrated ability to recommend preventative care and treatment for common conditions of the head and neck.

4.14.2 Demonstrated ability and in-depth knowledge to offer therapies to treat imbalances of all the organs around and above the neck region.

4.14.3 Demonstrated ability and in-depth knowledge to prescribe herbal formulas, or herb preparations for diseases of all the organs around and above the neck region.

4.14.4 Basic knowledge of:

- Head and neck anatomy
 - Anatomy of the eye as described in classical texts and modern anatomy
 - Anatomy of the ear as described in classical texts and modern anatomy
 - Anatomy of the nose, sinuses, pharynx and larynx
 - Clinical anatomy of the cranial nerves
 - Clinical anatomy of the musculature of the neck
 - Clinical anatomy is indicated by an adequate knowledge to appreciate clinical presentations such as Bell's palsy, facial pain, tunnel vision, numbness of hand and how this relates to head and neck anatomy.
- Netra rog
 - Eye diseases (*hetu, purvarupa, rupa, complications & chikitsa*) that could form a common part of their practice
 - Other eye diseases which they are unlikely to see

- Vartma roga
 - *Kumbhika pitika* (stye)
 - *Praklinna vartma* (blepharitis)
 - *Vata hatha vartma* (ptosis)
 - *Pakshma kopa* (trichiasis)
 - *Uthsangini* (chalazian cyst), *Pothaki* (trachoma)
- Shukla mandala
 - *Arma* (pterygium), *Shuktika* (xerophthalmia), *Sira pidika* (scleritis)
- Krishna mandala
 - *Savrana sukla* (corneal ulceration)
 - *Avrana shukla* (corneal opacities)
 - *Ajakajatha* (prolapsed iris), *Akshi pakathyaya* (keratomalacia)
- Sarvagatha roga
 - Diseases that may spread or cause loss of vision
 - *Abhishyanda* (conjunctivitis)
 - *Adimantha* (glaucoma)
 - *Akshipak* (uveitis)
 - *Anila paraya* (shifting ocular pain due to trigeminal neuralgia)
 - *Anyatho vata* (referred pain in eye, sphenoidal or frontal sinusitis)
 - *Shushaakshipak* (xerophthalmia), *Amladyushtitha* (allergic chemosis), *Siropatha* (episcleritis)
 - *Sira harsha* (acute orbital cellulitis)
- Drushti mandala
 - *Timira kacha* and *linganash* (the progressive stages of cataract).
 - Basic knowledge of:
 - *Bahya linganash* (Loss of vision due to external causes such as head injury, poison.)
 - *Nayanabhigata* (injuries to eyeball)
 - Retinal detachment
 - Vitreous separation
 - Drusen and macular degeneration
- Netra chikitsa
 - Specialized treatments known as *netra kriya kalpas*:
 - *Seka* (eye irrigation):
 - *Snehan* for vata
 - *Ropan* for pitta
 - *Lekhan* for kapha
 - *Aschyotana* (eye drops)

- Snehan for vata
 - Ropan for pitta
 - Lekhan for kapha
 - *Bidalaka* (topical application of pastes over eyelids)
 - *Pindi* (application of bolus of herbs wrapped in cloth)
 - *Tarpana* or netra basti
 - *Anjana* (coryllium application)
- Karna rog
 - *Karna shula* (earache)
 - *Karna nada* (tinnitus)
 - *Badirya* (deafness)
 - *Kaphaj* (conductive)
 - *Vataj* (perceptive)
 - Menier's disease
 - *Karna pratinaha* (perforated eardrum)
 - *Karna kandu* (itching in ear canal)
 - *Karna gutha* (impacted earwax)
 - *Puthi karna* (suppurative otitis media)
 - *Bahya karna rog* (otitis externa)
 - General management of ear diseases
 - Localized ear treatments:
 - *Karna puran* (ear drops)
 - *Karna dhupan* (ear fumigation)
 - *Karna prakshalan* (ear wash/syringing)
 - Practiced by Western medicine; Āyurveda uses decoctions such as triphala
 - *Karna pramarjan* (dry mopping with sterile swab)
- Nasa and gala rog
 - *Pratishay* (rhinitis)
 - *Apinasa and pinasa* (chronic rhinitis and chronic rhino-sinusitis)
 - Allergic fungal sinusitis
 - *Putinasa* (atrophic rhinitis)
 - *Kshavatu* (vasomotor rhinitis, allergic rhinitis)
 - *Parisrava* (rhinorrhea or runny nose)
 - *Nasa shosha* (rhinitis sicca)
 - *Nasanaha* (deviated septum)
 - *Nasa arsha* (nasal polyps)
 - *Galaganda* (goiter)

- Pharyngitis
- Tonsillitis
- Laryngitis
- Mononucleosis
- Basic knowledge of:
 - Diphtheria: vataj, pittaj, raktaj and kaphaj rohini
 - *Valaya* (tumours of throat)
 - *Mamsatana* (throat cancer)
 - *Kantha shakula* (adenoidal hypertrophy)
 - Vocal cord nodules
 - Knowledge of *kriya kalpa* for *shirorog* (specific therapies for diseases of head and neck)
 - *Shiras tarpana* therapies:
 - *Shiro abhyanga*
 - *Shirodhara*
 - *Shiro pichu*
 - *Shiro basti*
 - *Shiro lepa*
 - *Gandusha* (holding full mouthful of medicated fluid in mouth)
 - *Shaman, shidhan* or *ropa* in nature, consisting of decoctions, oils, ghees, honey, meat soup, cow milk or bolus of herbal paste
 - *Kavala* (holding smaller amount of medicated fluid in mouth which allows for the fluid to be rotated)
 - *Dhuma pana* (medicated smoke therapies)
 - *Nasya karma* (nasal administration of herbs)
 - May consist of powders liquids, oil or smoke
 - Knowledge of specific *nasya yogas* for diseases of head
 - Knowledge of symptoms above the neck that require referral to an ophthalmologist, neurologist or ENT surgeon.

Category 4.15 Toxicology (Agada Tantra)

4.15.1 In depth knowledge of the classical teachings on toxicology and can apply these teachings within the context of contemporary environmental and occupational challenges, with the following abilities:

- Able to take an occupational and environmental history
- Able to assess when a patient's complaint could have an occupational or environmental basis.
- Able to provide appropriate treatment for occupational and environmental disorders.

4.15.2 Knowledge of:

- Qualities and categories of poisons according to classical texts
- Food borne transmission of disease according to classical texts and contemporary context
- Vegetable poisons according to classical texts and contemporary context
- Insect bites according to classical texts and contemporary context
- Heavy metals and inorganic poisoning according to classical texts and contemporary context
- Most important zoonotic diseases and their Ayurvedic management.
- Animal bites (in Āyurveda and in contemporary context)
- Babesiosis
- Cat scratch disease (bartonellosis)
- Ehrlichiosis
- Chagas disease
- Lyme disease
- Malaria
- Rocky Mountain spotted fever
- Toxoplasmosis
- Tularemia

Category 4.16 Herbs and Minerals

4.16.1 Demonstrated ability and in-depth knowledge to safely recommend individualized herbal formulas, predesigned herbal medicines, minerals and other natural substances for internal or external use with consideration of the dose (*mātra*), vehicle (*anupāna*) and timing (*auśadha kāla*) for the purpose of balancing *agni*, eliminating *āma* while supporting the *malas* and protecting and building *ojas*, and treating disease. In addition, the doctor is aware of and able to negotiate herb-drug interactions.

4.16.2 Demonstrated ability and in-depth knowledge to administer, combine, provide, compound, and dispense herbal medicines, minerals, or other natural substances. Herbs may be used for internal or external use for the purpose of balancing *agni* and eliminating *āma* while supporting the *malas* and protecting and building *ojas*, as well as for treating specific diseases affecting any *dhātu*, *upadhātu*, *malas* or *srotas* in any stage of the disease pathology.

4.16.3 Demonstrated ability and in-depth knowledge to make the following recommendations and provide the following treatments and interventions:

- Appropriate herbs to balance *agni* (*digestive fire*), eliminate *āma* (undigested material) and support the *malas* (waste) while protecting and building *ojas* (*essence of life*).

- Pre-designed herbal formulas or create custom herbal formulations that include the use of herbs, minerals, or other natural substances for internal or external use with consideration of dose (*mātra*), vehicle (*anupāna*) and timing (*auśadha kāla*).
- Prescribe herbal and related medicines for the purpose of treating disease.

4.16.4 In-depth knowledge of:

- Herb classification and their energetics based on taste (*rasa*), potency (*vīrya*), post-digestive effect (*vipāka*), quality (*guṇa*) and unique action (*prabhāva*)
- The actions of herbs (*karma*). The doctor is well-versed in the major actions of an herb. When Western terminology matches the Saṁskṛta terminology, the Western terms should be known. When a unique action is described in Saṁskṛta that has no simple translation into English, then the Saṁskṛta terminology for that action should be known.
- The effect an herb has on the *agni* (digestive fire), *āma* (undigested material), *doṣas*, and *malas* (waste)
- How to prepare powdered mixtures (*cūrṇa*)
- Appropriate dosage (*mātra*) based on age, strength, *doṣas*, *agni* (digestive fire) and pattern of elimination (*koṣṭha*)
- The indications for using herbs and contraindications to assure safe use
- Herbs based on storage, processing, purity and government regulations
- Appropriate herb and herbal related medicines for the management of specific disease conditions.
- The effect an herb has on *dhātu* (tissues) and *srota* (pathways)
- Different *anupānas* (adjuvants) to target different *doṣas* and *dhātus* (tissues).
- Basic FDA regulations that affect daily practice
 - (Example Section 201 (g)(1)(B) of the Federal Food, Drug, and Cosmetic Act (the Act) [21 U.S.C. § 321(g)(1)(B) states that herbs cannot make claims of support].
 - Herbs restricted by the FDA.

4.16.5 In-depth knowledge of the following herbs:

Saṁskṛta Name	Latin Name	Common Name
<i>Āmalakī</i>	<i>Emblica officinalis</i>	Indian gooseberry
<i>Anantamūla</i>	<i>Hemidesmus indicus</i>	Sariva, upalsari
<i>Arjuna</i>	<i>Terminalia arjuna</i>	
<i>Aśoka</i>	<i>Saraca indica</i>	
<i>Aśvagandha</i>	<i>Withania somnifera</i>	
<i>Balā</i>	<i>Sida cordifolia</i>	
<i>Bhṛṅgarāja</i>	<i>Eclipta alba</i>	

Saṁskṛta Name	Latin Name	Common Name
<i>Bhūmyāmalakī</i>	Phyllanthus amarus	Bhui-avala
<i>Bilva</i>	Aegle marmelos	Bael fruit
<i>Brahmī</i>	Bacopa monnieri, centella asiatica (active debate on this)	
<i>Citraka</i>	Plumbago zeylanica	
<i>Dāruharidrā*</i>	Berberis aristata	Daruhadalad
<i>Devadāru*</i>	Cedrus deodara	Deodar
<i>Dhānyaka</i>	Coriandrum sativum	Coriander
<i>Elā</i>	Elettaria cardamomum	Cardamom
<i>Eraṇḍa</i>	Ricinus communis	Castor oil
<i>Gokṣura</i>	Tribulus terrestris	Gokharu
<i>Gudūcī</i>	Tinospora cordifolia	Gulvel, amrita
<i>Guggulu</i>	Commiphora mukul	Guggul
<i>Haridrā</i>	Curcuma longa	Turmeric
<i>Harītakī</i>	Terminalia chebula	Chebolic myrobalan
<i>Hiṅgu</i>	Ferula assa-foetida	Asafoetida
<i>Jaṭāmāmsī*</i>	Nardostachys jatamansi	Indian spikenard
<i>Jātīphalā</i>	Myristica fragrans	Nutmeg
<i>Jīraka</i>	Cuminum cyminum	Cumin
<i>Jyotiṣmatī*</i>	Celastrus paniculatus	
<i>Kalamegha*</i>	Andrographis paniculata	King of bitters
<i>Kapikacchu</i>	Mucuna pruriens	
<i>Kaṭukī*</i>	Picrorhiza kurroa	Kutki
<i>Kirātatikta*</i>	Swertia chirata	Kade chirait
<i>Kumārī</i>	Aloe barbadensis	Aloe
<i>Kuṭaja</i>	Holarrhena antidysenterica	Kuda
<i>Laśuna</i>	Allium sativum	Garlic
<i>Lavaṅga</i>	Syzygium aromaticum	Clove
<i>Lodhra*</i>	Symplocos racemosa	

Saṁskṛta Name	Latin Name	Common Name
<i>Maṇḍūkapaṛṇī</i>	Centella asiatica	Gotu kola
<i>Mañjiṣṭhā</i>	Rubia cordifolia	
<i>Marica</i>	Piper nigrum	Black Pepper
<i>Meṣaśṛṅgī</i>	Gymnema sylvestre	Gurmar, shardunika
<i>Methikā</i>	Trigonella foenum-graeceum	Fenugreek
<i>Miśreya</i>	Foeniculum vulgare	Fennel
<i>Mustā</i>	Cyperus rotundus	Nagarmotha
<i>Nimba</i>	Azadirachta indica	Neem
<i>Padmaka</i>	Nelumbo nucifera	Lotus
<i>Pippali</i>	Piper longum	Long Pepper
<i>Punarnavā</i>	Boerhaavia diffusa	
<i>Rājikā</i>	Brassica juncea	Mustard seeds
<i>Rakta candana</i>	Pterocarpus santalinus	Red sandalwood
<i>Raktapuṣpi</i>	Hibiscus rosa	Hibiscus
<i>Rāsna</i>	Alpina officinarum	Galangal
<i>Saindhava lavaṇa</i>		Mineral salt
<i>Śallakī</i>	Boswellia serrata	
<i>Śaṅkhaṣuṣpī</i>	Evolvulus alsinoides	
<i>Sat Isabgol</i>	Plantago psyllium	Psyllium husks
<i>Śatāvārī</i>	Asparagus racemosus	Asparagus root
<i>Śilājitu</i>	Asphaltum	Mineral pitch
<i>Śuṅṭhī</i>	Zingiber officinale	Ginger
<i>Svarṇapatrī</i>	Senna alexandrina	Senna
<i>Tagara</i>	Valeriana wallichii	Valerian
<i>Tarunī</i>	Rosa centifolia	Red rose petals
<i>Tavakṣīrī</i>	Maranta arundinacea	Arrowroot
<i>Tila</i>	Sesamum indicum	Sesame
<i>Tulasī</i>	Ocimum sanctum	Holy basil

Saṁskṛta Name	Latin Name	Common Name
<i>Tvak</i>	Cinnamomum cassia	Cinnamon
<i>Uśīra</i>	Vetiveria zizanioides	Vetiver
<i>Vacā</i>	Acorus calamus	Sweet flag
<i>Vasaka</i>	Adhatoda vasica	Malabar nut
<i>Vibhītakī</i>	Terminalia belerica	Beleric
<i>Viḍaṅga</i>	Embelia ribes	
<i>Vidārī kanda</i>	Ipomoea digitata	Indian ginseng
<i>Yaṣṭi madhu</i>	Glycyrrhiza glabra	Licorice root
<i>Yavānī</i>	Carum copticum	Ajwain or wild celery

*Herbs are difficult to obtain due to being protected species or endangered.

4.16.6 In-depth knowledge of various preparations of herbs and how they are made including: infusions, decoctions (kaṣāya), fresh juice (svarasa), jam (avalehya/lehyam), medicated ghee (ghṛta), powders (cūrṇa), medicated oils (taila), pills (vaṭi), moist bolus (kalka), and fermented preparations (āsava/ariṣṭa), including the following specific compound formulations:

Powders (Cūrṇa)	Tablets (Vaṭi)	Decoctions (Kashaya)	Oil (Taila)	Ghee (Ghṛta)	Fermented Preparations (Āsava/Ariṣṭa)	Jams (Lehyam)
Avipattikara Bh.Ra.53/25-29	Candraprabhā Vaṭi Sha.Sa. Madh. 7/40-49	Dashamulam Bh.Ra. 15/	Aṇu Taila A.H.Su. 20/37 -39	Triphala Ghṛta Bh.Pra. Madh. 70/52- 53	Abhaya Ariṣṭa Bh.Ra. 9/17 5- 180	Cyavanprāśa Sha. Sa. Madh. 8/10-21
Hiṅgvāṣṭaka A.H.Chi.14/35	Citrakādi Vaṭi Sha.Sa. Madh. 6/108- 111	Amrutotharam/Nagaradi Kashaya S.Y.Kashaya yoga	Bhṛṅgarāja/ Mahābhṛṅgarāja Taila Bh. Ra. 64/27 1-272	Indukantham S.Y.Ghrita yoga	Aśoka Ariṣṭa Bh.Ra. 69/1 14- 116	Gudardraka/Ardra Rasayana S.Y. Guda prayoga
Sitopalādi Sha.Sa.Madh. 6/134-137	Gokṣurādi Guggulu Sha.Sa.Madh. 7/84-87	Dasamoolakatuthrayadi S.Y. Kashaya Yoga	Brāhmī Taila A.F.I	Mahatiktaka Ghṛta S.Y. Ghrita yoga	Aśvagandha Ariṣṭa Bh.Ra. 21/1 5-21	Agastya Rasayanam C.S.Chi. 17/57- 62
Tālīsādi Sha.Sa.Madh. 6/130-134	Kaiṣora Guggulu Sha.Sa. Madh. 7/70-81	Guluchyadi A.H. Su.15/16	Mahāmaricyādi Taila Bh.Ra. 54/30 3-311	Sukumaram Ghrita S.Y. Ghrita yga	Daśamūla Ariṣṭa Sha.Sa. Mad h. 10/78-92	Narasimharasayana ras A.H. Utt.39/170- 172
Trikaṣṭu Sha.Sa.Madh. 6/12-13	Punarnavādi Guggulu Bh.Pra. Madh. 29/165- 169	Varanadi A.H. Su.15/21-22	Mahānārāyana T aila Bh.Ra. 26/34 3-354	Kalyanakam Ghrita A.H.Utt. 6/26- 28	Jirakarishṭa S.Y.Arishta yoga	Ashwagandhadi Lehya S.Y.Avaleha yoga
Triphala Sha.Sa.Madh. 6/9- 11	Yogarāja Guggulu Sha.Sa. Madh. 7/56-70	Gandharvahasthadi S.Y. .Kasa/30	Dhanwantaram Taila S.Y. Taila/1	Brahmi Ghritam Bh.Pra. Madh. 23/18	Amrutharishtam S.Y.Arishta yoga	Trivritadi Lehya S.Y.Lehya yoga
Panchakola Sha.Sa.Madh. 6/13-14	Dhanwantharam Gulika S.Y.Gudika yoga	Nimbadi Kashaya S.Y.Kashaya yoga	Kshirabala Taila A.H. Chi. 22/45 -46	Varanadi Ghritam S.Y.Ghrita yoga	Punarnavasava S.Y.Asava yoga	Dasamulaharitaki Lehya S.Y.Lehya yoga
Sudarshana Churna Bh. Ra. 5/445	Kankayana Gutika S.Y.Gutika yoga	Aragvadhadi Kashaya A.H.Su 15/17-18	Bala Taila A.H. Chi.21	Guggulutikthakam Ghritam S.Y.Ghrita yoga	Draksharishtam S.Y.Arishta yoga	Vilvadi Lehya S.Y.Lehya yoga
R Guggulupanc hapalam Churna S.Y. Churna yoga	Vilvadi Gutika A.H.Utt	Patoladi Kashaya A.H.Su 15/15	Chandanadi Taila S.Y. Taila yoga	Saraswata Ghritam S.Y.Ghrita yoga	Kutajarishtam S.Y.Arishta yoga	Satavari Gudam S.Y.Guda yoga S.Y.Gud
Rajanyadi Churna A.H.Utt	Manasamitra Vatakam S.Y.Gutika yoga	Dusparshakadi Kashaya S.Y.Kashaya yoga	Pinda Taila A.H. Chi. 22/22	Panchagavya Ghritam S.Y.Ghrita yoga	Khadirarishtam S.Y.Arishta yoga	Manibhadra Gudam S.Y.Guda yoga

Powders (Cūrṇa)	Tablets (Vaṭi)	Decoctions (Kashaya)	Oil (Taila)	Ghee (Ghṛta)	Fermented Preparations (Āsava/Ariṣṭa)	Jams (Lehyam)
Dadimashtaka Churna S.Y.Churna yoga		Drakshadi Kashaya S.Y.Kashaya yoga	Balawagandhadi Taila S.Y.Taila yoga	Vidaryadi Ghritam S.Y.Ghrita yoga	Mustarishtam S.Y.Arishta yoga	
Pushyanuga Churna S.Y.Churna yoga		Punarnavadi Kashaya S.Y.Kashaya yoga	Nalpamaradi taila S.Y.Taila yoga		Vasarishtam S.Y.Arishta yoga	
Vaiswanara Churna S.Y.Churna yoga		Prasarinyadi Kashaya S.Y.Kashaya yoga	Balahadhadi Taila S.Y.Taila yoga		Chandanasava S.Y.Asava yoga	
Saraswata Churna S.Y.Churna yoga		Balajirakadi Kashaya S.Y.Kashaya yoga	Chemparutyadi Taila S.Y.Taila yoga			
Hinguvachadi Churna S.Y.Churna yoga		Manjishtadi Kashaya S.Y.Kashaya yoga	Kottamchukkadi Taila S.Y.Taila yoga			
		Musalikhadiradi Kashaya S.Y.Kashaya yoga	Shacharadi Taila S.Y.Taila yoga			
		Rasonadi Kashaya S.Y.Kashaya yoga	Mahamasha Taila S.Y.Taila yoga			
		Rasnairandadi Kashaya S.Y.Kashaya yoga	Triphaladi Taila S.Y.Taila yoga			
		Vidaryadi Kashaya A.H.Su 15/9-10				
		Sahacharadi Kashaya S.Y.Kashaya yoga				

Note: Those marked with “*” are either not easily available in USA or cannot be used as it is an herb or mineral compound containing “heavy metal”. It is important to have knowledge of these products, but students would not be tested regarding the same.

Category 4.17 Jyotiṣa - Vedic Astrology

4.17.1 Familiarity with subject to refer patients to a Vedic or Medical Jyotiṣi (vedic astrology) for assessment and education on the general scope and value of Vedic or Medical Jyotiṣi (vedic astrology) at the appropriate time.

4.17.2 Familiarity with:

- What Vedic or Medical Jyotiṣi (vedic astrology) is
- What a Vedic or Medical Jyotiṣi (vedic astrology) does
- The scope of practice of Vedic or Medical Jyotiṣi (vedic astrology)
- How a Vedic or Medical Jyotiṣi (vedic astrology) can complement client care
- Therapeutic tools utilized by a Vedic or Medical Jyotiṣi (vedic astrology)

The doctor has knowledge of Vedic or Medical Jyotiṣi (vedic astrology) but its practice requires a separate certification.

Category 4.18 Vāstu Śāstra – Vedic Architecture

4.18.1 Familiarity with subject to refer patients to a doctor of Vāstu (vedic architecture) for assessment and education on the general scope and value of Vāstu (vedic architecture) at the appropriate time.

4.18.2 Familiarity with the following:

- What Vāstu (vedic architecture) is
- What a Vāstu (vedic architecture) doctor does
- The scope of practice of Vāstu śāstra (vedic architecture)
- How a Vāstu (vedic architecture) can complement client care
- Therapeutic tools utilized by a practitioner of Vāstu śāstra (vedic architecture)

The doctor has knowledge of Vāstu (vedic architecture), but its practice requires a separate certification.

Category 4.19 Yoga

4.19.1 Familiarity with subject to refer patients to a practitioner of Āyurveda and therapeutic yoga for assessment and education on the general scope and value of Āyurveda and therapeutic yoga.

4.19.2 Familiarity with the following:

- Āyurvedic and Medical Yoga Therapy
- What a practitioner of Āyurvedic and Medical Yoga Therapy does
- The scope of practice of Āyurvedic and Medical Yoga Therapy
- How an Āyurvedic and Medical Yoga Therapy can complement client care
- Therapeutic tools utilized by a practitioner of Āyurvedic Yoga Therapy and Medical Yoga Therapy

The doctor has knowledge of Āyurvedic Yoga Therapy/Medical Yoga Therapy, but its practice requires a separate certification.

Section 5: Categories of Cikitsā (Treatment or Therapies)

Category 5.1 In-depth knowledge of the categories of *cikitsā* (treatment), as listed below:

Ekavidha

1. *Nidāna parivarjana* (removing the cause)

Dvididha

1. *Santarpaṇa* and *apatarpaṇa* (strengthening and depleting)
2. *Śódhana* and *śamana* (purification and pacification)
3. *Śīta* and *uṣṇa* (cooling and heating)
4. *Urjaskara* (synonymous with *rasyana*, preventive treatment)
 - a. *Rasayana chikitsa* to build optimum *dhātus*, strong *agni* and immune system for long healthy life, increase strength and stamina, and sharpen memory.
 - b. *Vajikarana* to have strong vigor and vitality, and *shukra dhātu* to have healthy progeny.
5. Curative treatment
 - a. *Rogaprashamana chikitsa* – Palliative treatment by *dosha shamana*. Disease may recur if the cause is repeated.
 - b. *Apunarbhava* – Complete cure. Disease will not recur.
6. *Roga praśamana* (management of disease)
 - a. *Doshapratyanika*
 - b. *Vyadhipratyanika*
 - c. *Ubhayapratyanika*
 - d. *Apunarbhava* (permanently curative)
7. *Doṣa pratyānīka* (*dosha* specific treatment)
 - a. Use of therapies with opposite qualities of *doshas*, e.g. licorice (demulcent herb) to balance *vata* dryness; cooling herbs to balance heat quality of *pitta*
8. *Vyādhi pratyānīka* (disease specific treatment)
 - a. Astringent herbs (*patha* or *kutaja*) for diarrhea; turmeric in *prameha*
9. *Ubhaya pratyānīka* (*dosha* and disease specific treatment)
 - a. Use of dashamul decoction for *vataja* swelling (*shotha*) balances *vata* and reduces swelling

Trividha

1. *Sattvavajaya* (mind therapy or psychotherapy)
 - a. Sattvic mental lifestyle, mind calming herbs, etc.
2. *Yukti vyapashray* (logical treatment)
 - a. Treat the disease by knowing the samprapti: dosha, dhātu, srotas involvement, state of agni, underlying nidān, etc.
3. *Daiva vyapashraya* (spiritual healing/faith healing)
 - a. Japa, Mantra
 - b. Tantra therapy
 - c. Gem therapy
 - d. Rituals

Caturvidha

1. Śodhana
2. Śamana
3. Āhāra
4. Ācāra

Pañcavidha

1. Vamana
2. Virecana
3. Basti
4. Nasya
5. Raktamokṣaṇa

Saḍvidha

1. Bṛmhāṇa (building dhātus or tonifying)
2. Laṅghana (lightening/depleting excess dhātus)
3. Snehana (Oiling or moistening)
4. Rūkṣaṇa (drying)
5. Stambhana (stopping outflow)
6. Svedana (Sweating)

Saptavidha

1. Dīpana (strengthen agni)
2. Pācana (digest ama)
3. *Kṣudhā nigraha* (fasting, limit food intake)
4. *Tṛṣā nigraha* (limit liquids)
5. *Vyāyāma* (exercise)
6. *Ātapa sevana* (being in the sun, warm weather)
7. *Māruta sevana* (being in a cool breeze)

Section 6: Western Medical Approaches

Category 6.1 Demonstrated ability and knowledge to refer a patient for assessment and possible treatment by a medical practitioner. With basic knowledge of western medicine, the

doctor understands when seemingly mild symptoms could indicate serious underlying disease and which disease to suspect based on the overall picture (e.g. constipation pointing to colon cancer, or to hypothyroid or to onset of Parkinson disease). Although an Ayurvedic Doctor is not permitted to diagnose a Western disease entity, they must be able to suspect such diseases and refer out appropriately.

Category 6.2 Demonstrated ability and knowledge to make the following recommendations:

- A referral to an appropriate Western Medicine Practitioner at the appropriate time.
- Write an effective referral letter
- Be aware of potential life-threatening diagnoses that need to be excluded and know what tests are required to exclude these diagnoses and which specialty to use for referral

Category 6.3 Knowledge of:

- The scope of practice of a medical practitioner, including which type of specialist is appropriate for the client's condition.
- Indications that require a referral
- How a Western medical practitioner can complement the care being provided by the Āyurvedic doctor

Section 7: Medical Ethics

The Ayurvedic professional has the knowledge and skills to adhere to the highest ethical standards consistent with Ayurvedic spiritual principles and societal norms.

Category 7.1 The doctor has familiarity with the following areas related to medical ethics:

a. HIPAA "Health Insurance Portability and Accountability Act "Guidelines-

- HIPAA Guidelines were created to regulate how patient's medical records or Personal Health Information (PHI) can be kept safe through privacy and security measures.
- HIPAA rules outline national standards for the privacy and availability of PHI between practitioners, doctors, medical centers, health insurance companies and other health providers.
- HIPAA Guidelines respect the privacy and dignity of the patient according to HIPAA requirements.

b. Malpractice Insurance- Although at this time the Ayurvedic professional is not required to maintain malpractice per state or federal law, all health professionals should be aware that:

- If a health care provider causes injury to a patient through either negligent actions, or a violation of the recognized standard of care in that profession, it is defined as “Medical Malpractice.”
- Malpractice insurance policies help protect healthcare professionals in the event of malpractice claims, and to cover the legal fees associated with claims if they arise.
- It is highly recommended that the Ayurveda Professional carry professional malpractice insurance.

c. Health Freedom/Safe Harbor Legislation - Each Ayurveda professional should be familiar with the laws applicable to his/her practice. Several states have enacted laws which are commonly referred to as “Health Freedom” or “Safe Harbor” Laws. These laws provide a way for unlicensed complementary and alternative practitioners to provide certain services in their state without risk of being prosecuted for the unlicensed practice of medicine.

For more information regarding health freedom laws in general, and links to the laws enacted in each state, visit <https://nationalhealthfreedom.org/>

Each Ayurveda professional is expected to operate legally in the state(s) in which (s)he practices. If the Ayurveda professional is a licensed health care practitioner, (s)he is expected to practice in a manner in compliance with his or her license(s). If the Ayurveda professional is not a licensed health care practitioner, (s)he is nonetheless expected to practice legally in each state in which (s)he practices. If the unlicensed Ayurveda professional is practicing in a health freedom state, the professional should be familiar with and follow the health freedom law of that state. Any Ayurveda professional who has questions or concerns about how to practice legally in his/her state should seek the advice of legal counsel.

d. Charting- The Ayurvedic professional should understand the HIPAA Requirements for medical records:

- A Medical Record, or “chart,” is a collection of patient’s health information gathered by an authorized healthcare provider.
- Medical charts can be in the form of paper or electronic format. HIPAA (Health Insurance Portability and Accountability Act) requires medical records to be kept in a locked, secure location.
- Records must be maintained for a specified period of time according to state regulations.
- Paper records should be stored in organized, locked areas with no access to unauthorized personnel.
- Electronic medical records should be stored in secure, password protected software that allow for proper organization.
- The Ayurveda Professional shall maintain patient privacy and confidentiality, in full compliance with the health care privacy laws of the United States. This duty of privacy and confidentiality extends to patient medical records.

- The Ayurvedic professional who creates, maintains, preserves, stores, abandons, destroys, or disposes of medical records to do so in a manner that preserves the confidentiality of the information contained within those records.
- The Ayurveda Professional is expected to understand and follow the State laws concerning the release of patient health records.

e. Informed Consent- The Ayurvedic professional should provide documentation of informed consent to all clients. This is an ethical and legal obligation and is the process in which a health care providers educate about the risks, benefits, and alternatives of a given procedure or intervention. <https://www.ncbi.nlm.nih.gov/books/NBK430827/> Patients have the right to receive information and to ask questions about recommended treatments to be able to make informed decisions about their care.

Principles of informed consent- The Ayurvedic professional should know about:

- Disclosure of Information, nature of procedure
- Competency of the patient (or surrogate)
- The risks and benefits of the procedure.
- Reasonable alternative
- Risk and benefits of
- Voluntary nature of the decision and assessment of the patient's understanding of the above elements.

Category 7.2 Practical Medical Ethics

Knowledge of practical medical ethics including case review, group work and additional training in practical case-based discussion which may be facilitated by:

- Faculty and students participate in case-based discussion. This can include live case work shared between faculty and students.
- Group work involving students emphasizing various components of medical ethics.
- Medical ethics should be included throughout the Ayurvedic curriculum especially with client care management.

Category 7.3 End of Life Care

Knowledge of the definition of end-of-life care, and understand available options including hospice care, palliative care, home-based care, long-term care facilities, and hospital-based care. The Ayurvedic professional should understand that advanced care planning is critical to ensure that both caregivers and health care providers can understand their client's wishes and provide all the options for someone who needs to make a choice regarding end-of-life care.

Category 7.4 Patient Rights

Knowledge of the concept of patient rights as they currently exist. While differences exist from state to state, some are guaranteed by federal law, such as the right to get a copy of your

medical records and the right to keep them private. Medical ethics competency should include familiarity about certain states which have their own versions of a bill of rights for patients. Additionally, a patient's rights and responsibilities under the Affordable Care Act are found on the HealthCare.gov website: <https://www.healthcare.gov/health-care-law-protections/rights-and-protections/>

Examples of Patient Rights:

- The Right to Appropriate Medical Care and Humane Treatment
- The Right to Informed Consent
- The Right to Privacy and Confidentiality
- The Right to Information
- The Right to choose a Health Care Provider and Facility
- The Right to Self-Determination
- The Right to Religious Belief
- The Right to Medical Records
- The Right to Refuse Treatment
- The Right to make decision about End-of-Life Care

Category 7.5 Professional Boundaries

7.5.1 The Ayurvedic professional is familiar with the NAMA Code of Ethics.

7.5.2 The Ayurvedic professional should know about in the Doctor-Patient/Client Relationship providing a framework for healthy relationships between healthcare providers and clients. These include physical and emotional limits that protect the client's vulnerability.

Section 8: Business Skills

Category 8.1 Familiarity with the following areas related to business skills:

a. Strategic Planning: The Āyurvedic professional can create an overarching business plan to include a mission statement consistent with Āyurvedic principles. The Āyurvedic professional can apply the principles of the NAMA Code of Ethics in the business and professional environment.

b. Leadership: The Āyurvedic professional will demonstrate leadership competence to support the honorable traditions of Āyurveda.

c. Financial: The Āyurvedic professional has developed the financial skills to run their practice ethically and accurately.

d. Accounting: The Āyurvedic professional has developed the skills to understand the accounting needs of the business and oversee or hire appropriate professionals as necessary to ensure accurate financial reporting.

e. Management Practices: The Āyurvedic professional will be familiar with the art of management, marketing, and advertising as a key component of any organization.

f. Legal: As a foundation of any ethical business, the Āyurvedic professional will know the importance of being compliant with all current legal requirements related to the practice.

END OF EDUCATIONAL COMPETENCIES

Definitions of levels of educational competency:

The following terms are used to describe the level of educational knowledge required for each competency category.

Familiarity: introductory knowledge of a subject sufficient to bring awareness to the existence and central essence of that subject and for the student to know when further knowledge is required for the practice of Ayurveda.

Basic Knowledge: has acquired an overview of the broad principles of a subject, including a general awareness of its relevance to and/or potential use in the practice of Ayurveda.

Knowledge: an understanding of all aspects of a subject and its specific applications to the practice of Ayurveda.

In-Depth Knowledge: through study and practicum, has acquired a confident, in-depth knowledge of a subject and its multiple applications as well as its potential limitations in the practice of Ayurveda.

Demonstrated Ability: shows the ability to undertake particular tasks and exhibits the application of knowledge specific to the practice of Ayurveda.