HERBAL TEAS

HERBAL PRODUCTS

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Herbal Products

• Tea

- Tablet
- Capsule
- Dragee

• The most common used constituent to prepare herbal products using herbal drugs is water and the most frequent formulation is tea.

Herbal Tea

A type of formulation,

prepared using plants/plant parts

include bioactive substances

- daily used
 - for prophylaxis
 - \circ as remedy
 - as supplement to the treatment

Herbal Teas

- The most favorable and safest way to utilize herbs
- Neither ineffective nor a miracle
- Beneficals depend on the period and frequency of consumption.
- Not only beneficial effects but also advers effects
- Different parts of a plant contains different types of compounds, so root/flower/fruit/leaf of a plant may possess different activities.

Types of Herbal Teas

• According to the number of constituents

• Single herb tea

(chamomile tea, linden tea, rose hip tea etc.)

• Mixtures (blend tea)

The principle of phytotherapy in Europe; max 4-7 herbs

Types of Herbal Teas

• According to the form of herbs

Coarsely/fine cut herbs

Tea-bag teas

Soluble teas

Tea-Bag Teas

- Herbal material/mixture is placed in a bag which functions as a filter.
- 80% of herbal teas are sold in this form.
- Using tea-bags is an advantage in terms of adjustment of the dosage.

Tea-Bag Teas

Disadvantages of tea-bag teas;

 The area of the particule surface is larger leading to the higher risk of oxidation

- Volatile and aromatic compounds can be lost
- Quality control problems

Soluble Teas

- Dried plant extract is covered with an exipient such as lactose and cellulose.
- Ratio of plant extract ranges between 8-50%.
- Cautiously use in diabetics and infants due to its carbohydrate content

Infusion

- Add hot water (≈ 80°C)onto crushed drug and stir
- Steep for 5-10 min. then filter
- Prepare freshly before each use
- Dosage: ≈ 100 ml water for 2 g drug
 - 1 tsp. chamomile \approx 1.5 g
 - 1 tsp. root/bark \approx 4.5 g

Decoction

- Add cold water on to crushed drug
- Heat until boiling
- Simmer for 5-10 min. then filter when hot
- Prepare freshly before each use
- \circ Dosage: ≈ 100 ml water for 2 g drug

Cold Maceration

- Cover drug using tap water
- Leave for 6-8 hours at room temperature then filter
- Prone to contamination
- Especially applied for the drugs with high mucilage content, such as marsh mallow, linseed and Iceland moss)

Utilization of Herbal Teas

- Generally advised to drink 1 cup of tea 3 times a day
- May be consumed in the morning with an empty stomach and before sleep
- Laxative and sedative teas should be drunk at night.
- Teas used for the stimulation of digestion should be consumed right after meals or when needed.
- Apetite-stimulant teas should be drunk about 30 min. before mealtime.
- Diaphoretic teas should be taken hot and when the patient is in bed to see the effect.
- Diuretic teas should be drunk in the morning.

Warnings

- Doctor consultancy should be provided to use teas which will be consumed to support the treatment of diabetes, hipertansion, cancer and heart diseases.
- Patients should pay attention to dosage and consumption period.
- Attention should be paid for the utilization of infants and children as well as consumption during pregnancy and lactation periods.

Warnings

- It should be kept in mind that herbal preparations may possess some adverse or toxic effects.
- Possible interactions with synthetic drugs should be concerned.
- All plants can not be consumed as tea, solubility of the compound should be considered.

Adverse Effects and Risks

- Allergic response; Arnica flowers, Viscum album, Psyllium
- Gastrointestinal disorders; Folia Uva-ursi, Alchemilla, Tormentilla due to tannin content; Gentiana, Taraxacum, Herba Absinthi – due to bitter compound content
- Electrolyte loss and potassium deficiency; Antrachinone containing and laxative drugs

Drug Interactions

• Teas containing tannin;

may retard the absorbtion of sedative, hypnotic and tranquillizer drugs

may decrase the bioavailibility of antidiabetic drugs

• may hinder the absorbtion of Fe, Ca and Mg.

 Herbs containing pyrrolizidine alkaloids (such as Tussilago, Sympytum, Petasides, Senecio) are not allowed due to their hepatotoxic and hepatocarcinogenic effects.

- Determination of the formula
 - Personal parameters (allergies, chronic diseases, drugs used etc.)
 - Herbs with moderate activity is preffered to be used for tea preparation.
 - FORTE GROUP (Strong effective) not used
 - MEZZO FORTE GROUP (medium-strong effective) carefully used
- Using herbal material in pharmaceutical quality
- Accuracy of weight

Shred/crush/grind herbal material

- Fruits/seeds containing essential oil should be crushed prior to preparation.
- Drugs containing saponin should be in form of fine powder.
- Mix the components appropriately
- Appropriate package and lable

E.g. Anxiety and Sleep Disorders

• Valeriana officinalis (Valerian)

- Valepotriates, essential oil, sesquiterpenes
- Anxiety and sleep disorders due to anxiety
- Infusion prepared using 2-3 g drug/600 mg extract, 2 hours before sleep
- Passiflora incarnata (Passion flower)
 - Flavonoids
 - 4-8 g flower/150-300 mg extract/ 5ml/700 mg syrup

E.g. Anxiety and Sleep Disorders

• Melissa officinalis (Balm leaf)

• Essential oil

- $\circ\,$ 1.4-4.5 g (1/2 tsp.) as infusion 3 times a day
- Lavandula sp. (Lavander)
 - Essential oil
 - 1/2 tsp. or 2-4 drops essential oil, on a cube of sugar

Sleep Disorders

Radix Valerianae	15 g
Flos Citri	15 g
Folia Melissae	15 g
Lupuli Strobuli	15 g

- 12 tea-bags (5 g in an tea-bag)
- Preparation and usage:
 - $\circ~250$ ml hot water for 5 g of blend
 - $\circ\,$ before sleep

Cold and Flu

Matricariae flos20Salviae Triloba folium20Origani herba20