

## Unit 2 — Sāmānya Cikitsā & Kriyākalpa (Netra)

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#### A) Sāmānya Cikitsā of Netraroga

##### 1) Therapeutic framework

- **Nidāna-parivarjana:** absolute first step—avoid smoke/dust (dhūma/rajaḥ), late nights, excessive near-work (sūkṣma-darśana), glare/heat alternation, and irritant cosmetics.
- **Doṣa-tantra:** assess **pradhāna doṣa** and **āma status**.
  - **Vātaja:** rukṣa, śūla, sandhi-kṣobha → *snigdha śamana*, mṛdu svedana, ghṛta-yoga, gentle aścyotana with warm sneha; tarpana later.
  - **Pittaja/Raktaja:** dāha, raga, kṣata-śotha → *śītala*, raktaprasādana, lekhana where needed, seka/aścyotana with cool dravyas; nasya/śiro-śītala measures; tarpana/putapāka only after acute phase calms.
  - **Kaphaja:** guru-staimitya, kapha-srāva → *rūkṣa dīpana-pācana*, warm seka/aścyotana, lekhana-anjana; avoid heavy sneha early.
- **Āma vs nirāma decision:**
  - **Sāma** eyes: sticky discharge, heaviness, photophobia; start with **dīpana-pācana**, rūkṣa seka/aścyotana; delay tarpana.
  - **Nirāma** eyes: clean tear film, settled pain; proceed to **snehana** procedures (tarpana, ropana putapāka) as indicated.
- **Śodhana when needed:** mṛdu virecana in pittaja/raktaja states; śirovirecana (nasya) and raktamokṣaṇa in select raktaja conditions; basti in chronic vātānubandha.
- **Rasāyana/poshana:** cakṣuṣya ghṛta (e.g., triphalā-ghṛta) orally when suitable; tarpaka support through diet (snehayukta, madhura-rasa) and padābhyaṅga/netrabhyaṅga.
- **Charyā (regimen):** avoid day sleep in kapha states; use dark glasses outdoors (anukūla deśa-kāla), controlled reading time, frequent blinking (nimesha-unmeṣa saumyatā).

**Exam mnemonic (SAFEST):** Sūtra (nidāna-parivarjana) → Ama check → Focus doṣa → Early local kriyā → Shodhana (if needed) → Tarpana/putapāka (later).

#### B) Enumeration of Kriyākalpa

Kriyākalpa = localized ocular therapeutics (bāhya-parimarjana) applied on/around the eye for targeted action.

Ācārya/Text	Enumerated procedures
Suśruta Saṃhitā, Uttara-tantra (Kriyākalpa Adhyāya)	5 — Tarpana, Putapāka, Seka (Pariseka), Aścyotana, Añjana
Vāgbhaṭa (Aṣṭāṅga Hṛdaya/Saṃgraha)	5 — same as Suśruta
Śārṅgadhara, Cakradatta, Yogaratnākara	7 — above + <b>Pindī</b> + <b>Vidalaka</b>
Caraka Saṃhitā (selected contexts)	3 — Bidālaka (Vidalaka), Aścyotana, Añjana

**For university answers:** write “Suśruta’s five” as the foundational list; add that later compendia include **Pindī** and **Vidalaka** → total **seven** widely taught today.

## C) Seka (Pariseka) — Therapeutic irrigation

**Paribhāṣā:** Continuous stream of medicated liquid over **closed** eyes (palpebral surface), at controlled temperature and height.

### Indications (typical):

- Acute **pittaja/raktaja abhishyanda** with dāha, raga, photophobia
- Foreign-body sensation without abrasion, environmental irritation
- As **pūrva-karma** before aścyotana/añjana

**Contra-indications:** open corneal ulcer, recent ocular surgery, severe vātānubandha pain (prefer warm aścyotana first), extreme photophobia where streaming worsens spasm.

### Dravya selection (doṣa-wise examples):

- **Pitta/Rakta:** cool infusions—**uśīra, candana, padma-patra, triphalā kwātha cooled**, dudh-mixed rose-water style **śītala** anupāna (classically advised).
- **Vāta/Kapha:** **warm** dashamūla-kṣīra-pāka, yaṣṭimadhu-kṣīra, pañcamūla-kwātha lukewarm.

### Technique (steps):

1. **Pūrva-karma:** assess doṣa/āma; wipe discharge; mild svedana in kapha/vāta.
2. **Pradhāna-karma:** patient supine; **closed lids**; irrigate from inner → outer canthus with a steady thin stream (height ~6–8 cm), **10-20 min or till symptomatic relief**.
3. **Paścāt-karma:** dab dry; protect from wind/glare; if pittaja, follow with **prasadana añjana** later in the day.

**Lakṣaṇa of proper Seka:** cooling/comfort, reduction of burning/tearing, easy opening of eyes.

**Improper:** too cold→ spasm; too hot/strong→ increased dāha/raga.

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## D) Pindī — Medicated poultice over closed lids

**Paribhāṣā:** Sterile gauze/cloth **poultice** soaked in medicated **swarasa/kwātha/sneha** and placed over **closed eyelids**.

**Indications:** subacute blepharo-conjunctival inflammation, meibomian dysfunction, post-irritative fatigue; also for **kapha-staimitya** with sticky discharge.

### Materials & dravyas:

- **Lekhana/Rūkṣa:** triphalā kwātha, daruharidrā, saindhava (for kapha-saṅga)
- **Śītala-prasadana:** uśīra-candana-padma-patra swarasa, chandana-taila (pitta/rakta)
- **Snigdha:** yaṣṭimadhu-kṣīra-pāka gāḍha for vātānubandha

**Method:** prepare warm/cool as per doṣa; soak folded pads; place 10–15 min; repeat 2–3 times/day.

**Paścāt:** light prasadana aścyotana or gentle añjana when nirāma.

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## E) Vidalaka (Bidālaka) — Pastous lepa on lids

**Paribhāṣā:** Thick **paste** of indicated drugs applied **externally** over eyelids (not entering the fornix), typically **1-2 mm** layer.

**Indications:** superficial **pittaja** inflammations with burning, mild swelling; eyestrain/cephalalgia linked to ocular surface irritation.

### Dravya choices:

- **Pitta/Rakta:** chandana, usīra, lodhra, maṇḍukaparnī, padma-patra; binders—ghṛta/kṣīra-paṣṭa for prasadana
- **Kapha:** saindhava, trikatu + lodhra in minimal medium (rūkṣa)
- **Vāta:** add a touch of ghṛta/tila-taila to avoid over-drying

**Application:** avoid ciliary margins; keep **15-30 min**; wash gently.

**Cautions:** do not use on **eczema/dermatitis**, infected chalazion, or when discharge is profuse (prefer Pindī/Seka).

## F) Aścyotana — Instillation of eye-drops

**Paribhāṣā:** Controlled **dropwise** instillation of medicated liquid **into the open eye**, typically **2-6 drops** per sitting.

### Indications:

- First-line for **sarvābhīṣyanda**, foreign-body sensation, early **timira** discomforts
- After Seka/Pindī to deliver active drug to cul-de-sac

### Types (vehicles):

- **Swarasa** (fresh juice), **kwāṭha** (decoction), **sneha** (taila/ghṛta), **kṣīra-pāka** (milk-processed), **madhu-yukta** (for lekhana/prasadana).
- **Doṣa logic:** pitta/rakta → cool swarasa/kwāṭha; kapha → lekhana/madhu-yukta; vāta → warm sneha/kṣīra-pāka.

### Technique pearls:

- Patient supine; **look up**; pull lower lid; instill without touching lashes; ask patient to blink gently; collect overflow.
- **Frequency:** 3-6×/day depending on acuity.
- **Avoid** very strong/tikṣṇa drops in acute raktāvasthā (risk of flare).

**Proper effect:** clarity, reduced pain/watering; **Improper:** increased burning, chemosis, spasm.

## G) Tarpana — Retention of medicated sneha over eyes

**Paribhāṣā:** Retaining **lukewarm sneha** (classically clarified butter/ghṛta) **over the open palpebral aperture** within a **māṣa-piṣṭi ring** built around the orbit.

### Classical indications:

- Dry, fatigued eyes; **lack of tears**; eyelash depilation/shrivelling; chronic vātānubandha pain; early optic fatigue syndromes.
- Per Suśruta, seat-/doṣa-based **retention times** are modulated (shorter for sandhi-gata, longer for dṛṣṭi/sarvagata).
- **Not to be done** during acute upadrava, cloudy/very hot or very cold days, or in anxious/fearful patients.

### Method outline:

1. **Pūrva-karma:** bowel-head lightness, āma clearance; ambient still air; protect from dust/sun.
2. **Ring: māṣa (black gram) paste** made into an even, firm circular wall around the eye; ensure leak-proofing.
3. **Sneha:** transparent layer of **ghṛta**, made **lukewarm**; pour till lash level; retain as per indication (gradations traditionally expressed in **akṣara-kāla** counts).
4. **Paschāt-karma:** drain via inner canthus; gentle **barley paste** pads; kapha-śamana **dhūma** if needed; protect from wind/glare; diet-regimen for 1-3 days.

**Satisfactory tarpana:** easy sleep, lightness, clarity, less secretion.

**Excess:** heaviness, sliminess, tearing, itching.

**Deficient:** dryness, photophobia, continuing cloudiness.

**Viva tip:** "Tarpana = snigdha-br̥hmaṇa kriyā; Putapāka = targeted extract (snehana/lekhana/ropana) after doṣa subsides."

## H) Putapāka — Cooked extract for the eye

**Paribhāṣā:** A **bolus** of flesh/herbs is wrapped in leaves, **clay-coated**, roasted (puṭa), then its **expressed extract** is applied/retained like tarpana.

**Three classical types & indications:**

1. **Snehana Putapāka:** for **extreme rukṣatā/parchedness** (vātaja); uses sneha-rich materials (māṃsa of ānūpa animals, vāsa/majjā/medas, madhura-varga, ghr̥ta/kṣīra).
2. **Lekhana Putapāka:** for **kapha-saṅcaya** or over-snehanatā; includes lekhana dravyas—lodhra/triphala + śārikha-bhasma/saindhava etc.
3. **Ropāṇa Putapāka:** for **healing** ulcers/defects after doṣa subsides—jangala māṃsa cooked with stanya, madhu, ghr̥ta, tikta-varga; enhances **vāta-pitta-rakta** normalization and **ropana**.

**Timing:** usually **after tarpana** and after acute doṣa subsidence; apply 1-3 consecutive days per need.

**Doṣ & antidotes:** too hot/too tīkṣṇa → burning/redness; too cold/mild → ineffective; correct with nasya/dhūma/anjana per doṣa.

## I) Añjana — Collyrium applications

**Kinds (therapeutic intent):**

1. **Lekhana Añjana** — scraping/decongesting (kapha-saṅga, mala-saṅcaya)
2. **Prasādana Añjana** — soothing/tonic (pitta/rakta pradhāna, fatigue)
3. **Ropāṇa Añjana** — healing (after ulcers/erosions begin to settle)
4. **Rasakriyā Añjana** — concentrated decoction reduced to thick extract (often counted under above intents)

**Indications:** kapha-mala on lids, chronic mucus strands, **post-putapāka/tarpana** cleanup, prasadana at night.

**Method (śālākā-prayoga):**

- Use appropriate **añjana-varti** (size ≈ kalāya pulse).
- Draw lower lid diagonally; apply from **kanīnika → apāṅga** and back on **inner lid margin** (not thickly in corners).
- **Time:** generally **morning/evening/night** depending on doṣa and intended effect (lekhana often morning; prasādana at night).

**Contra-indications & cautions:** fever, intoxication, severe head disease, angry/grieving state, windy day, just after nasya or bath; in **insomnia**, strong añjana may worsen vision—prefer prasadana only.

**Proper effect:** lightness, whiteness, clarity, improved vision and no discharge; **Over-use:** deep discoloration, dryness, lid hardness—treat with santarpaṇa measures.

## Putting it together: site-doṣa-state → procedure

State	Pitta/Rakta-pradhāna	Vāta-pradhāna	Kapha-pradhāna
<b>Acute (sāma)</b>	<b>Seka</b> (cool), <b>Aścyotana</b> (śītala swarasa/kwāthā)	<b>Aścyotana</b> (warm sneha), mild <b>Seka</b> (warm)	<b>Seka/Aścyotana</b> (rūkṣa, madhu-yukta)
<b>Subacute</b>	<b>Pindī, Vidalaka</b> (śītala) → later prasadana <b>Añjana</b>	<b>Pindī</b> (snigdha), tarpana when nirāma signs appear	<b>Pindī, Lekhana Añjana</b>
<b>Chronic/Nirāma</b>	<b>Tarpana, Ropāṇa Putapāka, Prasādana Añjana</b>	<b>Tarpana, Snehana Putapāka</b>	<b>Lekhana Putapāka, Lekhana Añjana</b>

## Assessment

### Long Essays (10 marks; answer 1)

1. Define **Kriyākalpa** and describe **Suśruta's five** with indications, contraindications, steps, and signs of proper/improper application.
2. Write **Sāmānya Cikitsā** of netraroga. Emphasize āma-nirāma assessment, doṣa-wise plan, and sequencing of **Seka → Aścyotana → Añjana → Tarpana/Putapāka**.

### Short Essays (5 marks; answer 3)

1. **Tarpana**: indications, method, and complication management.
2. **Putapāka**: classify into **Snehana-Lekhana-Ropāṇa** with examples.
3. **Añjana**: lekhana vs prasādana vs ropāṇa—times, techniques, and precautions.
4. **Pindī vs Vidalaka**: definitions, differences, and suitable clinical snapshots.

### Short Notes (3 marks; answer 4)

- Pariseka (Seka): temperature & stream dynamics
- Rasakriyā añjana (preparation & use)
- Doṣa-wise aścyotana vehicles
- Paścāt-karma after tarpana/putapāka
- When **not** to do Kriyākalpa

### MCQs (1 mark × 5)

1. **Foundational kriyākalpas in Suśruta** are:
  - 3
  - 5**
  - 6
  - 7
2. **Closed-eye irrigation** refers to:
  - Aścyotana
  - Seka**
  - Añjana
  - Tarpana
3. **Māṣa-piṣṭi ring** is essential for:
  - Pindī
  - Vidalaka
  - Tarpana**
  - Aścyotana
4. **Lekhana putapāka** is best in:
  - Raktaja dāha
  - Vātaja śūla
  - Kapha-sañcaya**
  - Tear deficiency
5. **Prasādana añjana** is usually preferred at:
  - Morning
  - Mid-day
  - Night**
  - Any time

**Answer key:** 1-b, 2-b, 3-c, 4-c, 5-c.

## References (cite these in your answers)

### Classical



- **Suśruta Saṃhitā, Uttara-tantra**, *Kriyākalpa Adhyāya* (Chapter on “Preparations and medicinal measures for ocular affections in general”): Tarpana, Putapāka (types, indications, retention logic, proper vs improper signs), Aścyotana/Añjana guidelines.
- **Aṣṭāṅga Hṛdaya, Sūtrasthāna**: Aścyotana-Añjana-vidhi *Adhyāya* and *Tarpana-Putapāka-vidhi Adhyāya*—vehicle selection, timing, and procedural precautions.
- **Śārṅgadhara Saṃhitā** (Madhyama-khaṇḍa) and **Cakradatta** (Netraroga prakaraṇa): inclusion and details of **Pindī** and **Vidalaka**.
- **Yogaratnākara**, *Netraroga Cikitsā*: seven kriyākalpas and dravya choices.

#### Modern/Standard Texts

- Sreedhar Śālākya Tantra (Part-1); K.S. Dhiman Śālākya Kriyākalpa Vijñāna; Shiv Nath Khanna Śālākya Tantra—procedural standardization, doṣa-wise drug choices, safety.

#### Quick 60-second Review

- **Suśruta's five**: Tarpana, Putapāka, Seka, Aścyotana, Añjana.
- **Later seven**: + **Pindī, Vidalaka**.
- **Sequence rule**: sāma → **Seka/Aścyotana**; nirāma → **Sneha-based (Tarpana, Ropāṇa Putapāka, Prasādana Añjana)**.
- **Tarpana hallmarks**: māṣa-piṣṭi ring, lukewarm ghṛta, akṣara-kāla-based retention; clear signs of proper/excessive/deficient application.
- **Putapāka triad**: **Snehana / Lekhana / Ropāṇa**—choose by dryness-kapha-ulcer status.
- **Añjana safety**: avoid in fever, windy day, just after nasya/bath; choose lekhana vs prasādana judiciously.