



ALL INDIA WOMEN'S CONFERENCE

Proudly Presents



**TRADITIONAL KNOWLEDGE:
HERITAGE OF HEALING
AND WELL-BEING**

A GUIDE FOR SUSTAINABLE LIVING

CONTRIBUTIONS AND ACKNOWLEDGEMENTS

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IMPORTANT DISCLAIMER

This document is a compilation of **home-based, traditional knowledge and practices** that have been **tried and tested** by various AIWC branches and community members across India.

This document is for **informational and educational purposes only**.

Important Notices

- **Scientific Evidence:** Not all remedies and practices described in this publication have been scientifically validated or clinically proven by modern medical standards.
- **Traditional Knowledge:** These are based on generations of traditional use, oral transmission of knowledge, and community experience.
- **Personal Responsibility:** The use of any remedy, practice, or information contained in this document is at **your own risk**.
- **Medical Consultation:** For serious health conditions, chronic illnesses, or in case of emergency, please consult qualified medical practitioners.
- **Allergies & Contraindications:** Individuals with known allergies, those on medications, pregnant women, nursing mothers, and children should seek professional medical advice before using any herbal remedy.
- **Dosage:** While traditional dosages are provided, individual tolerance may vary. Start with small quantities and monitor your response.
- **Quality & Sourcing:** Ensure all herbs and ingredients are sourced from reliable, clean sources to avoid contamination.

Introduction

This comprehensive compendium of Traditional Knowledge and Practices represents the collective wisdom and tireless dedication of AIWC branches across India, meticulously compiled under the guidance of the distinguished Compilation Committee.

We extend our heartfelt gratitude to:

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Vision and Mission

This compilation aligns with AIWC's commitment to:

- **Women's Health and Well-being:** Providing safe, natural alternatives for health management
- **Sustainability:** Promoting eco-friendly and organic practices
- **Community Development:** Supporting rural and urban communities through traditional knowledge
- **Education:** Making knowledge accessible to all
- **Cultural Preservation:** Honoring and maintaining indigenous knowledge systems
- **Environmental Stewardship:** Contributing to environmental protection and climate change mitigation

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1. HEALTH: DIGESTIVE & SYSTEMIC WELLNESS

1.1 Digestive Health and Gastrointestinal Remedies

1.1.1 Rice and Spice Remedy for Nausea and Stomach Discomfort

Source of Knowledge: Passed down through generations in the family

Description & Benefits:

This traditional remedy treats nausea and various stomach discomforts using easily available kitchen ingredients. Rice provides a light base that is easy to digest, while spices aid in digestion and absorption of nutrients.

Detailed Recipe & Procedure:

Ingredients:

- 1 tablespoon of boiled rice
- 1 teaspoon of jeera (cumin seeds)
- A pinch of ajwain (carom seeds)
- A handful of fresh curry patha leaves (well washed and cleaned)
- Water (approximately 2 glasses)

Preparation Steps:

1. Heat a pan over medium flame.
2. Add the boiled rice, jeera, ajwain, and curry patha leaves.
3. Fry all ingredients together for 2-3 minutes until fragrant.
4. Add 2 glasses of water to the mixture.
5. Bring to a boil and continue boiling.
6. Reduce the liquid until approximately 1 glass remains.
7. Remove from heat and allow to cool.
8. Drink while warm or at room temperature.

Usage: Once or twice daily, preferably in the morning or as needed.

Benefits:

- Relief from nausea and stomach discomfort
- Improved digestion
- Soothing effect on inflamed digestive tract
- Gentle on the stomach

Precautions: Not suitable for those with allergies to any of the ingredients.

1.1.2 Rock Salt Remedy for Jackfruit-Induced Bloating

Source of Knowledge: Grandma's remedy, traditional household knowledge

Description & Benefits:

Jackfruit, though nutritious, can cause bloating due to its density and high fiber content. This simple rock salt remedy provides quick relief.

Procedure:

- Take one crystal of common salt (rock salt/sendha namak).
- Consume it when experiencing bloating after eating jackfruit.
- Effects are usually felt within 15-30 minutes.

Mechanism:

Rock salt aids in digestive secretion and helps balance digestive enzymes, providing quick relief from bloating and gas.

Benefits:

- Immediate relief from stomach bloating
- Prevention of gas formation
- Aids in faster digestion of heavy foods

1.1.3 Onion Juice Remedy for Stomach Upsets

Source of Knowledge: Grandma's remedy, intergenerational family knowledge

Description & Benefits:

Onions contain sulfur compounds and quercetin with anti-inflammatory and digestive properties. The natural sugars in onions help soothe the digestive tract.

Detailed Recipe & Procedure:

Ingredients:

- 3-4 small onions (shallots are preferred)
- 1 teaspoon of sugar (or jaggery)

Preparation Steps:

1. Wash and peel the onions.
2. Chop them into small pieces.
3. Place in a clean bowl.
4. Sprinkle one teaspoon of sugar (or crushed jaggery) over the onions.
5. Keep aside for 20-30 minutes to allow juice to form naturally.
6. Squeeze the onions to extract juice.
7. Collect approximately 1 spoon (5-10 ml) of juice.

Administration:

- Consume the juice directly.
- Can be taken once or twice daily depending on the severity of symptoms.

Benefits:

- Effective treatment for stomach upsets
- Anti-inflammatory action on digestive tract
- Promotes healthy digestion
- Helps restore digestive balance

Taste: The sugar helps mask the strong onion taste, making it more palatable.

1.1.4 Orange, Cardamom and Misri for Fever in Children

Source of Knowledge: Grandma's remedy, time-tested family practice

Description & Benefits:

This remedy represents the principles of balancing warm and cooling foods. Orange provides cooling properties and vitamin C, while cardamom balances the cooling effect and aids digestion.

Detailed Recipe & Procedure:

Ingredients:

- 1 fresh orange (medium-sized)
- 2-3 small pieces of cardamom (elaichi)
- 1 teaspoon of powdered sugar candy (misri)
- Water

Preparation Steps:

1. Cut the orange and extract fresh juice (approximately 100-120 ml).
2. Heat water gently and add finely crushed cardamom pieces.
3. Simmer for 2-3 minutes to infuse the cardamom flavor.
4. Cool this water to room temperature.
5. Mix the orange juice with the cardamom water.
6. Add powdered misri and stir until dissolved.
7. The drink is ready to serve.

Administration:

- Give 60-90 ml (4-6 tablespoons) twice daily.
- Continue until fever subsides.
- Best given at room temperature or slightly warm.

Benefits:

- Safe and natural fever management in children
- Provides vitamin C for immune support
- Cardamom aids in digestion
- Sugar candy provides quick energy
- Non-toxic alternative to synthetic medicines

Age: Suitable for children above 6 months.

Note: The combination of cooling (orange) and warming (cardamom) properties creates balance within the body's thermal dynamics.

1.1.5 Turmeric and Black Pepper Buttermilk for Diarrhoea

Source of Knowledge: Grandma's remedy, proven household practice

Description & Benefits:

Turmeric's curcumin and black pepper's piperine have proven antimicrobial and anti-inflammatory properties. Buttermilk provides beneficial probiotics and electrolytes.

Detailed Recipe & Procedure:**Ingredients:**

- 1 cup of fresh buttermilk
- 1/2 teaspoon of turmeric powder (haldi)
- 1/4 teaspoon of black pepper powder (freshly ground, if possible)
- 5-6 fresh curry leaves
- A pinch of salt (optional)

Preparation Steps:

1. Pour buttermilk into a clean saucepan.
2. Heat over medium flame until it begins to steam (do not boil).
3. Add turmeric powder and black pepper powder.
4. Stir continuously and carefully for 3-4 minutes (it is crucial to stir to avoid curdling).
5. Once heated through, add fresh curry leaves.
6. Maintain heat for another 1-2 minutes.
7. Remove from heat immediately to prevent curdling.
8. Allow to cool for a few minutes before consuming.

Administration:

- Drink 1 cup, twice daily for 2-3 days.
- Best consumed warm, preferably in the morning and evening.

Benefits:

- Treatment for acute diarrhoea
- Antimicrobial and anti-inflammatory action
- Restores beneficial bacteria to the gut
- Provides hydration and electrolytes
- Strengthens digestive health

Important Precautions:

- Stir continuously to prevent curdling—curdled buttermilk reduces effectiveness.
- Do not overheat.
- Ensure buttermilk is fresh.

1.1.6 Multi-Herb Buttermilk for Vomiting, Stomach Upsets and Diarrhoea

Source of Knowledge: From own life experience, proven family remedy

Description & Benefits:

This comprehensive remedy combines multiple herbs with proven antimicrobial and soothing properties. The combination addresses vomiting, stomach upsets, and diarrhoea simultaneously.

Detailed Recipe & Procedure:

Ingredients:

- 1 cup of fresh buttermilk
- 6-8 curry patha leaves
- 1/2-inch piece of fresh ginger (finely grated)
- 3-4 black pepper corns (crushed)
- 2-3 cloves of garlic (minced)
- Small handful of wood sorrel (pulak in some regions)
- A pinch of salt (optional)

Preparation Steps:

1. Heat the buttermilk in a saucepan over low heat.
2. Add the ginger, garlic, and black pepper.
3. Stir gently and continuously.
4. Add curry patha leaves and wood sorrel.
5. Continue to heat gently for 4-5 minutes, stirring constantly.
6. Maintain low to medium heat—the goal is warming, not boiling.
7. Monitor closely to ensure the buttermilk does not curdle.

8. Remove from heat while still steaming.
9. Strain if preferred, though the herbs can be consumed with the drink.
10. Allow to cool slightly before serving.

Administration:

- Consume 1 cup twice daily.
- Continue for 3-5 days or until symptoms resolve.
- Best taken warm on an empty stomach or 2 hours after meals.

Benefits:

- Effective for vomiting and nausea
- Treats stomach upsets and cramping
- Addresses diarrhoea and dysentery
- Anti-inflammatory action on the entire digestive tract
- Restores digestive balance

Therapeutic Properties of Each Component:

- Curry patha: Anti-inflammatory, aids digestion
- Ginger: Carminative, aids digestive secretions, reduces inflammation
- Black pepper: Stimulates digestive enzymes, antimicrobial
- Garlic: Antimicrobial, antifungal
- Wood sorrel: Cooling, soothes digestive tract
- Buttermilk: Probiotic, provides electrolytes

Important Notes: This remedy should not be used by those with milk allergy or lactose intolerance.

1.1.7 Newspaper for Travel Sickness

Source: Dr. K. R. Raman Namboothiri (“1501 Ottamoolikal”)

Description & Benefits:

A simple, non-medicinal remedy that works through grounding and thermal regulation. Old newspapers serve as an insulator against vehicle heat and vibrations.

Procedure:

- Keep old newspaper (preferably 3-4 sheets thick) on the seat of the vehicle.
- Sit directly on the newspaper while traveling.
- The newspaper acts as an insulating layer.

Scientific Basis:

- Reduces direct transmission of vehicle vibrations to the body.

- Provides thermal insulation that stabilizes body temperature.
- Creates a comfortable, familiar surface that reduces psychological stress.

Benefits:

- Prevention of motion sickness
- Relief from existing travel sickness symptoms
- Non-toxic, cost-free remedy
- Suitable for all ages

1.1.8 Fenugreek Seeds and Buttermilk for Dysentery

Source of Knowledge: Own life experience, proven remedy

Description & Benefits:

Fenugreek seeds (methi) contain compounds that enhance digestive health and control loose motions. Buttermilk provides beneficial bacteria and soothing action.

Procedure:

- Take 1 teaspoon of fenugreek seeds.
- Mix with 1 cup of fresh buttermilk.
- Consume immediately.

Administration:

- Once or twice daily for 2-3 days.
- Best consumed on an empty stomach in the morning.

Benefits:

- Immediate control of dysentery symptoms
- Restores healthy intestinal flora
- Anti-inflammatory action
- Reduces loose motions

DIGESTIVE HEALTH (Additional Recipes)

- Jeera-Coriander-Fennel Tea: Equal parts jeera, dhania, saunf boiled in 2 cups water, reduced to 1 cup. Relieves gas, acidity after heavy meals.
- Asafoetida-Hot Water: Pinch of heeng in half glass hot water. Instant relief from trapped gas and stomach knots.
- Drumstick Leaf Soup: Fresh muringa leaves boiled with pinch salt, consumed warm. Clears digestive blockages, supports elimination.

1.2 Respiratory and Fever Remedies

1.2.1 Tulsi, Ginger, and Spice Remedy for High Fever

Source of Knowledge: Family knowledge passed down through generations, own life experience

Description & Benefits:

This comprehensive herbal remedy combines multiple fever-reducing herbs with immune-boosting properties. Tulsi is known as a powerful adaptogen, while ginger, black pepper, and garlic provide antimicrobial support.

Detailed Recipe & Procedure:

Ingredients:

- A handful of fresh Tulsi (holy basil) leaves
- 5 Panikoorka leaves (Indian borage or Cuban oregano)
- 1 small piece of fresh ginger (approximately 1/2 inch)
- 250 grams of jaggery
- 3 cloves of garlic
- 1 teaspoon of black pepper powder (or 10-12 crushed black pepper corns)
- Water (as needed for consistency)

Preparation Steps:

1. Wash all fresh herbs thoroughly and pat dry.
2. Grate or mince the ginger.
3. Crush the garlic cloves.
4. Crush the jaggery into smaller pieces for easier blending.
5. Add all ingredients to a mortar or blender.
6. Grind into a fine paste, adding minimal water to achieve a thick consistency.
7. Boil water in a saucepan (approximately 2 cups).
8. Add the herbal paste to the boiling water.
9. Reduce heat and simmer for 5 minutes, stirring occasionally.
10. Remove from heat and allow to cool.
11. Strain through a fine mesh if desired (optional).
12. Serve warm.

Administration:

- Drink 1 cup of the mixture.
- Can repeat every 4-6 hours depending on fever severity.
- Continue until fever comes down.

- Best consumed warm for maximum therapeutic effect.

Benefits:

- Effective reduction of high fever
- Immune system strengthening
- Antimicrobial action against infection
- Promotes sweating to cool the body naturally
- Anti-inflammatory properties

Therapeutic Properties:

- Tulsi: Immune modulation, fever reduction, antibacterial
- Panikoorkka: Expectorant, anti-inflammatory, antitussive
- Ginger: Warming, antimicrobial, anti-inflammatory
- Black pepper: Enhances herb absorption, antimicrobial
- Garlic: Potent antimicrobial and antifungal agent
- Jaggery: Provides energy, aids in nutrient absorption

Safety Notes: This remedy is safe for adults and older children. For very small children, consult a practitioner for dosage adjustment.

1.2.2 Aadalodakam (Malabar Nut) for Cough and Chest Congestion

Source of Knowledge: Family knowledge from generations, own life experience

Description & Benefits:

Aadalodakam (known as Malabar nut or Adusa in Hindi) is a powerful expectorant herb traditionally used across South India for respiratory ailments. It helps clear accumulated phlegm and reduces chest congestion.

Detailed Procedure:

Ingredients:

- Leaves of Aadalodakam (*Justicia adhatoda*) plant
- A pinch of cumin seeds (jeera)
- A small amount of Misri (powdered rock candy or regular powdered sugar)

Preparation Steps:

1. Collect fresh Aadalodakam leaves and wash thoroughly.
2. Dry the leaves completely (sun-dried or air-dried).
3. Powder the dried leaves finely using a mortar and pestle.
4. Crush cumin seeds lightly.

5. Mix the Aadalodakam powder with cumin powder.
6. Add a small amount of Misri powder.
7. Store in an airtight container.

Administration:

- Take 1/2 teaspoon of the powder mixture.
- Three to four times daily.
- Best consumed with warm water or honey.
- Do not exceed 4 doses per day.

Taste: Bitter, hence Misri is added to improve palatability.

Benefits:

- Effective expectorant for cough
- Clears chest congestion
- Reduces sputum production
- Promotes easier breathing
- Suitable for dry and wet coughs
- Strengthens respiratory function

Duration: Continue for 7-10 days or until cough resolves completely.

Contraindications: Those with known allergies to the plant should avoid. Not recommended during pregnancy without practitioner consultation.

1.2.5 Panikoorka (Indian Borage) for Respiratory Ailments

Source of Knowledge: Oral traditions and customary practices in Kerala households

Description & Benefits:

Panikoorka (*Plectranthus amboinicus*), also known as Indian Borage, is widely used in South India for treating respiratory conditions. It acts as a natural expectorant with anti-inflammatory properties.

Therapeutic Uses:

1. Respiratory Ailments:
 - Acts as natural expectorant.
 - Clears congestion.
 - Relieves persistent cough.
 - Treats respiratory infections.
2. Skin Conditions:
 - Anti-inflammatory action.

- Promotes wound healing.
 - Reduces skin irritation.
3. Fever and Sore Throat:

- Reduces fever.
- Soothes sore throat.
- Relieves inflammation.

Preparation Method:

Steam Inhalation:

- Collect fresh Panikoorka leaves.
- Boil water with crushed leaves (approximately 10-15 leaves per liter).
- Create a steam bath by placing the pot in a covered space.
- Inhale steam for 10-15 minutes, 2-3 times daily.
- Helps clear nasal passages and chest congestion.

Herbal Tea:

- Crush 4-5 fresh leaves.
- Steep in hot water for 5 minutes.
- Drink warm, once or twice daily.

Direct Application:

- Crush fresh leaves and apply to affected areas of skin.
- Cover with clean cloth for 15-20 minutes.

Benefits:

- Natural expectorant effect.
- Anti-inflammatory on respiratory tissues.
- Antimicrobial action.
- Reduces symptoms of fever, sore throat, and nasal congestion.
- Non-toxic for regular use.

Duration: Continue for 5-7 days or until symptoms resolve.

1.2.3 Shatavari: The Queen of Herbs for Women's Health

Source of Knowledge: Ayurvedic tradition, scientific research (Pandey et al., 2018)

Description & Benefits:

Shatavari (*Asparagus racemosus*) is known as the "Queen of Herbs" in Ayurveda. Traditionally used to enhance lactation in breastfeeding mothers, it also improves female reproductive health and alleviates PCOS symptoms.

Traditional Uses:

1. For Enhanced Lactation:
 - Consume as a decoction: 1/2 teaspoon of dried root powder mixed with warm milk.
 - Daily consumption supports milk production and quality.
 - Duration: Throughout breastfeeding period.
2. For Female Reproductive Health:
 - Strengthens uterine tissues.
 - Regulates menstrual cycles.
 - Reduces cramping and pain.
 - Daily dose: 1/2-1 teaspoon in warm milk or water.
3. For PCOS Management:
 - Helps regulate hormonal balance.
 - Reduces inflammation.
 - Supports ovarian health.
 - Duration: Minimum 3 months for visible results.

Composition & Properties:

- High in saponins with hormone-balancing properties.
- Rich in phytochemicals that support reproductive function.
- Anti-inflammatory and antioxidant properties.
- Promotes tissue regeneration.

Dosage:

- General wellness: 1/4-1/2 teaspoon daily.
- Therapeutic purposes: 1/2-1 teaspoon twice daily.
- Always consume with warm milk or water.

Precautions:

- May cause mild digestive adjustments initially.
- Not recommended during heavy menstrual bleeding (consult practitioner).
- Those with allergies to Asparagus family should avoid.

1.2.4 Moringa: The Miracle Tree

Source of Knowledge: Ayurvedic and modern scientific research (Cadman, 2024)

Description & Benefits:

Moringa oleifera is valued for its powerful anti-inflammatory and antioxidant properties. It is

used to address multiple health conditions and is increasingly recognized for its nutritional density.

Therapeutic Applications:

1. Inflammation and Swelling Reduction:
 - Reduces inflammatory responses in the body.
 - Helps reduce joint swelling and pain.
 - Supports arthritis management.
2. Liver Protection (Hepatoprotective):
 - Protects against non-alcoholic liver cirrhosis.
 - Supports liver detoxification.
 - Strengthens liver function.
3. Digestive Health:
 - Addresses chronic digestive issues.
 - Supports healthy digestion.
 - Reduces intestinal inflammation.
4. Blood Sugar and Weight Management:
 - Helps manage blood sugar levels.
 - Improves insulin sensitivity.
 - Supports healthy weight management.

Preparation Methods:

Moringa Leaf Powder Drink:

- Mix 1/2 teaspoon of dried moringa leaf powder with 1 cup warm water or milk.
- Add honey for taste.
- Consume once or twice daily.

Moringa Oil:

- Use for external application on affected joints.
- Massage gently for 5-10 minutes.

Dosage:

- Leaf powder: 1/2-1 teaspoon daily.
- Oil for massage: As needed.

Cautions:

- Individuals with blood pressure conditions should consult before use.
- Those with thyroid conditions should seek professional advice.

- May interact with certain medications.

1.2.6 Dasapushpangal (Ten Sacred Flowers) and their uses

Sub-sector: Medicinal plants for general wellbeing

Source of Knowledge: Passed down from generations

Meaning: "Ten flowers" (Dasa = ten; Pushpangal = flowers)

Note: In Kerala's cultural heritage these medicinal plants have significant role; used in Ayurvedic preparations for various health issues.

i. Karuka — *Cynodon dactylon* — Bhargavi (Sanskrit)

Uses: Treating epilepsy, skin diseases; juice/paste/dried powder can be consumed.

ii. Cheroola — *Aerva lanata* — Bhadra (Sanskrit)

Uses: Treating kidney stones, urinary issues, skin disorders; decoction from whole plant (roots/stems/leaves) helps removal of small kidney stones; treats UTI by increasing urine flow and reducing infection.

iii. Krishnakranti — *Evolvulus alsinoides* — Vishnukranti (Sanskrit)

Uses: Treating premature greying, lack of memory, fever; whole plant fresh/dried as juice or paste; paste can be applied externally for wounds/ulcers.

iv. Poovaam Kurunnila — *Vernonia cinerea* — Sahadevi (Sanskrit)

Uses: Treating conjunctivitis; purifying blood; anti-poison agent; decoction from root and stem for fever; leaf and stem paste external for wounds/conjunctivitis.

v. Muyal Cheviyan (Mokshami) — *Emilia sonchifolia* — Sasashruti (Sanskrit)

Uses: Eye diseases, worm menace; grind whole plant including roots and mix with buttermilk and consume; effective for piles and fistula.

vi. Mukkutti — *Biophytum sensitivum* — Peethapushpa (Sanskrit)

Uses: Treating wounds, ulcers, respiratory ailments; fresh leaves or whole plant used directly or as paste and consumed.

vii. Kayyonni — *Eclipta alba* — Bhringaraja (Sanskrit)

Uses: Hair fall, premature greying, poor eyesight; apply juice on scalp to strengthen roots and nourish hair; used in traditional hair oils.

viii. Nilappana — *Curculigo orchioides* — Thalamooli / Thalapatrika (Sanskrit)

Uses: Urinary problems, jaundice; dried/crushed roots mixed with honey or milk for urinary problems; raw root paste with milk for jaundice.

ix. Uzinja — *Cardiospermum halicacabum* — Indravalli (Sanskrit)

Uses: Hair growth, safe delivery; leaves soaked in water used for hair wash; helps control dandruff and hair fall.

x. Thiruthali — Ipomoea obscura — Lakshmana (Sanskrit)

Uses: Infertility treatment; kashayam for uterine health; leaf juice for skin moisturisation and for eczema/other skin diseases; paste on scalp promotes hair growth.

1.3 Women's Health and Menstruation

1.3.1 Ashgourd Leaf Remedy for Menstrual Pain

Source of Knowledge: Family knowledge passed down through generations

Description & Benefits:

Ashgourd (white gourd) leaves contain compounds that provide cooling and analgesic effects, specifically beneficial for menstrual discomfort and cramping.

Detailed Procedure:

Ingredients:

- Fresh Ashgourd (white gourd) leaves
- Fresh banana leaf

Preparation Steps:

1. Collect fresh Ashgourd leaves.
2. Wash thoroughly with clean water.
3. Place the Ashgourd leaves on a banana leaf.
4. Wrap the banana leaf around the Ashgourd leaves securely.
5. Hold the wrapped leaves directly over burning coal or open flame (maintaining safe distance).
6. Heat gently for 2-3 minutes until the leaf becomes soft and warm.
7. Remove from heat and allow to cool slightly.
8. Unwrap carefully.
9. Squeeze the warmed, heated Ashgourd leaves gently to extract juice.
10. Collect the juice in a clean cup.

Administration:

- Drink the fresh juice immediately.
- Consume once during the onset of menstrual pain.
- Effects are usually felt within 15-30 minutes.

Benefits:

- Rapid relief from menstrual cramping and pain.
- Cooling effect on the body.

- Anti-inflammatory action.
- Helps relax uterine muscles.
- Safe, non-toxic remedy.

Storage: Fresh juice should be consumed immediately; cannot be stored.

Note: This remedy is specifically effective for pain but does not affect menstrual flow.

1.3.2 Cumin Seeds for Women's Health and Digestion

Source of Knowledge: Oral traditions and customary household practices in Kerala

Description & Benefits:

Cumin seeds (*Cuminum cyminum*) have been used for centuries in South Asian cultures to support women's health and digestive function.

Detailed Preparation – Cumin Tea:

Ingredients:

- 1 teaspoon of cumin seeds (or 1/2 teaspoon of ground cumin)
- 1 cup of water
- Optional: honey, lemon juice

Preparation Steps:

1. Heat water in a saucepan until it comes to boil.
2. Add cumin seeds and reduce heat to low.
3. Simmer for 5-7 minutes.
4. Strain the seeds and collect the infused water.
5. Add honey and/or lemon if desired.
6. Drink warm.

Administration:

- Once or twice daily.
- Best consumed in the morning on empty stomach for digestive benefits.
- Can be consumed after meals for immediate digestive support.

Health Benefits:

1. Digestive Aid:
 - Aids digestion and nutrient absorption.
 - Helps relieve bloating and gas.
 - Supports healthy metabolism.
2. Weight Management:
 - Cumin's compounds support healthy weight management.

- Enhances metabolic function.
- Helps prevent fat storage.
- 3. Anti-Inflammatory:
 - Possesses antioxidant activity.
 - Reduces oxidative stress in the body.
 - Supports overall health.
- 4. Women's Health:
 - Helps prevent anemia due to iron content.
 - Beneficial for irregular menstrual cycles.
 - Promotes hormonal balance.
- 5. Cholesterol Management:
 - Helps reduce bad cholesterol (LDL).
 - Supports cardiovascular health.

Iron Content:

Cumin is particularly valuable for women who may be at risk of anemia due to menstrual blood loss.

Dosage:

- Tea: 1 cup daily.
- Ground cumin as spice: 1/4 teaspoon daily in meals.

Precautions: Those allergic to cumin family plants should avoid.

1.3.3 Karkidaka Chikitsa: Monsoon Rejuvenation Therapy

Source of Knowledge: Ayurvedic tradition, interviews with local Ayurvedic practitioners

Description & Benefits:

Karkidaka Chikitsa is a traditional Ayurvedic rejuvenation therapy specifically designed for the monsoon season (Karkidakam). During this period, the body's resistance is naturally lower due to climatic fluctuations and changes in atmospheric pressure.

Seasonal Context:

- Season: Monsoon (July-August in Kerala)
- Duration: Typically 7-49 days depending on individual needs and capacity
- Purpose: Detoxification, restoration of dosha balance, immunity strengthening

Therapeutic Components:

1. Abhyanga (Medicated Oil Massage):
 - Full body massage with warm medicated oils.
 - Duration: 30-45 minutes daily.

- Purpose: Nourishment of tissues, stress relief, improved circulation.
2. Pizhichil (Therapeutic Oil Bath):
 - Continuous pouring of warm medicated oil over the body.
 - Duration: 45-60 minutes.
 - Frequency: 3-5 times per week.
 - Benefits: Deep tissue nourishment, hormonal balance, skin rejuvenation.
 3. Dhara (Continuous Pour of Medicated Liquids):
 - Continuous pouring of medicated liquid on the forehead (shiro dhara) or specific body parts.
 - Duration: 45-60 minutes.
 - Benefits: Mental clarity, stress relief, nervous system balance.

Customization:

All treatments are customized based on the individual's prakriti (body constitution) and specific health conditions.

Karkidaka Kanji: The Medicinal Porridge:

Ingredients:

- Rice or other grains (as base)
- Medicinal herbs specific to the individual's needs
- Ghee
- Natural spices (cumin, coriander, etc.)

Preparation Method:

1. Roast rice lightly to enhance flavor.
2. Cook rice with medicinal herbs and water.
3. Create a thick, nourishing porridge.
4. Add ghee and spices at the end.
5. Consume warm.

Duration:

- 7 days of continuous consumption recommended.
- Supports digestion, toxin elimination, and immunity building.

Timing:

- Best consumed in early morning on empty stomach.
- Or as recommended by Ayurvedic practitioner.

Dietary Recommendations During Karkidaka Chikitsa:

1. Do Consume:

- Light, easily digestible vegetarian foods.
- Warm, freshly cooked meals.
- Herbs and spices with warming properties.
- Warm, boiled water only.

2. Avoid:

- Heavy, oily, or difficult-to-digest foods.
- Cold foods and beverages.
- Raw foods.
- Fermented foods.
- Processed foods.
- Dairy products except in small quantities.

Lifestyle During Therapy:

1. Physical Activity:

- Gentle yoga and stretching.
- Mild pranayama (breathing exercises).
- Walking in fresh air.
- Avoid strenuous exercise during active treatment.

2. Sleep & Rest:

- Aim for 7-8 hours of quality sleep.
- Take an afternoon rest (power nap) if possible.
- Maintain regular sleep schedule.

3. Mental Health:

- Practice meditation for 15-20 minutes daily.
- Avoid stress and mental strain.
- Engage in calming activities.
- Limit screen time.

Why Monsoon is Ideal:

- Natural cooling effect of weather supports treatment.
- Increased humidity aids herb absorption.
- Lower sun exposure reduces pitta imbalance.
- Body's natural tendency toward detoxification aligns with therapy.

Expected Benefits After 7-49 Days:

- Improved digestion and metabolism.

- Clearer, healthier skin.
- Increased energy and vitality.
- Mental clarity and improved focus.
- Better sleep quality.
- Strengthened immune system.
- Relief from chronic conditions.
- Improved joint health and flexibility.
- Overall sense of rejuvenation.

Important Notes:

- Should be done under guidance of qualified Ayurvedic practitioners.
- Not all oils and herbs are suitable for all individuals.
- Proper customization is essential for safety and efficacy.
- Some individuals may experience mild detox symptoms initially (headache, mild nausea) which resolve quickly.

1.3.4 Moringa (Drumstick) Leaves for Enhancing Lactation

Source of Knowledge: Dr. K. R. Raman Namboothiri (“1501 Ottamoolikal”)

Description & Benefits:

Moringa (drumstick) leaves have traditionally been used to enhance breast milk production in women after childbirth. Rich in iron, calcium, vitamins, and phytonutrients, moringa supports maternal nutrition while improving both the quantity and quality of breast milk.

Procedure:

- Use fresh, tender moringa leaves.
- Cook lightly and consume along with regular meals.
- Can be taken daily as part of postnatal diet.

Benefits:

- Enhances lactation naturally
- Improves maternal strength and nutrition
- Supports postnatal recovery
- Safe and food-based remedy

Precautions:

Ensure leaves are clean and freshly cooked. Suitable for regular dietary use.

1.3.5 Moringa Leaf Juice for Menstrual Stomach Cramps

Source of Knowledge: Dr. K. R. Raman Namboothiri (“1501 Ottamoolikal”)

Description & Benefits:

Fresh moringa leaf juice is traditionally used to relieve stomach cramps and discomfort during menstruation. The leaves possess anti-inflammatory and muscle-relaxant properties that help reduce menstrual pain.

Procedure:

- Grind fresh moringa leaves.
- Squeeze and extract approximately 30 ml (1 ounce) of juice.
- Drink once in the morning.

Benefits:

- Relief from menstrual stomach cramps
- Reduces inflammation
- Supports uterine comfort

1.3.6 Acupressure and Massage Remedies

Source of Knowledge: Dr. Atmadev Damodar

Description & Benefits

These non-invasive techniques involve targeted acupressure and oil massage to help relieve:

- Muscle cramps
- Leg and foot pain
- Neck pain
- General body aches

They work by improving blood circulation, relaxing muscles, and reducing tension.

Remedies

For Right Leg Calf Muscle Pain

- Apply strong massage for **3–5 minutes** on the **middle portion of the inner palmar surface of the ring finger (left hand)**.
- Apply strong massage for **3–5 minutes** on the **middle portion of the middle finger (left hand)**.

For Foot Pain

- **Right Foot:** Massage the **distal part behind the nail of the ring finger (left hand)**.
- **Left Foot:** Massage the **distal part of the middle finger (left hand)**.

For General Cramps

- Perform an oil massage on the legs and feet for **10–15 minutes**.
- Immerse the feet in **very hot water** and move them vigorously while soaking.

For Neck Pain

- Massage the **back of either thumb**, just above the first joint.

For General Body Pain

- Apply **gingelly (sesame) oil massage** for **30 minutes**.
- Follow with a **hot water bath**.
- Repeat daily for **21–40 days** for best results.

Precautions

- Use **moderate pressure**; avoid excessive force.
- Consult a healthcare professional if:
 - You are **pregnant**
 - You have **existing medical conditions**
 - Pain persists or worsens

1.4 Liver Health and Detoxification

1.4.1 Keezharnelli (Bhui Amla) for Jaundice Treatment

Source of Knowledge: Family knowledge passed down through generations

Description & Benefits:

Keezharnelli (Bhui Amla in Hindi, Bhumyaamalaki in Sanskrit) is a traditional herb specifically used for liver health and jaundice treatment. It is a hepatoprotective herb that strengthens liver function.

Detailed Preparation:

Ingredients:

- Fresh Keezharnelli plant (including roots)
- Goat's milk (preferably)

Preparation Steps:

1. Carefully dig up the entire Keezharnelli plant including roots.
2. Wash thoroughly with clean water multiple times.
3. Clean away all dirt and debris.
4. Finely chop the plant and roots into small pieces.
5. Grind or pound the pieces into a fine paste.
6. Mix the paste with fresh goat's milk (approximately 1 tablespoon of paste to 1 cup of milk).

7. Stir well until evenly mixed.
8. Drink immediately.

Administration:

- Consume three times daily.
- Best taken on empty stomach in the morning, mid-afternoon, and evening.
- Continue for 10-15 days or until jaundice symptoms resolve.
- Monitor urine color—it should become normal after approximately 10 days.

Therapeutic Properties:

- Hepatoprotective: Protects and strengthens liver tissues.
- Cholagogue: Stimulates bile production.
- Diuretic: Supports elimination of excess bilirubin.
- Antioxidant: Protects liver cells from damage.
- Anti-inflammatory: Reduces liver inflammation.

Expected Results:

- Skin color improvement within 5-7 days.
- Urine color normalization within 10 days.
- Complete resolution of jaundice within 2-3 weeks.

Why Goat's Milk:

- Easier to digest than cow's milk.
- Less allergenic.
- Provides additional liver support.
- Enhances herb absorption.

Precautions:

- Ensure accurate plant identification.
- Use only clean plants from uncontaminated sources.
- If allergy to Bhui Amla exists, discontinue immediately.
- Severe jaundice cases should have medical oversight.

2. LIFESTYLE: WELLNESS PRACTICES & MENTAL HEALTH

2.1 Medicated Drinking Water and Hydration

2.1.1 Medicated Boiled Drinking Water

Source of Knowledge: Payyappallimana, U. (2010). *Traditional knowledge for sustainable development—A case from the health sector in Kerala, India*

Description & Benefits:

Kerala has the highest percentage of households consuming boiled drinking water—a practice deeply rooted in traditional knowledge. This custom prevents waterborne diseases and is considered foundational to preventive health practice.

Basic Procedure:

Simple Boiled Water:

1. Use clean, fresh water (filtered or from a clean source if possible).
2. Boil vigorously for 5-10 minutes.
3. Cover the pot while boiling.
4. Allow to cool before drinking.
5. Store in clean containers.

Advantages:

- Eliminates microbial contaminants and pathogens
- Removes some chemical impurities
- Easier on the digestive system
- Supports detoxification processes

Medicated Boiled Water:

Optional Additions (add before or during boiling):

1. Ginger and Turmeric:
 - 1 small piece of ginger (crushed)
 - 1/4 teaspoon of turmeric powder
 - Boil for 10 minutes
 - Strain and drink
 - Benefits: Anti-inflammatory, immune support, digestive aid
2. Fennel Seeds (Saunf):
 - 1 teaspoon of fennel seeds
 - Boil for 5-7 minutes

- Strain and drink
- Benefits: Cooling, digestive support, freshens breath

3. Cumin Seeds (Jeera):

- 1 teaspoon of cumin seeds
- Boil for 5-7 minutes
- Strain and drink
- Benefits: Enhances digestion, supports metabolism

4. Tulsi and Ginger:

- 5-6 Tulsi leaves
- 1 small piece of ginger
- Boil together for 7 minutes
- Strain and drink
- Benefits: Immune boosting, fever prevention, stress relief

Consumption Pattern:

- Drink throughout the day
- Minimum: 6-8 glasses daily
- Best consumed warm or at room temperature
- Never drink cold or refrigerated water in traditional practice

Benefits of Regular Medicated Boiled Water:

- Prevention of waterborne diseases
- Support for systemic health conditions
- Enhanced digestion and metabolism
- Improved immunity
- Detoxification support
- Better absorption of herbs through heat infusion
- Alignment with natural rhythm of body temperature

Storage:

- Store in clean, covered containers
- Keeps for 24 hours if refrigerated
- Best consumed fresh

2.2 Energy Work and Traditional Healing

Mudra Therapy for Everyday Health Conditions

Sub-sector: Hand Gestures for Healing

Source: Inputs from Smt. Baby Girija

Mudra therapy involves specific hand gestures believed to channel prana (life energy) to address various health conditions. Perform in a seated posture (Sukhasana, Padmasana or chair) with palms up on knees, spine straight.

1. Prana Mudra (Fever, Diabetes, Energy Boost)
Touch tips of thumb, ring finger, and little finger together; extend index and middle fingers. Hold 5-15 minutes, breathe deeply, visualize energy flow. Benefits: Stimulates vital energy, improves focus, immunity.
2. Apana Mudra (Detoxification, Elimination)
Touch tips of middle and ring fingers to thumb tip; extend index and little fingers. Hold 30-45 minutes daily. Benefits: Supports natural detoxification, aids diabetes management.
3. Gyana Mudra (Sleep Disorders, Concentration)
Touch tips of thumb and index finger to form a circle; extend other fingers. Hold 10-15 minutes, focus on breath. Benefits: Enhances knowledge, mental clarity, sleep quality.
4. Aakash Mudra (Vertigo, Mental Clarity)
Touch tips of middle finger and thumb; extend other fingers. Hold 10-15 minutes. Benefits: Promotes space element awareness, detoxification, clarity.
5. Vyana Mudra (Blood Pressure, Circulation)
Join tips of thumb, index, and middle fingers; extend ring and little fingers. Hold 10-50 minutes. Benefits: Improves blood circulation, overall well-being.
6. Sandhi Mudra (Knee/Joint Pain)
Right hand: thumb + ring finger tips. Left hand: thumb + middle finger tips. Hold 10-15 minutes. Benefits: Balances joint energy, relieves pain.
7. Indra Mudra (Cholesterol, Skin/Eye Health)
Touch tips of thumb and little finger; extend others. Hold 10-15 minutes. Benefits: Balances water element, aids digestion, skin.
8. Surya Mudra (Weight Loss, Digestion)
Bend ring finger to base of thumb; press with thumb; extend others. Hold 15-45 minutes on empty stomach. Benefits: Increases fire element, metabolism.

2.2.1 Marma Therapy for Mental Health and Stress Relief

Source of Knowledge: Choudhary, M., Rajan, A., & Sharma, S. (2025, April). *International Ayurvedic Medical Journal*

Description & Benefits:

Marma therapy is a traditional method of healing practiced throughout South India. It involves stimulation of specific energy points believed to be vital junctions of life force (prana) in the body.

Traditional Understanding:

According to Ayurvedic philosophy, physical and mental disorders arise from blockages or imbalances in these marma (vital energy) points. Marma therapy aims to restore balance and free-flowing energy.

Technique:

- Gentle pressure applied to specific marma points
- Circular massage movements
- Duration: 5-15 minutes per point
- Pressure varies based on individual tolerance

Major Marma Points for Stress Relief and Mental Health:

1. Crown Point (Brahmarandra):
 - Location: Top of the head
 - Method: Gentle circular massage with fingertips
 - Duration: 2-3 minutes
 - Benefits: Mental clarity, stress relief, improved sleep
2. Third Eye Point (Ajna Marma):
 - Location: Between the eyebrows
 - Method: Gentle pressure and small circular movements
 - Duration: 1-2 minutes
 - Benefits: Mental focus, emotional balance, intuition
3. Throat Point (Kantha Marma):
 - Location: Central throat area
 - Method: Gentle massage with palm
 - Duration: 2-3 minutes
 - Benefits: Expression, communication, stress release
4. Heart Point (Hridaya Marma):
 - Location: Center of chest
 - Method: Gentle circular massage
 - Duration: 2-3 minutes
 - Benefits: Emotional stability, compassion, cardiovascular health
5. Wrist Points:
 - Location: Inner wrist (where pulse is felt)
 - Method: Gentle circular massage with thumb

- Duration: 2-3 minutes on each wrist
 - Benefits: Sleep regulation, anxiety relief, mood stabilization
6. Ankle Point (Gulpha Marma):
- Location: Between ankle bone and Achilles tendon
 - Method: Gentle pressure and circular movements
 - Duration: 2-3 minutes per ankle
 - Benefits: Grounding, stress relief, improved circulation
7. Sole Point (Talahridaya):
- Location: Center of foot sole
 - Method: Gentle pressure point massage
 - Duration: 2-3 minutes per foot
 - Benefits: Grounding energy, full body relaxation, anxiety relief

How Marma Therapy Works:

1. Neurochemical Release:
 - Stimulation of marma points triggers release of:
 - Serotonin (mood regulation)
 - Endorphins (natural painkillers)
 - Other calming neurotransmitters
2. Nervous System Regulation:
 - Activates parasympathetic nervous system
 - Reduces stress hormone levels (cortisol)
 - Promotes "rest and digest" state
3. Energy Flow:
 - Removes blockages in energy channels
 - Enhances prana circulation
 - Restores balance and vitality

Benefits of Regular Marma Therapy:

Physical Benefits:

- Improved circulation
- Reduced muscle tension
- Enhanced flexibility
- Better pain management
- Improved sleep quality

- Increased energy levels

Mental & Emotional Benefits:

- Significant stress reduction
- Improved mood and emotional stability
- Enhanced mental clarity and focus
- Reduced anxiety and depression symptoms
- Improved cognitive performance
- Better emotional processing

Sleep Benefits:

- Longer sleep duration
- Better sleep quality
- Easier falling asleep
- Fewer nighttime disturbances

Cognitive Benefits:

- Improved concentration
- Enhanced memory
- Better decision-making
- Increased creativity

Frequency of Treatment:

- For acute stress: Daily for 7-10 days, then 3 times per week
- For maintenance: 2-3 times per week
- Long-term wellness: Once weekly

Self-Application Instructions:

1. Setting:

- Choose a quiet, clean space
- Sit in a comfortable position
- Avoid loud noises and distractions
- Use gentle lighting

2. Technique:

- Wash hands thoroughly before beginning
- Apply light oil (sesame or coconut) if desired
- Use fingertips or thumbs for gentle pressure
- Move in clockwise direction

- Maintain steady, rhythmic pressure
- Never force or press hard

3. Duration:

- Start with 5-10 minutes total
- Gradually increase to 15-20 minutes
- Best done in morning or evening

Professional Treatment:

- Certified Ayurvedic practitioners offer deeper treatment
- Professional treatment is more effective for chronic conditions
- Combines multiple modalities for optimal results
- Customized based on individual constitution

Precautions:

- Do not apply pressure on injured or damaged areas
- Avoid during acute illness or fever
- Pregnant women should consult practitioner before treatment
- Those with pacemakers should avoid certain points
- Always consult qualified practitioner for serious conditions

Marma Chikilsa: Musculoskeletal and Orthopaedic Applications

Sub-sector: Pressure Point Therapy

Marma Chikilsa is a neuromuscular and orthopaedic healing system preserved in Kerala through Kalaripayattu tradition, where masters serve as both martial teachers and healers. Marmas are vital energy points at junctions of muscles, veins, ligaments, bones, or joints. Obstructions create imbalances leading to disease; therapy restores prana flow, boosting healing capacity.

Applications: Sports/musculoskeletal injuries, acute/chronic pain, muscle/joint stiffness, back/neck/shoulder/knee pain, frozen shoulder, arthritis, sciatica, repetitive strain injuries.

Methods:

- Kalari Marma Massage: Specific techniques for each point (gentle pressure, circular movements).
- Chavutti Thirummal: Foot massage with herbal oils.
- Herbal Support: External/internal medicines for massage.

2.2.2 Kalariyoga: Ancient Martial Art Meets Modern Wellness

Source of Knowledge: Sundar, P. (2018). *The Hindu*; Kadathanadan Kalari Sangam; Nanthancode Vanitha Samithi records

Description & Benefits:

Kalariyoga is a unique fusion of Kalarippayattu (the ancient martial art originating from Kerala) and traditional yogic practices. It combines dynamic, powerful movements with slow, deliberate postures and breath control, offering benefits of both disciplines.

Historical Context:

- Kalarippayattu: One of the oldest martial art forms in existence, originating in Kerala
- Development: Created centuries ago for warrior training and self-defense
- Evolution: Integrated with yoga for holistic wellness
- Modern Application: Transformed for health, fitness, and mental well-being

Components of Kalariyoga:

1. Physical Movement (Kalarippayattu Elements):
 - Dynamic, powerful stances
 - Coordinated movements of arms and legs
 - Balance and agility training
 - Strength-building exercises
 - Weapon forms (symbolically or with actual weapons)
2. Yogic Elements:
 - Slow, deliberate postures (asanas)
 - Breath control techniques (pranayama)
 - Meditation practices
 - Mental concentration exercises
 - Energy awareness and control

Physical Benefits:

1. Strength and Flexibility:
 - Builds lean muscle mass
 - Increases overall flexibility
 - Improves joint mobility
 - Enhances coordination
 - Develops core strength

- Improves balance and stability
2. Cardiovascular Health:
 - Increases heart rate appropriately
 - Improves cardiovascular endurance
 - Enhances oxygen utilization
 - Supports healthy blood pressure
 - Improves overall stamina
 3. Postural Alignment:
 - Corrects postural imbalances
 - Strengthens supporting muscles
 - Reduces back and neck pain
 - Improves alignment during daily activities
 - Prevents injury

Mental and Emotional Benefits:

1. Mental Health:
 - Reduces stress and anxiety
 - Improves mood through endorphin release
 - Enhances mental clarity and focus
 - Improves cognitive function
 - Promotes emotional stability
2. Confidence and Empowerment:
 - Builds self-confidence through skill acquisition
 - Develops sense of personal power and capability
 - Provides sense of achievement and mastery
 - Improves self-esteem
 - Promotes resilience and mental toughness
3. Meditation and Mindfulness:
 - Develops concentration and focus
 - Enhances present-moment awareness
 - Promotes relaxation response
 - Increases body-mind connection
 - Cultivates peaceful mental state

Self-Defense and Practical Benefits:

- Teaches practical self-defense techniques
- Develops awareness of surroundings
- Builds reaction time and reflexes
- Promotes personal safety
- Provides sense of security and capability

Who Can Practice:

- Suitable for all ages (from children to elderly)
- Accessible to all fitness levels
- Can be adapted for various physical conditions
- No gender restrictions
- Both genders benefit equally

Getting Started:

Finding Classes:

- Look for certified Kalariyoga instructors
- Many yoga studios now offer Kalariyoga
- Nanthancode Vanitha Samithi offers classes
- Online courses available for beginners

Initial Practice:

- Frequency: 2-3 times per week
- Duration: 45-60 minutes per class
- Progress at individual pace
- Modifications available for all abilities

Equipment Needed:

- Comfortable, loose-fitting clothing
- Yoga mat or practice space
- Weapons (optional, for advanced practitioners)
- Most basic practice requires only body and space

Long-Term Benefits of Regular Practice:

- Transformation of physical health
- Significant mental and emotional improvement
- Development of inner strength and resilience
- Mastery of practical self-defense skills
- Integration of ancient wisdom with modern wellness

- Enhanced quality of life and sense of purpose

2.2.3 Oil Pulling

Sub-sector: Oral Health Detoxification

Source: Adivasi traditions

Benefits: Detoxifies mouth, improves oral health, reduces bacteria.

Procedure:

1. Take 1 tablespoon of pure sesame or coconut oil.
2. Swish in mouth for 10-20 minutes every morning.
3. Perform on empty stomach.
4. Spit out the oil - never swallow.
5. Rinse with warm water.

Benefits:

- Oral detoxification
- Improved oral health
- Reduces harmful bacteria
- Whitens teeth naturally
- Strengthens gums
- Freshens breath

Precautions: Use pure, organic oil; consult dentist if dental issues exist; avoid if sensitive to oils.

2.2.4 Surya Namaskar (Sun Salutation)

Sub-sector: Daily Rhythm Alignment

Source: Yoga and meditation classes

Benefits: Aligns body with natural rhythms, improves flexibility, increases energy.

Description:

Surya Namaskar is a sequence of 12 postures performed facing the sun, traditionally done in the morning to align with natural rhythms and solar energy.

Benefits:

- Aligns body with natural circadian rhythms
- Improves overall flexibility and strength
- Increases energy levels throughout the day
- Enhances mental clarity
- Supports cardiovascular health
- Promotes emotional well-being

- Strengthens muscles and joints
- Best Practice:
- Perform daily in the morning facing the sun
 - Can be done on empty stomach or after light breakfast
 - Best done outdoors when possible
 - Repeat 5-12 rounds for optimal benefits

Precautions:

- Modify poses for beginners
- Avoid if you have back or neck injuries
- Pregnant women should modify or avoid certain poses
- Consult instructor if unsure about proper form

2.2.5 Barefoot Walking on Grass

Sub-sector: Grounding Eye Health

Source: Traditional eye Vaidyars

Benefits: Improves eyesight and connects body with Earth's healing energy.

Procedure:

1. Walk barefoot on fresh, dew-covered grass.
2. Perform for 10-15 minutes daily.
3. Best done in early morning.
4. Ensure grass is clean and safe.

How It Works:

- Barefoot contact with Earth provides grounding energy
- Dew on grass has cooling properties
- Stimulates reflex points on soles of feet
- Improves eye health and vision naturally

Benefits:

- Improves eyesight and visual clarity
- Grounds body to Earth's energy
- Reduces inflammation
- Improves overall circulation
- Promotes better sleep
- Reduces stress and anxiety

- Supports immune function

Precautions:

- Clean feet thoroughly after walking
- Avoid if you have open wounds or cuts
- Check area for hazards before walking
- Not suitable in harsh weather or when ground is extremely cold

2.2.6 Seasonal Eating

Sub-sector: Digestive Alignment

Benefits: Aligns digestion with nature's cycles, prevents seasonal illness.

Principle:

Eat locally grown, seasonal foods that naturally align with the body's digestive capacity and environmental conditions of that season.

Seasonal Guidelines:

Summer (March-May)

- Focus: Cooling foods and fruits
- Eat: Watermelon, mango, coconut water, cucumber, mint, leafy greens
- Benefit: Cools body temperature, prevents overheating
- Preparation: Fresh salads, juices, cooling spices (coriander, fennel)

Monsoon (June-August)

- Focus: Light, warming foods
- Eat: Leafy vegetables, tubers, legumes, warming spices
- Benefit: Supports immune system during season of low immunity
- Preparation: Steamed vegetables, warm soups, digestive spices (ginger, turmeric)

Autumn (September-November)

- Focus: Transitional foods, building immunity
- Eat: Root vegetables, squashes, nuts, seeds
- Benefit: Prepares body for cold season
- Preparation: Roasted vegetables, warm cooked meals

Winter (December-February)

- Focus: Warming, nourishing foods
- Eat: Roots, nuts, seeds, warming spices, ghee
- Benefit: Provides warmth and energy during cold months
- Preparation: Soups, stews, warm spiced preparations

Benefits:

- Aligns digestion with seasonal environment
- Prevents seasonal illnesses
- Supports natural energy cycles
- Improves nutrient absorption
- Reduces digestive complaints
- Promotes balanced body temperature
- Supports local agriculture

Precautions: Balance according to individual body type and constitution; consult Ayurvedic practitioner if unsure.

2.2.7 Axilla Pressure Technique for Nasal Block Relief

Source of Knowledge: Dr. Atmadev Damodar

Description & Benefits:

This simple, non-invasive technique helps relieve nasal blockage by applying pressure to the opposite armpit (axilla), influencing nerve reflex pathways associated with nasal airflow.

Procedure:

- **Right nostril blocked:**
Place the right hand under the left armpit and apply gentle upward pressure for 3–5 minutes. Lie on the left side.
- **Left nostril blocked:**
Place the left hand under the right armpit and apply gentle upward pressure for 3–5 minutes. Lie on the right side.

Benefits:

- Immediate relief from nasal congestion
- No medication required
- Safe and suitable for all ages

2.3 Lifestyle Practices

2.3.1 Home Architecture for Health & Vitality

Traditional home design intentionally reduces excessive comfort to promote natural movement, better posture, and overall vitality.

Key Principles:

- Low seating/sleeping platforms encourage squatting, floor sitting – strengthens core, improves digestion/posture

- Narrow doorways/steps require mindful movement – enhances balance/coordination
- Elevated sleeping areas prevent dampness, improve air circulation
- Multi-use spaces discourage sedentary room-specific habits
- Sloped roofs/stair access naturally increase daily activity
- Natural light/shade regulates circadian rhythms

Ladakh Village Example:

High-altitude homes designed for survival & harmony:

- Steep ladders/paths = mandatory exercise
- Water carrying distances built-in
- Ground-level cooking
- Raised sleeping platforms
- No lounging areas

Modern Takeaways:

- Remove excess furniture, use floor cushions
- Vertical storage (reach up/down)
- Design pathways that get used daily
- Low beds/platforms
- Multi-functional rooms

2.3.2 Herbal Teas for Memory, Brain Health, and General Wellbeing

Source: Life experience of Smt. Rani Ramachandran

Description & Benefits:

Hibiscus tea and Shankhpushpam (Butterfly Pea) tea are caffeine-free herbal beverages traditionally consumed for improving memory, brain function, and overall health.

Preparation Method:

- Wash freshly plucked hibiscus or butterfly pea flowers.
- Place flowers in a cup or glass.
- Pour boiled water over them.
- Once the water turns red (hibiscus) or blue (butterfly pea), remove flowers and consume warm.

Health Benefits:

- **Hibiscus Tea:**
Rich in antioxidants; supports skin and hair health, weight management, and helps reduce blood pressure and cholesterol.

- **Butterfly Pea Tea:**
Anti-inflammatory and antioxidant; improves memory, eyesight, digestion, and stabilizes blood sugar levels.

Consumption:

Can be consumed daily.

2.3.3 Moringa Leaf and Rock Salt Paste for Pain and Inflammation

Source: A family Ayurvedic Doctor

Description & Benefits:

This external application uses moringa leaves combined with rock salt to relieve localized pain and inflammation.

Procedure:

- Take a handful of fresh moringa leaves.
- Add one teaspoon of rock salt.
- Grind into a smooth paste.
- Apply directly to the affected area.

Effect:

Relief is usually experienced within one hour.

Benefits:

- Reduces pain and swelling
- Anti-inflammatory action
- Natural and non-toxic external remedy

2.3.4 Traditional Hair Care Remedy Using Moringa and Fermented Rice Water

Source of Knowledge: A family Ayurvedic Doctor

Description & Benefits:

This traditional hair care remedy helps treat scalp bumps, prevent dandruff, and promote healthy hair growth.

Procedure:

- Take a handful of fresh moringa leaves.
- Grind with fermented rice water to form a paste.
- Apply evenly to scalp and hair.
- Leave on for one hour.

- Wash off with clean water.

Frequency:

Once a week.

Benefits:

- Reduces dandruff
- Treats scalp irritation
- Promotes hair growth
- Strengthens hair roots

2.3.5 Yoga Nidra for Nervous System Regulation and Blood Pressure Balance

Source of Knowledge:

Based on teachings of Swami Satyananda Saraswati

Description & Benefits:

Yoga Nidra is a guided yogic relaxation technique that induces deep physical, mental, and emotional relaxation while maintaining conscious awareness. Regular practice is traditionally recommended for calming the nervous system, reducing stress, and supporting balanced blood pressure levels.

Practice Guidelines:

- Yoga Nidra may be practised once or twice daily.
- Best practised on an empty stomach or before meals.
- The practitioner lies in a comfortable supine position and follows guided instructions.

Authorised Guided Practice: Source: Dr. Atma Dev.

An authorised guided Yoga Nidra session is available at:
<https://youtu.be/W458qDBn4oA?si=Tl0-Tnx6JYZk88TY>

Benefits:

- Reduces stress and anxiety
- Supports regulation of blood pressure
- Improves sleep quality
- Enhances mind–body balance

3. AGRICULTURE & FARMING: ORGANIC & SUSTAINABLE PRACTICES

3.1 Traditional Water and Soil Management

3.1.1 Terrace Farming and Step Cultivation for Sustainable Land Use

Source of Knowledge: Field work, cultural imbibing, traditional practices from the hills of Garhwal (Uttarakhand)" (Highlights national diversity.)

Description & Benefits:

Terrace farming and step cultivation are ancient techniques developed in mountainous regions to optimize land use, prevent soil erosion, and maintain soil fertility while working with challenging terrain.

Mechanism and Benefits:

1. Soil Erosion Prevention:
 - Step-like formations slow water runoff
 - Water soaks into soil more gradually
 - Sediment is trapped on terraces
 - Topsoil remains in place
 - Results in improved soil retention over years
2. Water Conservation:
 - More water reaches plant roots
 - Reduced water loss through runoff
 - Improved water retention in soil
 - Beneficial during dry seasons
 - Reduces irrigation needs
3. Land Optimization:
 - Makes sloped lands productive
 - Utilizes otherwise unusable terrain
 - Creates level planting areas
 - Prevents landslides
 - Increases cultivable area
4. Soil Fertility:
 - Trapped sediment is nutrient-rich
 - Improved soil structure
 - Better water-holding capacity
 - Creates deeper soil layers over time

- Supports diverse plant growth

Construction and Maintenance:

Initial Construction:

1. Survey the slope and mark contour lines
2. Dig shallow trenches along contours
3. Create "steps" by building up the downhill edge
4. Compact soil firmly
5. Add organic matter to enrich soil
6. Create drainage channels if needed

Ongoing Maintenance:

- Check terraces after heavy rains
- Repair any erosion or damage
- Maintain drainage channels
- Add organic matter annually
- Prune vegetation to prevent erosion

Crop Rotation on Terraced Land:

- Varies crops among terraces each season
- Prevents nutrient depletion
- Reduces pest and disease buildup
- Maintains soil health long-term

Traditional Vegetables Suited for Terraced Farming:

- Gaderi (local leafy green)
- Pinalu
- Tarud
- Rai (mustard)
- Mooli (radish)
- Spinach

Long-Term Results:

- Increased productivity over 5-10 years
- Improved water availability
- Enhanced crop yields
- Greater food security
- Sustainable long-term farming

3.2 Organic Farming and Soil Amendment

3.2.1 Jaiva Slurry (Organic Liquid Manure) Preparation

Source of Knowledge: Knowledge from Shri P.V. Benchamin, Kerala Agricultural University, Mannuthy; tried and tested successfully

Description & Benefits:

Jaiva Slurry is a traditional organic liquid manure preparation that provides nutrients to flowering and vegetable plants without synthetic chemicals. It enhances plant health, flower production, and overall yield.

Method A: Jaiva Slurry With Cowdung

Ingredients:

- Cowdung (preferably fresh): 250 grams
- Neem Cake (powdered/crushed): 75 grams
- Groundnut/Peanut Cake (powdered/crushed): 75 grams
- Cow's urine (optional but beneficial): 250 ml
- Jaggery: 50 grams
- Water (preferably rice water or "Kanjivellam"): 1.250 liters
- No bone meal required (as per traditional formula)

Detailed Preparation Procedure:

Step 1: Prepare the Solution

1. Take a large drum or container
2. Dissolve jaggery in a small amount of water (heat if necessary to dissolve completely)
3. Add cowdung to 1.250 liters of water
4. Add powdered neem cake
5. Add powdered peanut cake
6. Add cow's urine if using
7. Mix the jaggery solution into the mixture

Step 2: Fermentation Process

1. Stir all ingredients thoroughly to combine
2. Cover the drum/container (not completely sealed, allow some air circulation)
3. Keep in a shaded area, protected from direct sunlight and rain
4. Let ferment for 5 days

Step 3: Daily Stirring

1. Stir the mixture twice daily (morning and evening)

2. Use a stick or long spoon to stir
3. Mix from bottom to top
4. Ensure all settled material is resuspended

Step 4: Activation (Day 5)

1. On the 5th day, add 5-6 times water (approximately 6 liters)
2. Stir thoroughly
3. Let settle for some time (30 minutes to 1 hour)
4. The settled solids will sink to the bottom

Step 5: Application

1. The clear liquid on top is the active liquid manure
2. Transfer this liquid carefully (avoid stirring up the settled solids)
3. Pour approximately 500 ml (2 cups) of liquid into each grow bag
4. Apply away from the roots, on the sides of the grow bag or planting area
5. Water the plant immediately after to help distribute nutrients

Frequency of Application:

- Apply every 10-15 days
- If excess liquid remains, can repeat application after 3 days
- Continue throughout growing season

Usage of Settled Solids:

- The sediment at the bottom can be mixed with soil
- Use as supplementary soil amendment
- Add to sides of grow bags mixed with soil
- Do not apply directly on plant roots

Important Notes About Method A:

- The liquid will have a strong, foul smell—this is normal and indicates proper fermentation
- Smell dissipates once applied and worked into soil
- Do not be discouraged by the odor; it indicates beneficial microbial activity

Method B: Jaiva Slurry Without Cowdung

Ingredients:

- Groundnut Cake (powdered): 250 grams
- Neem Cake (powdered): 50 grams

- Jaggery (powdered): 10 grams (or 1 piece)
- Water: 1.250 liters (rice water or regular clean water)

Preparation Procedure:

1. Follow the same steps as Method A (Steps 1-5)
2. The fermentation process is identical
3. Application method is the same
4. Duration and frequency of use are the same
5. This method is suitable when cowdung is not available

Benefits of Jaiva Slurry:

Plant Benefits:

- Provides nitrogen, phosphorus, and potassium
- Enhances flowering and fruit production
- Promotes healthy foliage growth
- Improves plant vigor and disease resistance
- Increases yield significantly

Soil Benefits:

- Improves soil structure
- Enhances water-holding capacity
- Promotes beneficial microbial activity
- Increases organic matter content
- Improves long-term soil fertility

Environmental Benefits:

- Completely organic and biodegradable
- No chemical residues
- Safe for edible crops
- Supports sustainable farming
- Reduces dependency on chemical inputs

Storage and Shelf Life:

- Liquid portion: Use within 2-4 weeks of preparation
- Settled solids: Can be stored dry for several months
- Always prepare fresh batch for best results
- Store container in cool, shaded location

3.2.2 Easy Household Manure for Flowering and Vegetable Plants

Source of Knowledge: Knowledge from Shri P.V. Benchamin, Kerala Agricultural University; tried and tested successfully

Description & Benefits:

This simple, easy-to-prepare household manure uses kitchen waste items, making it accessible to all gardeners. It provides immediate nutrients for flowering plants and vegetables without any chemical inputs.

Ingredients:

- Skin of 1 banana (the white part inside is nutrient-rich)
- Used tea leaves from 2-3 cups of tea (washed to remove milk content)
- 1 egg shell (washed and dried)

Note: For easy preparation, these ingredients can be collected over 2-3 days, then ground together

Detailed Preparation:

Step 1: Collection and Preparation

1. Collect banana skin from used bananas
2. Collect used tea leaves from tea preparation
3. Wash tea leaves carefully with water to remove any milk residue
4. Collect eggshells and wash them
5. Dry all materials if collecting over 2-3 days

Step 2: Grinding

1. Break eggshells into small pieces
2. Tear banana skin into small pieces
3. Place all materials (banana skin, tea leaves, egg shell pieces) in a mortar or blender
4. Grind into a fine mixture or powder
5. The consistency should be granular/powdery

Step 3: Application

1. Add the prepared mixture directly into grow bags or pots
2. Mix well with the soil
3. Water the plants after application
4. For potted plants: Use 1-2 tablespoons per pot
5. For grow bags: Use 2-3 tablespoons per bag

Timing of Application:

- Apply every 2-3 weeks during growing season
- Best applied at the beginning of the growing season
- Can be applied multiple times through the season

Benefits:

Nutrients Provided:

- Banana Skin: Rich in potassium, phosphorus, and micronutrients
- Tea Leaves: Provide nitrogen and tannins, improve soil structure
- Eggshells: Provide calcium and other minerals

Plant Benefits:

- Promotes abundant flowering
- Improves fruit production
- Enhances vegetable yield
- Strengthens plant structure
- Improves disease resistance

Soil Benefits:

- Improves soil organic matter
- Enhances microbial activity
- Improves water retention
- Long-term soil fertility improvement
- Creates sustainable growing medium

Environmental & Economic Benefits:

- Completely zero-waste system
- Uses kitchen scraps
- No cost involved
- Reduces landfill waste
- Promotes circular economy
- Sustainable gardening

Precautions:

- Ensure banana skin is completely decomposed into soil
- Use only organic tea (without chemicals or pesticides)
- Eggshells should be completely powdered for best results
- Do not apply directly on plant leaves or stems

3.2.3 Neem Oil: Traditional Biopesticide

Source of Knowledge: Common household and farming practice in many states of India

Description & Benefits:

Neem oil, extracted from the neem tree (*Azadirachta indica*), is a traditional biopesticide widely used across South Asia. It is both a contact insecticide and insect growth regulator, while also supporting soil health.

Properties of Neem Oil:

1. Insecticidal Properties:
 - Disrupts insect feeding
 - Interferes with reproductive cycle
 - Affects insect growth and molting
 - Works on wide range of pests
2. Fungicidal Properties:
 - Prevents fungal infections
 - Controls powdery mildew
 - Reduces fungal leaf spots
 - Antifungal action
3. Soil Amendments:
 - Reduces nitrogen loss through denitrification
 - Minimizes urea depletion in soil
 - Improves long-term soil fertility
 - Supports beneficial soil microorganisms

Preparation and Application:

Direct Neem Oil Application:

Ingredients:

- Neem oil (available in herbal stores): 2-3 tablespoons
- Mild soap (or dish soap): 1/2 teaspoon
- Warm water: 1 liter

Preparation Steps:

1. Heat water until warm (not hot)
2. Dissolve soap in water
3. Add neem oil to the soapy water
4. Mix thoroughly using a sprayer or by shaking

5. The mixture should be uniform (emulsified)

Application Method:

1. Use a spray bottle or garden sprayer
2. Spray on leaves and stems (top and bottom)
3. Apply in early morning or late evening (to protect beneficial insects)
4. Avoid spraying during peak sunlight
5. Ensure thorough coverage
6. Repeat every 7-10 days if needed
7. Stop spraying 1-2 weeks before harvesting edible crops

Pests Controlled:

- Aphids
- Mites
- Scale insects
- Mealybugs
- Caterpillars
- Whiteflies
- Leaf-eating insects
- Fungal infections

Dosage Guide:

Plant Type	Oil Concentration	Frequency
Vegetables (growing)	2-3%	Every 7-10 days

Plant Type	Oil Concentration	Frequency
Flowering plants	2-3%	Every 7-10 days
Fruit plants	1-2%	Every 10-14 days
Indoor plants	1-2%	Every 14 days

Availability and Cost:

- Widely available in herbal stores throughout Kerala
- Inexpensive and affordable
- Various brands available
- Pure neem oil is preferred for best results

Benefits:

- Non-toxic to humans and animals
- Environmentally safe
- Supports ecosystem health
- Enhances plant vigor
- Improves crop quality
- Reduces dependency on chemical pesticides
- Supports sustainable farming

Precautions:

- Always use in diluted form
- Never apply pure neem oil directly on plants
- Test on small area first to check for plant sensitivity
- Avoid application during extreme heat
- Keep away from eyes and skin
- Store in cool place away from light

3.3 Organic Pest Management

3.3.1 Mango Ginger for Rodent Deterrence

Source of Knowledge: Knowledge from Shri P.V. Benchamin, Kerala Agricultural University; tried and tested successfully

Description & Benefits:

Mango Ginger (*Curcuma Amada*), also called *Amba Haldi*, is a traditional plant used to deter rodents from underground crops. The plant's strong smell is unappealing to rodents, causing them to avoid the area.

Mechanism:

Rodents that attempt to eat underground tuber plants like tapioca and sweet potatoes can be deterred by the presence of Mango Ginger. The plant's pungent aroma creates a natural barrier.

Implementation:

Planting Strategy:

1. Identify areas where rodents are active
2. Plant Mango Ginger near susceptible crops (tapioca, sweet potatoes, etc.)
3. Space plants 1-2 meters apart for adequate coverage
4. Plant around the perimeter of vulnerable crops
5. Maintain plants throughout growing season

Plant Care:

- Water regularly to keep plants healthy
- Provide adequate sunlight
- Allow plant to establish before expecting results
- Maintain throughout season

Additional Benefits:

- Medicinal herb available for household use
- Anti-inflammatory properties
- Culinary uses in some cuisines
- Attractive to beneficial insects
- No cost after initial establishment

Advantages:

- Completely organic method
- No chemicals used
- Safe for all plants and animals
- Self-sustaining once established
- Effective preventive measure

- Multiple uses for the plant

3.3.2 Maida (Refined Flour) Method for Rodent Control

Source of Knowledge: Knowledge from WEBINAR, tried and tested from own experience

Description & Benefits:

An alternative method using common household ingredients. When rodents consume maida (refined flour), they feel bloated and experience indigestion, which can be fatal. They do not return after this experience.

Materials Needed:

- Maida (refined flour)
- Small containers or shallow dishes
- Protective gloves

Procedure:

Preparation:

1. Make small balls of maida (approximately size of peas to marbles)
2. No other ingredients needed
3. Prepare multiple balls for placement in different locations

Placement:

1. Identify areas where rodents frequent
2. Place maida balls in these locations
3. Place near entry points
4. Position both indoors and outdoors as needed
5. Place in protected areas away from pets and children

Mechanism of Action:

- Maida is attractive to rodents
- Upon consumption, the flour causes bloating
- The swelling creates discomfort and indigestion
- Rodents may perish from the blockage
- Surviving rodents avoid the area afterward

Effectiveness:

- Very effective prevention
- Reduces rodent population quickly
- Long-term deterrent (surviving rodents avoid area)
- Non-toxic for humans and other animals

Precautions:

- Place away from pets and children
- Use protective gloves when handling
- Dispose of dead rodents properly
- Maintain clean surroundings to prevent rodent attraction
- Repeat as needed for ongoing control

Advantages:

- No chemicals used
- Completely organic
- No cost
- Simple to implement
- Highly effective
- No toxic residues

3.3.3 Salt Method for Snail Control in Gardens

Source of Knowledge: Knowledge from Shri P.V. Benchamin, Kerala Agricultural University; tried and tested successfully

Description & Benefits:

Snails damage young saplings and soft plants in gardens. This simple, salt-based method controls snails without chemicals.

Mechanism:

Salt is dehydrating to snails. Direct application causes rapid dehydration and death. The method is instant and very effective.

Procedure:

Implementation:

1. Snails are active during evening and night hours
2. Search for snails after sunset
3. Locate snails on plants, soil, or garden areas
4. Apply a small pinch of salt directly onto each snail
5. Death is instantaneous (within seconds)
6. Clear away dead snails

Frequency:

- Conduct search and treatment 2-3 times per week

- Especially important in monsoon season when snail activity increases
- Continue until snail population is controlled

Important Precautions:

- Ensure salt does not contact plants—salt damages plant tissue
- Apply salt only directly on snails, not on surrounding soil
- Use minimal amount of salt per snail
- Dispose of dead snails properly
- Wear gloves for hygiene

Advantages:

- No chemicals used
- Completely organic and safe
- No cost involved
- Instant results
- Effective on all snail species
- Suitable for organic gardens

Long-Term Effectiveness:

- Regular application controls population
- Most effective preventive method
- Other snails may move away due to presence of dead snails
- Repeated application provides long-term control

3.3.4 Herbal Spray for Better Flowering and Yield

Source of Knowledge: Knowledge from Shri P.V. Benchamin, Kerala Agricultural University; tried and tested successfully

Description & Benefits:

This herbal spray containing curd and asafoetida enhances flowering, improves fruit set, and increases overall yield in vegetable and flowering plants. It works by providing micronutrients and stimulating plant growth hormones.

Detailed Preparation:

Ingredients:

- Curd (yogurt): 2 tablespoons (approximately 30 ml)
- White Heeng (Asafoetida): 5 grams
- Water: 1 liter

Preparation Procedure:

Step 1: Prepare Curd

1. Beat curd in a mixer or blender
2. Beat for 1-2 minutes until slightly frothy
3. This helps with absorption and distribution

Step 2: Prepare Heeng Solution

1. Heat water in a saucepan until it just begins to steam (do not boil)
2. Add white heeng to the hot water
3. Stir to dissolve completely
4. Allow to cool to room temperature

Step 3: Combine

1. Once cooled, add the beaten curd to the heeng solution
2. Mix thoroughly
3. Strain through fine mesh to remove any particles
4. The solution is now ready for application

Application Method:

1. Transfer solution to spray bottle or garden sprayer
2. Spray thoroughly on leaves and stems
3. Ensure both top and bottom leaf surfaces are covered
4. Apply in early morning or late evening
5. Avoid spraying in extreme heat or direct sunlight
6. Light misting is most effective than heavy spraying

Frequency of Application:

- Apply once every 7-10 days
- Continue throughout flowering and fruiting season
- First application at flowering stage
- Subsequent applications every 7-10 days

Expected Results:

- Increased flower production within 7-10 days
- Better fruit and seed set
- Higher overall yield
- Improved plant vigor
- Healthier plant growth

Benefits:

- Completely organic and safe
- Cost-effective using household ingredients
- No chemical residues
- Safe for edible crops
- Improves plant immunity
- Enhances natural plant growth hormones
- Increases micronutrient absorption

Why This Works:

- Curd: Provides beneficial bacteria and micronutrients
- Heeng (Asafoetida): Contains sulfur compounds that stimulate plant growth, act as natural pest deterrent, improve nutrient absorption
- Together: Synergistic effect on plant growth and flowering

3.4 Pokkali Cultivation

Sub-sector: Saline-Resistant Farming

Description: Pokkali is a traditional system of paddy cultivation in saline and brackish water areas of Kerala's coastal regions, combined with post-harvest shrimp/prawn rearing.

System:

- Monsoon Period (June-September): Low salinity conditions allow paddy cultivation
- Post-Harvest Period (October-May): Saline water allows shrimp/prawn farming in same field

Benefits:

- Sustainable dual crop system
- No chemical pesticides or fertilizers needed
- Economic benefit from two harvests annually
- Maintains ecosystem balance
- Reduces pressure on forests for cultivation
- Provides protein-rich food source

Traditional Practice:

- Fields prepared during monsoon with fresh water influx
- Rice varieties selected for salinity tolerance
- After rice harvest, sluice gates opened to allow saline water entry
- Shrimp/prawn naturally migrate or are introduced to brackish water
- Post-harvest shrimp farming benefits from organic field fertilization (rice residue)

Precautions: Maintain organic methods; monitor water salinity carefully; use traditional seed varieties.

3.5 Puncta Cultivation

Sub-sector: Wetland Rice Farming

Source: Kuttanad region, AIWC Chirayinkeezhu Branch

Description: Puncta is traditional rice cultivation in Kuttanad region of Kerala, where fields are located below sea level, requiring sophisticated water management systems using bunds and sluice gates.

System:

- Location: Fields below sea level requiring continuous water management
- Timing: Post-monsoon period (October-February)
- Water Management: Bunds (embankments) and sluices control water flow

Benefits:

- High-yield rice production in challenging terrain
- Demonstrates engineering and environmental knowledge
- Creates employment year-round
- Supports food security
- Maintains unique ecosystem
- Prevents waterlogging and salinization through controlled water management

Traditional Practice:

- Bunds constructed and maintained to prevent seawater ingress
- Sluice gates regulate freshwater flow during cultivation
- Canals and waterways manage water distribution
- Traditional practice prevents flooding and maintains soil fertility
- Post-harvest period allows soil regeneration

Precautions: Requires regular maintenance of water management infrastructure; monitor for seawater contamination.

3.6 Kaippad Cultivation

Sub-sector: Brackish Wetland Farming

Source: Kannur/Kasaragod regions, AIWC Chirayinkeezhu Branch

Description: Kaippad is traditional cultivation system in Kannur and Kasaragod districts, featuring rice farming in monsoon season followed by fish farming in brackish water during other seasons.

System:

- Monsoon: Rice cultivated when fresh water from monsoon rainfall floods fields
- Off-Season: Fish in brackish water after rice harvest
- Rain-fed System: Relies entirely on monsoon rainfall, making it sustainable

Benefits:

- Sustainable food production
- No artificial irrigation needed
- Protein from fish complements rice
- Maintains natural aquatic ecosystem
- Supports biodiversity
- Rain-fed system adapts to climate cycles
- Minimal chemical inputs

Traditional Practice:

- Fields prepared for monsoon rice in July-August
- Rice harvested by October-November
- Fields then retain brackish water naturally
- Fish species (mullet, pearl spot) introduced or migrate naturally
- Harvested in March-April as water salinity increases

Precautions: Monsoon-dependent, vulnerable to rainfall variations; requires careful ecological management.

3.7 Jhum Cultivation

Sub-sector: Tribal Shifting Cultivation

Description: Jhum (slash-and-burn) is traditional agricultural practice of tribal communities in Wayanad, featuring rotational cultivation that maintains soil fertility and forest regeneration.

System:

1. Select small forest patch (1-2 acres)
2. Slash vegetation and allow to dry
3. Burn cleared area to enrich soil with ash
4. Grow millets, tubers, and legumes for 2-3 years
5. Leave field fallow for 7-10 years for forest regeneration
6. Rotate to new patch

Crops Grown:

- Millets (finger millet, pearl millet)
- Tubers (cassava, yam)

- Legumes, traditional vegetables, medicinal plants

Benefits:

- Maintains soil fertility naturally
- Prevents monoculture and pest buildup
- Supports forest biodiversity
- Sustainable food production
- No chemical inputs
- Provides livelihood for tribal communities

Precautions: Avoid over-clearing; maintain traditional rotation periods; ensure regeneration between cultivation cycles; comply with forest regulations.

3.8 Seed Preservation Techniques

Sub-sector: Native Variety Conservation

Description: Traditional methods of seed storage and preservation that maintain viability and protect against pests, ensuring local crop varieties continue through generations.

Traditional Dry Storage Method:

1. Harvest seeds when fully mature and dry
2. Dry further in shade for 2-3 weeks until brittle
3. Store in traditional containers (Urali, Pathayam)
4. Add protective herbs and materials

Protective Materials:

- Neem Leaves: Natural insecticide, repels pests
- Turmeric Powder: Antimicrobial properties, prevents fungal growth
- Ash: Absorbs moisture, provides protection
- Dried Chili: Insect repellent

Preparation:

1. Layer neem leaves at bottom of storage container
2. Place dried seeds in middle layer
3. Add turmeric powder and ash mixture
4. Top with more neem leaves and dried chili
5. Seal container tightly

3.9 Seed Preservation Techniques

Source of Knowledge: Shri P. V. Benchamin, Kerala Agricultural University

Description & Benefits

These guidelines provide essential practices for **healthy organic vegetable cultivation**, focusing on:

- Improved plant growth
- Natural pest management
- Enhanced plant immunity
- Effective use of bio-inputs and eco-friendly care methods

Watering & Spraying Tips

- Water plants **early in the morning** (avoid daytime watering) to support optimal food production.
- Spray bio-pesticides in the **evening or early morning**.
- Always spray on the **underside of leaves**, where pests and eggs are commonly found.
- Store pesticides in **shaded areas** to protect beneficial bacteria and microbes from heat damage.

Support & Upkeep

- Provide support to saplings **loosely**.
- **Never tie supports tightly** around the stem, as this can restrict growth.

General Care Schedule

- **Pseudomonas:** Spray every **8 days** to improve plant health and immunity.
- **Bio-input rotation:** Rotate **Neem oil, Beauveria, Verticillium, and Trichoderma** every **15 days**.
- **Cow urine solution:** Apply **100 ml per litre of water** every **2–3 days** to enhance growth.
- **Hydrogen Peroxide:** Apply **5 ml per litre of water** once every **month**.
- **Copper Oxchloride:** Apply **3 g per litre of water** once every **two months** for fungal control.
- **Pruning:** Remove unwanted leaves and branches **once a month**.
- **Limestone powder:**
 - Add **30 g per grow bag**
 - Apply to **wet soil**, away from plant roots
 - Do **not add manure for 5 days** after application
- **Leaf washing:** Regularly wash leaves to reduce pest infestation naturally.

Precautions

- Follow **recommended timings strictly** for best results.
- Use **high-quality bio-inputs** from reliable sources.
- Avoid overuse or mixing of inputs without proper intervals.

4. ENVIRONMENTAL MANAGEMENT & CLIMATE CHANGE

4.1 Traditional Composting Methods

4.1.1 Pit Composting (Kuzhi Ilachil)

Source of Knowledge: Menon, A., & Babu, R. (2009). *Sustainable agriculture practices in Kerala: A historical overview. Journal of Kerala Studies*; oral traditions

Description & Benefits:

Pit composting is a traditional method where leftover vegetable peels, coconut husks, and dried leaves are collected and placed in pits. This method facilitates aerobic decomposition, resulting in nutrient-rich manure.

Traditional Implementation in Kerala:

Pit Construction:

1. Dig pits in convenient locations (garden corners, away from living areas).
2. Depth: 1-1.5 feet
3. Width: 2-3 feet square or circular
4. Multiple pits can be created for continuous composting

Materials to Compost:

- Vegetable peels and scraps
- Coconut husks (cut into small pieces)
- Dried leaves
- Grass clippings
- Fallen branches
- Paper and cardboard (shredded)
- Coffee grounds
- Tea leaves

Materials to Avoid:

- Meat and fish
- Dairy products
- Oils and fats
- Diseased plants
- Weeds with seeds

Composting Process:

Step 1: Collection

- Collect kitchen waste regularly
- Keep separate collection container
- Chop large items into smaller pieces (accelerates decomposition)

Step 2: Layering

1. Start with a layer of coarse material at pit bottom (coconut husks, twigs)—about 6 inches
2. Add alternating layers of green waste (kitchen scraps) and brown waste (dried leaves, paper)
3. Layer ratio: 1 part green to 2-3 parts brown material
4. Each layer: 4-6 inches

Step 3: Moisture and Air

- Maintain moisture like a wrung-out sponge (not soggy)
- Turn the pile every 2-3 weeks with a stick or fork
- Turning aerates and accelerates decomposition
- Allows oxygen penetration throughout

Step 4: Decomposition Timeline:

- 2-3 months: Initial decomposition, material breaks down
- 4-6 months: Further breakdown, dark color develops
- 6-12 months: Complete compost, ready for use
- Timeline varies based on:
 - Climate and temperature
 - Material composition
 - Turning frequency
 - Moisture levels

Using Finished Compost:

- Color: Dark brown to black
- Texture: Crumbly, humus-like
- Smell: Earthy, pleasant
- Ready when unrecognizable original material remains
- Mix with garden soil (1:1 ratio initially)
- Top dressing for existing plants
- Amendment for new garden beds

Benefits:

- Zero waste approach
- Reduces landfill burden
- Creates valuable soil amendment
- Improves soil structure
- Enhances water retention

- Supports beneficial soil microorganisms
- Free fertilizer for garden
- Reduces need for chemical inputs
- Sustainable gardening practice

Advantages of Pit Composting:

- Space-efficient
- Requires minimal equipment
- No cost
- Integrated with gardening space
- Community can be involved
- Teaches environmental responsibility

4.1.2 Leaf Composting (Pala Vithal)

Source of Knowledge: Traditional Kerala practice, oral traditions

Description & Benefits:

In homesteads and temple surroundings, dried leaves are swept into corner heaps. This method promotes natural decomposition and enriches soil with organic matter over time.

Traditional Implementation:

Collection and Placement:

1. Sweep dried leaves from gardens, homesteads, and temple areas.
2. Create heaps in designated corner areas.
3. Select location away from living spaces.
4. Keep heaps covered with additional dry leaves to contain.

Materials for Leaf Composting:

- Dried leaves from all trees
- Coconut leaves and fronds
- Palm leaves
- Tamarind leaves
- Neem leaves
- Mango leaves
- Any deciduous tree leaves

Decomposition Process:

Timeline:

- 3-6 months: Initial decomposition, leaves break down

- 6-12 months: Further decomposition, brown color
- 12-18 months: Complete compost, ready for use

Maintaining the Heap:

- Turn heap occasionally with a fork (optional but speeds decomposition)
- Keep moist during dry season (not waterlogged)
- Cover to reduce water loss
- Allow natural processes to occur

Using Leaf Compost:

- Rich in carbon and organic matter
- Excellent soil amendment
- Improves soil structure
- Enhances water-holding capacity
- Use in vegetable and flower gardens
- Top dressing for plants
- Mulching material

Benefits:

- Utilizes natural waste
- Zero external input required
- Enriches soil over time
- Improves long-term soil health
- Sustainable practice
- Cost-free
- Reduces landfill waste

Advantages:

- Simple process requiring no effort
- Passive decomposition (no turning required)
- Space for composting usually available
- Integrates with natural cycles
- Community and family involvement
- Educational for children

4.1.3 Panchagavya: The Five Products of the Cow

Source of Knowledge: Traditional Ayurvedic and agricultural knowledge

Description & Benefits:

Panchagavya is a traditional preparation made by mixing five products of the cow: dung, urine, milk, curd, and ghee. Used as a natural pesticide and plant growth enhancer, it reflects deep ecological wisdom.

The Five Components:

1. Cow Dung:
 - Rich in microorganisms
 - Contains beneficial bacteria
 - Source of nutrients
 - Improves soil structure
 2. Cow Urine:
 - Contains ammonia and other compounds
 - Natural pesticide properties
 - Bioactive compounds
 - Nutrient content
 3. Milk:
 - Provides proteins and minerals
 - Supports plant growth
 - Anti-fungal properties
 - Nutritional value for plants
 4. Curd (Yogurt):
 - Contains beneficial bacteria (probiotics)
 - Aids nutrient absorption
 - Enhances soil microbes
 - Fermented properties
 5. Ghee:
 - Provides essential fats
 - Anti-inflammatory properties
 - Carries other components into soil
 - Medicinal properties
- Traditional Preparation:
- Ingredients:
- Cow dung: 1 kg (preferably fresh)

- Cow urine: 5 liters
- Cow milk: 2 liters
- Cow curd: 2 liters (beaten until smooth)
- Cow ghee: 1 kg
- Optional additions: Jaggery (500g), bananas (12), coconut water (1 liter)

Preparation Procedure:

Step 1: Base Preparation

1. Take a large earthen pot (clay pot preferred).
2. Add cow dung.
3. Pour cow urine over dung.
4. Mix thoroughly.

Step 2: Adding Components

1. Add milk and mix well.
2. Add beaten curd and mix thoroughly.
3. Add ghee and stir until integrated.
4. If using optional additions:
 - Dissolve jaggery in water and add
 - Mash bananas and add
 - Add coconut water

Step 3: Fermentation

1. Cover pot loosely (allow air circulation but prevent contamination).
2. Keep in shade at room temperature.
3. Ferment for 7 days.
4. Stir daily using wooden stick.

Step 4: Completion

- After 7 days, the mixture is ready
- Color: Brown to dark brown
- Smell: Earthy, fermented aroma
- Consistency: Slightly thick liquid

Application Methods:

For Plant Growth:

1. Dilute: 1 part Panchagavya to 9 parts water.
2. Spray on plants using garden sprayer.

3. Apply early morning or late evening.
4. Repeat every 7-14 days.
5. Apply to both leaf surfaces.

For Soil Amendment:

1. Dilute: 1 part to 10 parts water.
2. Pour around plant base (avoid direct contact with stems).
3. Water the plant afterward.
4. Apply once monthly.

for Pest Management:

1. Dilute: 1 part to 3 parts water.
2. Spray thoroughly for pest control.
3. Apply every 7 days if needed.
4. Continue until pests are controlled.

Benefits:

Pest Control:

- Natural insecticide properties
- Repels common garden pests
- Prevents fungal infections
- Non-toxic to beneficial insects

Plant Growth:

- Enhances nutrient uptake
- Promotes healthy growth
- Increases flowering and fruiting
- Strengthens plant immune system
- Improves crop yield

Soil Health:

- Adds beneficial microorganisms
- Improves soil structure
- Enhances organic matter
- Promotes earthworm activity
- Improves long-term soil fertility

Environmental Benefits:

- Completely organic

- Non-toxic
- Biodegradable
- Supports sustainable farming
- Reduces chemical dependency
- Supports ecosystem health

Storage:

- Keep in cool, shaded location
- In glass or earthen containers
- Lasts up to 6 months when properly stored
- Can be prepared fresh in batches

Precautions:

- Use only from healthy cows
- Ensure cow products are from trustworthy source
- Some individuals may develop skin sensitivity—test first
- Always dilute before applying
- Avoid contact with eyes

4.1.4 Heat and weather Management

Source of knowledge: Dr. Anshu Sharma, SEEDS, New Delhi.

- Use White paint, or heat retardant paint (now available in the market), on roofs to make homes cool.
- Traditionally, in summer, old earthen pots were kept on roofs to create shade and reduce heating.
- In Terrace gardens, plants on the Western side wall will get maximum afternoon heat, in the summers
- Insulating overhead tanks with jute bags or sacks is a cost-effective way of getting cold water in the taps in summer.
- Choose foods which are appropriate for the weather. Cooling food and drinks in summer like buttermilk if in the south and Sattoo (gram flour ground and turned into porridge) in the northern parts. In winters, take jaggery and nuts.

4.2 Sacred Groves and Biodiversity

4.2.1 Kavau: Sacred Groves as Biodiversity Hotspots

Source of Knowledge: Parthasarathy, N., & Kanda, N.B. (2019). *Sacred Groves: Potential for Biodiversity and Bioresource Management*. Springer

Description & Benefits:

Sacred groves, known locally as Kavu, are protected areas of natural vegetation holding significant religious and cultural importance in Kerala. These groves are micro-ecosystems rich in biodiversity and serve crucial environmental functions.

What are Sacred Groves?:

- Natural forest patches protected for religious reasons
- Associated with local deities and spiritual traditions
- Often found in temple premises or community spaces
- Managed and protected by local communities
- Pre-date modern conservation efforts by centuries

Cultural and Spiritual Significance:

- Connected to worship of local deities
- Central to community identity
- Integrated with seasonal festivals and rituals
- Repository of traditional knowledge
- Symbols of human-nature relationship

Biodiversity Protection:

Flora and Fauna Protected:

- Endemic plant species (found nowhere else)
- Medicinal plants used in traditional medicine
- Fruit and nut-bearing trees
- Timber and specialty wood trees
- Birds and small animals
- Insects and pollinators
- Underground fungal networks

Examples of Plant Species:

- Various medicinal herbs
- Ancient trees of significant size
- Climbing vines with medicinal properties
- Root systems supporting biodiversity
- Understory plants adapted to shade

Environmental Functions:

1. Water Conservation:
 - Protect natural water sources
 - Maintain natural springs and streams
 - Recharge groundwater
 - Prevent erosion and water loss
 - Support surrounding water systems
2. Climate Regulation:
 - Act as carbon sinks (store carbon)
 - Reduce local temperature
 - Increase humidity
 - Moderate weather patterns
 - Contribute to climate change mitigation
3. Soil Conservation:
 - Prevent soil erosion
 - Maintain soil fertility
 - Protect top soil
 - Reduce landslides
 - Preserve soil structure
4. Biodiversity Maintenance:
 - Protect endemic species
 - Support food chains
 - Maintain genetic diversity
 - Preserve evolutionary potential
 - Protect specialized habitat species

Management Practices:

Traditional Rituals and Ceremonies:

- Connected to conservation efforts
- Foster community involvement
- Transmit ecological knowledge
- Maintain cultural continuity
- Strengthen community bonds

Community Involvement:

- Local communities manage groves

- Ceremonial and maintenance activities
- Knowledge transmission to younger generations
- Decision-making based on traditional rules
- Sustainable harvesting practices

Rules and Restrictions:

- Sacred groves have local rules:
- Limits on tree felling
- Restrictions on grazing
- Regulated harvesting of specific plants
- Seasonal prohibitions
- Rules on waste disposal

Protection Mechanisms:

- Religious significance ensures protection
- Community enforcement of rules
- Social sanctions against violations
- Traditional leadership oversees management
- Integration with cultural practices

Threats and Conservation:

Current Threats:

- Development pressures
- Urban expansion
- Agricultural intensification
- Loss of traditional knowledge
- Reduced community involvement
- Climate change impacts

Conservation Efforts:

- Documentation of species
- Linking with modern conservation
- Scientific study of practices
- Support for traditional management
- Integration with education
- Recognition as cultural heritage

Benefits Beyond Biodiversity:

Health and Nutrition:

- Source of medicinal plants
- Traditional healing knowledge
- Nutritional plants and fruits
- Mental health benefits (peaceful spaces)
- Stress reduction for visitors

Cultural and Spiritual:

- Spiritual center for communities
- Cultural identity maintenance
- Generational knowledge transfer
- Festival and celebration spaces
- Connection to ancestors and traditions

Economic:

- Sustainable harvesting of non-timber products
- Medicinal plant trade
- Eco-tourism potential
- Traditional knowledge commercialization
- Employment in conservation

Existence Across India:

- Similar practices with different names:
- Northern India: Deodhar (sacred forests)
- Western India: Van (sacred woodland)
- Southern India: Kavu, Kaveri
- Found across most Indian states
- Common in tribal regions
- Integrated with indigenous management systems

Examples from Kerala:

- Nanthancode Kavu associated with local temple
- Various kavus throughout Kerala
- Ranging from small temple groves to large forests
- Supporting thousands of species

Learning from Sacred Groves:

1. Conservation Model:

- Demonstrates long-term protection
- Shows integration of spiritual and ecological values
- Model for sustainable community management
- Proof that protection works

2. Knowledge System:

- Repository of traditional ecological knowledge
- Ethnobotanical knowledge
- Sustainable harvesting practices
- Seasonal understanding of ecosystems

3. Community Model:

- Bottom-up conservation approach
- Integration with cultural values
- Community participation
- Social enforcement of rules

Supporting Sacred Groves:

What Communities Can Do:

- Participate in traditional ceremonies
- Learn about local grove flora and fauna
- Support community conservation efforts
- Transmit knowledge to younger generation
- Respect local rules and regulations
- Support traditional management practices

What Government Can Do:

- Recognize legal status of sacred groves
- Support community-led management
- Provide resources for maintenance
- Integrate with biodiversity programs
- Support scientific documentation
- Facilitate knowledge exchange

What Scientists Can Do:

- Document species and practices
- Study effectiveness of traditional management
- Combine traditional and scientific knowledge

- Publish findings for wider understanding
- Support capacity building
- Collaborate with communities

5. TIPS & KNOWLEDGE FROM DAILY LIFE EXPERIENCES

5.1 Architecture and Lifestyle: Comfort and Health Balance

5.1.1 Reducing Excessive Comfort for Health and Vitality

Source of Knowledge: Personal observation and architectural reflection from Ladakh village living

Description & Benefits:

Modern life is engineered for ease with elevators, remote-controlled everything, temperature-controlled environments, and on-demand services. However, this excessive comfort may be contributing to chronic disease epidemic. The absence of movement and challenge may be slowly making us sick.

Modern Comfort Crisis:

Current Reality:

- Heart disease, diabetes, hypertension, high cholesterol common
- Chronic diseases starting in twenties and thirties (not previously)
- Illness has become lifestyle norm
- People dependent on vehicles for short distances
- Electronic devices do thinking and physical tasks
- Every inconvenience designed out of life

Questions to Consider:

- What changed to cause this disease shift?
- Is it just diet and genetics?
- What role does a sedentary lifestyle play?
- What happens when movement is eliminated?
- Can we design for health instead of mere comfort?

Built Environment Impact:

- Architectural design shapes movement patterns
- Buildings determine daily physical activity
- Layout affects energy expenditure
- Design influences health outcomes
- Environment shapes behavior and biology

Case Study: Village Life in Ladakh (Ayee)

Traditional Setting:

- No modern architectural standards
- Ladders connect houses
- Toilets 10-15 feet away from living areas
- Uneven footpaths
- Shortcuts over stone compounds
- Walking on narrow ridges
- Community living with shared spaces

Physical Demands:

- Daily climbing and stairs
- Regular walking and movement
- Balance work on uneven terrain
- Community engagement requiring travel
- Physical work for daily needs
- Interaction with natural environment

Health Outcomes:

- 70-year-olds climbing ladders without hesitation
- Toddlers navigating boulders with natural balance
- Community members self-reliant until last breath
- No assistance needed for mobility in elderly
- Movement unrestricted by fear
- Familiarity with challenge creating resilience

Key Observation:

The environment never stopped asking bodies to be active. There was no design toward sedentary ease. Instead, living demanded regular engagement and movement. The result: vitality and health in old age.

Design Principles for Health:

Reconsider "Convenience":

- Does easier always mean better?
- What is the long-term cost of short-term ease?
- How does convenience affect health?
- Can design support health instead of undermining it?

Movement as Medicine:

- Movement is essential for health
- Joints need challenge to stay functional
- Muscles need engagement to stay strong
- Brain needs novelty and balance work
- Cardiovascular system needs regular activity

Strategic "Inconvenience":

- Walking for necessities instead of driving
- Stairs instead of elevators
- Manual tasks instead of automated
- Outdoor connection instead of controlled climate
- Social engagement instead of isolated convenience

Elements to Reconsider in Design:

1. Circulation:

- Are distances walkable?
- Are stairs integrated naturally?
- Does design encourage movement?
- Are shortcuts that require engagement?

2. Temperature Control:

- Comfort temperature varies seasonally
- Full AC eliminates thermal stress (which maintains fitness)
- Natural ventilation requires adaptation
- Seasonal variation supports metabolic health

3. Manual Tasks:

- Automation eliminates movement
- Manual work can be reframed as exercise
- Opening windows provides engagement
- Gardening provides daily activity

4. Social Spaces:

- Design for community gathering
- Encourage regular interaction
- Create destinations requiring walking
- Support natural social engagement

Implications for Individual Health:

Lifestyle Modifications:

- Reduce elevator use, use stairs
- Walk for nearby necessities
- Maintain gardens and physical tasks
- Engage with community regularly
- Embrace seasonal temperature variation
- Challenge balance and agility regularly

Home Design Considerations:

- Stairs in homes encourage movement
- Distributed living spaces require walking
- Separating functions creates daily movement
- Kitchen not immediately adjacent to bedroom
- External needs create daily engagement

Long-Term Health Benefits:

- Maintained mobility in aging
- Lower chronic disease risk
- Better cardiovascular health
- Stronger muscles and bones
- Improved mental health
- Greater life satisfaction and independence
- Reduced healthcare needs

Additional Household Practices:

- Newspaper Wrapping: Wrap vegetables/fruits in clean old newspaper before storage. Absorbs moisture, prevents spoilage (3-4 extra days shelf life).
- Coconut Shell Ash: Burn coconut shells to ash, sprinkle around plant bases. Repels crawling insects (ants, snails) naturally.

Garhwali/Garhwali Community Practices:

- Rock salt (Sendha namak) used exclusively during fasts – naturally iodized, digestive
- Millet rotis (koda, jhangora, mandua) daily staple – high fiber, sustained energy, climate resilient crop
- Buckwheat (kuttu) preparations during Navratri – gluten-free, protein-rich
- Aloo-jeera (potato-cumin) fasting recipe – sattvic, light on stomach

Wild Food Foraging:

- Seasonal wild greens (palak, chaulai, jungli saag) harvested May-June
- Natural diuretic, rich in iron/vitamins, free medicine from nature
- Gucchi mushrooms (wild morels) – expensive delicacy, seasonal April-May
- Fiddlehead ferns (dhup chhopri) – protein source, cooked as saag

Preservation Techniques:

- Achaar (pickles) made from seasonal vegetables – year-round nutrition
- Dried wild greens stored for winter (when fresh greens scarce)
- Fermented bamboo shoots (local delicacy) – probiotic, long shelf life

Water & Milk Practices:

- Water stored in copper vessels overnight – antibacterial properties
- Fresh cow milk boiled with tulsi leaves daily – immunity booster
- Clay pots (matka) for water cooling – natural minerals added

Paradox of Modern Design:

We have solved inconvenience but created fragility. We have engineered away challenges but lost resilience.

Forward Thinking:

As architects, designers, and individuals, we must ask: Are we designing for immediate comfort or long-term vitality? Can we create environments that support health through movement and challenge? How can we balance accessibility with maintaining the physical demands that keep humans healthy?

Conclusion:

This compilation represents generations of accumulated wisdom and practical knowledge developed by communities across India. The practices documented here demonstrate a sophisticated understanding of human health, sustainable agriculture, and environmental stewardship that continues to be relevant in our modern context.

The integration of these traditional practices with contemporary scientific understanding offers pathways toward more sustainable, healthier ways of living that honor both human wellness and environmental preservation.

As we face contemporary challenges of health, sustainability, and environmental change, this traditional knowledge provides valuable insights and time-tested solutions that have sustained communities for generations.



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