

Why offer a class on diffusing essential oils?

- Diffusing essential oils in one's environment has continued to be a popular 'doorway' into the world of aromatherapy!
- However, Confusion abounds with different types of diffusors and most likely, different qualities of product.
- Who to trust?





What is diffusion?

- the state of being spread out or transmitted especially by contact: the action of <u>diffusing</u> (to pour out and permit or cause to spread freely)
- https://www.merriam-webster.com/aictionary/diffuse#i
- Diffusion, in our case, refers to a method of transmitting essential oils (volatile components) into the air within a specified area and for a specified reason/goal.

Diffusion vs Inhalation Diffusion (active) Resulve Diffusion Unglazed clay or Terracotta pot or pendant diffuser Ultrasonic diffuser Ultrasonic diffuser Plug-in diffuser Direct palm inhalation Candle diffuser AT necklace (with pad) Electric diffuser Reed diffuser Fan diffuser Felt pads or flowers, etc.

The Nebulizing Diffuser

- a hand blown glass expansion chamber (nebulizer) with special internal tubes and baffles.
- As air is pushed from the pump into the glass chamber the essential oil 'breaks' against the baffles where by the essential oil is discharged into the atmosphere in a fine mist of micro droplets.



How to use Nebulizing Diffuser

- Place 1-4 milliliters (20-80 drops) of essential oil into the glass basin or other holding area.
- Turn the diffusor on.
- The standard recommended time for a nebulizing diffusor is 10-30 minutes then off for 1-4 hours. Repeat as
 desired.
- The ionized micro droplets will stay suspended in the air during the time the diffusor is off.

NOTE: The nebulizer differs greatly from other diffusers and is considered to be a more appropriate tool to disperse essential ais into traditional and nontraditional healthcare environments (e.g. hospice).

Due to the differences in nebulizers available, be sure to follow the instructions for the specific diffuser you are using.

How to Clean Nebulizing Diffuser

- 1. Remove glass piece from base
- 2. Fill bowl with rubbing alcohol or 70% alcohol
- 3. Place glass pieces in bowl and allow to soak for a couple of hours
- 5. Allow to dry
- 6. It is now ready to use again.

 $\textbf{NOTE:} \ \text{It is a good idea to run alcohol through diffuser while running to clean fine glass inside main glass piece.}$



The Ultrasonic Diffusor

What is ultrasonic?

An ultrasonic diffuser uses ultrasonic vibrations to disperse the essential oils as tiny microparticles that enter the environment as a cool aromatic mist. It uses water as the medium to hold drops of essential oils.



· Insight: The mist is not steam – which implies heat.

How to use Ultrasonic Diffuser

- 1. Remove cover of unit.
- Add water to the container until it reaches the water marker.
- 3. Add essential oils or synergy into the
- Replace the cover.
- 5. Connect unit to a power source.
- 6. Turn diffuser on.
- 7. Select desired time setting for the mist.
- LED light can be turned off independently.
- 9. Enjoy!



Wait 1 to 4 hours. Repeat as desired.

Hydrosols and the	Ultrasonic	Diffusor
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How to Clean Ultrasonic Diffuser

- 1. Wash with warm soapy water
- Dry thoroughly
 Wipe out with 70% alcohol or rubbing alcohol
- 4. It is now ready for use

The Candle or Electric Diffusor

• A candle or electric diffuser gently heats water with essential oils (or synergy). As the water heats, aromatics are slowly released into the environment.



How to use Candle or Electric Diffuser

- Fill 'basin' with water
 Add 5-15 drops of essential oil or synergy
 Light candle or turn on (if electric)
- 4. As water warms, aromatics will waft into the air

The standard recommended time for a candle or electric diffusor is 60-90 minutes and then off for 2-4 hours. If desired, one can turn on again and repeat.

Do not leave candle unattended when in use.



How to Clean Candle or Electric Diffuser

- \circ Use 70% alcohol or rubbing alcohol to soak basin if any 'resin' has built up or simply to wipe out
- Can also wash with warm/hot soapy water.
- Then wipe down with alcohol to sterilize.
- It is now ready to use.



The Fan Diffuser

- Fan diffusers work by slowing warming filtered plates that then release the aromatics that have been placed on a pad.
- Place 5-10 drops essential oil or synergy onto pad.
- 2. Place pad in unit.
- 3. Turn unit on.



Other ways to diffuse eo's into the environment

- Aromatic Spritzer
- Boiling water
- Humidifier (not all humidifiers work with eo's)

Passive Diffusion

- Unglazed clay or Terracotta pot or pendant diffuser
- · AT necklace (with pad)
- Felt pads or flowers, etc.
- · Plug-in diffuser
- · Reed diffuser



Why is there a time frame for diffusing?

- Adaptation is when the perceived intensity of a smell declines after one has been exposed to it for some time. The smell itself does not disoppear rather the individual has become habituated to it.
- Habituation, on the other hand, is a decrease in responsiveness to repeated or prolonged stimulation. Habituation and adaptation allow sensory systems to filter background or currently nonsignificant stimuli, while maintaining responsiveness to novel stimuli.

- Over Using Diffusion

 The nervous system may begin to react in the opposite direction caused by over-stimulation. Presentation may include: intability, headache, inability or difficulty concentrating, light-headachess, either sleepiness or over stimulated (agilation). The respiratory system may be negatively impacted. Presentation may include: intalian or of the eyes and upper respiratory mucoso intalian, with possible lingling, burning, or slingling sensations.

Why Diffuse Essential Oils

- ∘To Support
- Emotional Well-being
- ${\scriptstyle \circ}$ Immunity and Wellness
- Support Respiratory Health

As we inhale through our noses

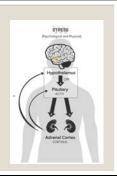
Aromatics go directly into the limbic part of the brain!

Insight: Sniffing increases the airflow thru to the upper sinuses, hence increasing our perception of an aroma.



Impact of Aromatics

- Reduce impact of stress
- Build resilience



Impact of Stress

- An increase in heart rate, blood pressure, and breathing rate. Chronic stress may lead to cardiovascular disease.
- $\bullet \quad \textbf{Inhibited digestion.} \ \text{Chronic stress may lead to peptic ulcers and other digestive disorders.}$
- Inhibited growth and reproduction. Chronic stress may lead to low sperm count and low testosterone levels. Sexual behavior and interest may decline.
- Curtailed growth and tissue repair. Chronic stress may lead to slow healing wounds.
- Decrease in sexual drive. During chronic stress, females are less likely to carry pregnancy to full term and are less likely to ovulate. Males have trouble with erections and secrete less testasterone.

Impact of Stress continued

- Inhibited immunity. Chronic stress may lead to increased vulnerability to infectious diseases, e.g., bacteria, fungi.
- Blunted pain perception. Acute stress analgesia is common.
- Loss of cognitive and sensory skills. Chronic stress may result in increasing the rate of loss of brain cells during aging, and hence memory loss increases.



Conditions C	Commonly Caused By, or Made	Worse By, Stress
Angina	Diabetes - Type II Adult Onset	Reduced feelings of pleasure
Anxiety	Depression	Rheumatoid arthritis
Asthma Autoimmune disorders Cancier Cardiovascular disease Common cold Constipation Depression Eating disorders	Headsches/Migraines Immune suppression Irritable bowel syndrome Lack of sexual drive Menstrain regularities Muscle tension Muscular and joint pain Periodontal disease Premenstrail syndrome	Skin disorders: hives, psoriesi reasces, externa Skep disturbances: irsomnia Skow wound healing Substance abuse Succeptibility to infections Ulcers Ulcerative colitis



o	The medical profession does not define a category of illnesses that encompasses the
	effect of allostatic load. Prevention and treatment of stress and its effects on the HPA
	axis are not considered a part of preventative care or treatment for the numerous and
	serious stress-related diseases mentioned throughout this section. Yet the symptoms of
	HPA axis dysregulation are rampant in modern society

HPA axis dysregulation are rampant in modern society.

Aside from overt dysfunction and disease [reproductive disorders and endocrine dysregulation, insulin resistance (syndrome X) and obesity, chronic fatigue syndrome (CFS), cardiovascular disease, osteoporosis, impaired immunity and autoimmune disorders, thyroid disorders, cognitive impairment, chronic anxiety and major depression], Americans are plagued by fatigue and exhaustion, insomnia, emotional frustration, digestive problems, weight problems, menstrual problems, infertility, menopausal problems, headaches, susceptibility to colds, musculaskeletal tension, allegies and asthma, otopic conditions, and numerous other problems that can be related to stress and chronic HPA hyperfunctioning or hypofunctioning.

Romm, A. (2010). Botanical Medicine for Womens Health. St. Louis, MO: Churchill Livingstone.

The Wonders of Our Sense of Smell

- Reduce or alleviate stress and anxiety
- ${\boldsymbol{\cdot}}$ Relieve pain by altering pain perception (in the brain)
- Induce sleep or relaxation
- Increase alertness and overall performance
- Be used for weight control or loss
- Balance and adjust sleep patterns
- Affect and improve mood and increase overall emotional well-being
- Useful stress management tool due to impact on autonomic nervous system
- · Ease physical ailments, particularly stress-related disorders
- Help shape our impressions of self and others



Horrigan observes that the integration of aromatherapy for stress management can yield positive results including:

- A reduction of adrenal corticosteroid output to within normal parameters
- Reduction of blood pressure
- Slowing of heart rate
- · Normalization of respiratory rate
- Improved duration and patterns of sleeping
- · Increased concentration levels
- Immune response modulation
- Improved sense of well-being
- Great ability to cope with immediate or long-term stressors (Resiliency)
- Reduction in muscular tension

Horigan, C. Aromatherapy in the management and freatment of theumatoid and muscularkeletal autoimmune disorders: Fart III. The International Journal of Aromatherapy (2005)15, 15-23.

Supporting Respiratory Health

- o Diffusing essential oils into the air, although beneficial, is not a method we tend to use to 'treat' respiratory issues.
- olt may, however, support respiratory health.



Supporting Immune Health

- Essential oils eliminate pathogens from the air and hence prevent them from affecting us by afflusing antimicrobial and/or immune enhancing sestratiol oils, one is able to reduce airbome and surface microbes thereby reducing the likelihood that they will make one sick.
- Essential oils relieve stress, reduce the impact of stress, or allow for better coping of stress and hence enhance our vitality (immunity) Via the olfactory systems connection to the limbic region of the brain, essential oils may enhance or strengthen the immune response by reducing the impact of stress, inducing a state of relaxation or aftering mood. The so called 'feel good' factor.



Which essential oils are best to diffuse?

- Basil ct. linalool
- Bergamot
- Bergamot mint
- Bitter orange
 Black pepper
 Cape chamomile
- Cardamom

- Chamomile Roman
 Chamomile, German
 Cinnamon leaf
- · Clary sage Copaiba

- Coriander
 Cypress
 Elemi
 Eucalyptus globulus
- Eucalyptus radiata
 Fennel
- Fir Species
- Frankincense
 Geranium

- Hemlock
 Himalayan CEDAR
 Hyssop var. decumbens Inula
 Juniper berry

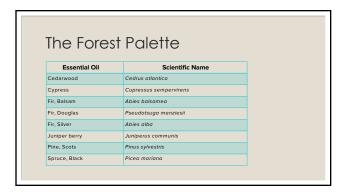
Ginger Grapefruit Green myrtle

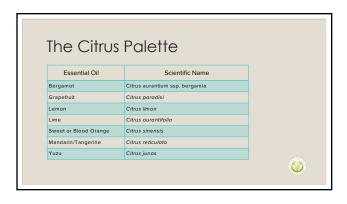
- Katafray

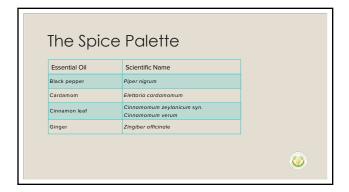


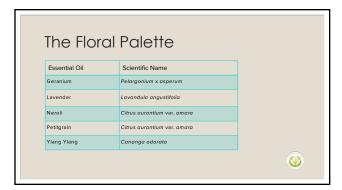
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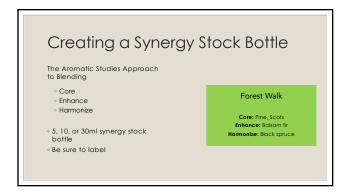
Which essential oils are best to diffuse? · Orange, Sweet ∘ Saro · Palo Santo Spearmint Mandarin Peppermint Spruce, Black · Marjoram, Sweet Petitgrain • Tea tree Monarda Neroli Pine speciesPinon pine Thyme Valerian · Niaouli · Ravintsara · Yarrow · Nutmeg · Ylang ylang











Are there concerns with diffusing essential oils?

- It is entirely possible to diffuse so often that:
 The respiratory system is negatively impacted. Presentation may include: irritation of the eyes and upper respiratory mucosa ritriation, with possible lingling, burning, or stinging sensations.
 The nervous system may begin to react in the apposale direction caused by over-stimulation. Presentation may include; introllity headaches, inability or afficulty concentrating, signiticated headaches, after seepines of over stimulated (agriculture).

Is it safe to diffuse around kids? Infants?

· Kids: YES

Infants: use hydrosols!



Essential Oils not to diffuse (under 10 years of age- Plant Therapy)

- Benzoin Black Seed
- Bock Seed
 Cossia
 Clove Bud, Clove Leaf, Clove Stem
 Gardic
 Ginger Liy
 Honcey Myrite
 Hyssop
 Lemon Leaf
 Lemon Ayrite
 Lemon Ayrite
 Lemon Ayrite
 Lemon Ayrite
 Massacia Bark
 May Chang
 Melisia

- Sweet Verbena
 Oakmoss
 Opopanax
 Oregano
 Peru Balsam
 Saffron

- Saffron
 Sage (Wild Mountain)
 Savary
 Styrax
 Freemoss
 Tuberose
 Tupentine
 Verbena (Lemon)
 Ylang Ylang Complete

Is it safe to diffuse around pets? Good ventilation Cats and dogs are free to move around

Myths?	Let's Talk?
Heat alters essential oil components An exact number of drops	The Impact on Everyone in the Room Practice Discernment Use Critical Thinking



Thank you for attending!	
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