Pelatihan Herbal dan Aromaterapi untuk Mahasiswa STIKES ISA Banjarmasin

Hardi Astuti Witasari

16 Oktober 2024

Major Essential Oils of Indonesia

No.	Commercial Name	Plant Source	Common Indonesian Name	Application/Benefit
1	Agarwood oil	Aquilaria sp	Gaharu	Perfumery, cosmetics, pharmaceutical
2	Bangle oil	Zingiber cassummunar	Bangle	Pharmaceutical
3	Basil oil	Ocimum basillicum	Kemangi	Pharmaceutical, food, bio pesticide
		Ocimum gratissimum	Selasih mekah	Pharmaceutical, food
4	Black pepper oil	Piper nigrum	Lada	Flavoring, antimicrobial
5	Cajuput oil	Melaleuca leucadendron	Kayuputih	Pharmaceutical
6	Calamus oil	Acarus calamus	Jeringau	Pharmaceutical
7	Cananga oil	Canangium odoratum	Kenanga	Aromatherapy, perfumery, cosmetics
8	Cardamon oil	Amomum cardamomum	Kapulaga	Pharmaceutical
9	Celery oil	Apium graveolens	Seledri	Flavoring, pharmaceutical
10	Cinnamon bark oil	Cinnamomum casea	Kayumanis	Flavoring
11	Citronella oil	Cymbopogon nardus	Sereh wangi	Flavoring, perfumery, soap
12	Clausena/Anis oil	Clausena anisata	Clausena	Pharmaceutical, beverages, perfumery, cigarette,
				chewing gums, tooth paste
13	Clove oil	Syzgium aromaticum	Cengkih	Flavoring, perfumery, cigarette
14	Coriander oil	Coriandrum sativum	Ketumbar	Food and pharmaceutical
15	Cornmint oil	Mentha arvensis	Permen	Flavoring, perfumery, tooth paste, candy
16	Cubeb oil	Piper cubeba	Kemukus	Food, beverages, flavoring, soap, detergent, perfumery, pharmaceutical

Curcuma xanthorriza Temulawak Pharmaceutical, beverages	17	Curcuma oil	Curcuma domestica	Kunyit	Flavoring, pharmaceutical
19 Ginger oil Zingiber officinale Jahe Flavoring, pharmaceutical			Curcuma xanthorriza	Temulawak	0.1
19 Ginger oil Zingiber officinale Jahe Flavoring, pharmaceutical	18	Fennel oil	Foeniculum vulgare	Adas	Flavoring, soap, cosmetics, perfumery, pharmaceutical
21Kaempferia oilKaempferia galangaKencurPharmaceutical22Lajagua oilAlpinia malaccensisLajaguaPharmaceutical23Lemongrass oilCymbopogon citratusSereh dapurPharmaceutical, food24Lime oilCitrus hystrixJeruk purutFood and perfumery25Litsea cubebaLitsea cubebaKrangeanPharmaceutical, aromatherapy26Massoia oilCriptocaria massoiaMasoyiFlavoring27Lawang oilCinnamomum cullilawanLawangBalm28Native myrthle oilBackhousia citriodoraSurawungPharmaceutical29Nutmeg oilMyristica fragransPalaFlavoring, cigarette30Palmarosa oilCymbopogon martiniPalmarosaPharmaceutical31Patchoulli oilPogostemon cablinNilamFixative32Piper oilPiter betleSirihPharmaceutical, antiseptic33Rose oilRosa spMawarPerfumery, flavoring, candy, sweetener34Rosemary oilRosmarinus officinaleRosemariPharmaceutical35Sandalwood oilSantalum albumCendanaAntibacterial, antiseptic, disinfectant, expectorant, sedative, stimulant, refrigerant36Turpentine oilPinus merkusiiTusamCosmetics, oil and paint solvent, antiseptic, pharmaceutical37Vetiver oilVetiveria zizanioidesAkar wangiPerfumery, pharmaceutical, flavoring38Wintergreen oilGaultheria	19	Ginger oil	Zingiber officinale	Jahe	
22Lajagua oilAlpinia malaccensisLajaguaPharmaceutical23Lemongrass oilCymbopogon citratusSereh dapurPharmaceutical, food24Lime oilCitrus hystrixJeruk purutFood and perfumery25Litsea cubebaKrangeanPharmaceutical, aromatherapy26Massoia oilCriptocaria massoiaMasoyiFlavoring27Lawang oilCinnamomum cullilawanLawangBalm28Native myrthle oilBackhousia citriodoraSurawungPharmaceutical29Nutmeg oilMyristica fragransPalaFlavoring, cigarette30Palmarosa oilCymbopogon martiniPalmarosaPharmaceutical31Patchoulli oilPogostemon cablinNilamFixative32Piper oilPiter betleSirihPharmaceutical, antiseptic33Rose oilRosa spMawarPerfumery, flavoring, candy, sweetener34Rosemary oilRosmarinus officinaleRosemariPharmaceutical35Sandalwood oilSantalum albumCendanaAntibacterial, antiseptic, disinfectant, expectorant, sedative, stimulant, refrigerant36Turpentine oilPinus merkusiiTusamCosmetics, oil and paint solvent, antiseptic, pharmaceutical37Vetiver oilVetiveria zizanioidesAkar wangiPerfumery, soap, cosmetics, fixative38Wintergreen oilGaultheria fragrantissimaGandapuraPerfumery, pharmaceutical, flavoring	20	Jasmine oil	Jasminum sambac	Melati	Perfumery, aromatherapy, cosmetics
23Lemongrass oilCymbopogon citratusSereh dapurPharmaceutical, food24Lime oilCitrus hystrixJeruk purutFood and perfumery25Litsea cubebaKrangeanPharmaceutical, aromatherapy26Massoia oilCriptocaria massoiaMasoyiFlavoring27Lawang oilCinnamomum cullilawanLawangBalm28Native myrthle oilBackhousia citriodoraSurawungPharmaceutical29Nutmeg oilMyristica fragransPalaFlavoring, cigarette30Palmarosa oilCymbopogon martiniPalmarosaPharmaceutical31Patchoulli oilPogostemon cablinNilamFixative32Piper oilPiter betleSirihPharmaceutical, antiseptic33Rose oilRosa spMawarPerfumery, flavoring, candy, sweetener34Rosemary oilRosmarinus officinaleRosemariPharmaceutical35Sandalwood oilSantalum albumCendanaAntibacterial, antiseptic, disinfectant, expectorant, sedative, stimulant, refrigerant36Turpentine oilPinus merkusiiTusamCosmetics, oil and paint solvent, antiseptic, pharmaceutical37Vetiver oilVetiveria zizanioidesAkar wangiPerfumery, soap, cosmetics, fixative38Wintergreen oilGaultheria fragrantissimaGandapuraPerfumery, pharmaceutical, flavoring	21	Kaempferia oil	Kaempferia galanga	Kencur	Pharmaceutical
24Lime oilCitrus hystrixJeruk purutFood and perfumery25Litsea cubebaLitsea cubebaKrangeanPharmaceutical, aromatherapy26Massoia oilCriptocaria massoiaMasoyiFlavoring27Lawang oilCinnamomum cullilawanLawangBalm28Native myrthle oilBackhousia citriodoraSurawungPharmaceutical29Nutmeg oilMyristica fragransPalaFlavoring, cigarette30Palmarosa oilCymbopogon martiniPalmarosaPharmaceutical31Patchoulli oilPogostemon cablinNilamFixative32Piper oilPiter betleSirihPharmaceutical, antiseptic33Rose oilRosa spMawarPerfumery, flavoring, candy, sweetener34Rosemary oilRosmarinus officinaleRosemariPharmaceutical35Sandalwood oilSantalum albumCendanaAntibacterial, antiseptic, disinfectant, expectorant, sedative, stimulant, refrigerant36Turpentine oilPinus merkusiiTusamCosmetics, oil and paint solvent, antiseptic, pharmaceutical37Vetiver oilVetiveria zizanioidesAkar wangiPerfumery, soap, cosmetics, fixative38Wintergreen oilGaultheria fragrantissimaGandapuraPerfumery, pharmaceutical, flavoring	22	Lajagua oil	Alpinia malaccensis	Lajagua	Pharmaceutical
25Litsea cubebaLitsea cubebaKrangeanPharmaceutical, aromatherapy26Massoia oilCriptocaria massoiaMasoyiFlavoring27Lawang oilCinnamomum cullilawanLawangBalm28Native myrthle oilBackhousia citriodoraSurawungPharmaceutical29Nutmeg oilMyristica fragransPalaFlavoring, cigarette30Palmarosa oilCymbopogon martiniPalmarosaPharmaceutical31Patchoulli oilPogostemon cablinNilamFixative32Piper oilPiter betleSirihPharmaceutical, antiseptic33Rose oilRosa spMawarPerfumery, flavoring, candy, sweetener34Rosemary oilRosmarinus officinaleRosemariPharmaceutical35Sandalwood oilSantalum albumCendanaAntibacterial, antiseptic, disinfectant, expectorant, sedative, stimulant, refrigerant36Turpentine oilPinus merkusiiTusamCosmetics, oil and paint solvent, antiseptic, pharmaceutical37Vetiver oilVetiveria zizanioidesAkar wangiPerfumery, soap, cosmetics, fixative38Wintergreen oilGaultheria fragrantissimaGandapuraPerfumery, pharmaceutical, flavoring	23	Lemongrass oil	Cymbopogon citratus	Sereh dapur	Pharmaceutical, food
26Massoia oilCriptocaria massoiaMasoyiFlavoring27Lawang oilCinnamomum cullilawanLawangBalm28Native myrthle oilBackhousia citriodoraSurawungPharmaceutical29Nutmeg oilMyristica fragransPalaFlavoring, cigarette30Palmarosa oilCymbopogon martiniPalmarosaPharmaceutical31Patchoulli oilPogostemon cablinNilamFixative32Piper oilPiter betleSirihPharmaceutical, antiseptic33Rose oilRosa spMawarPerfumery, flavoring, candy, sweetener34Rosemary oilRosmarinus officinaleRosemariPharmaceutical35Sandalwood oilSantalum albumCendanaAntibacterial, antiseptic, disinfectant, expectorant, sedative, stimulant, refrigerant36Turpentine oilPinus merkusiiTusamCosmetics, oil and paint solvent, antiseptic, pharmaceutical37Vetiver oilVetiveria zizanioidesAkar wangiPerfumery, soap, cosmetics, fixative38Wintergreen oilGaultheria fragrantissimaGandapuraPerfumery, pharmaceutical, flavoring	24	Lime oil	Citrus hystrix	Jeruk purut	Food and perfumery
27Lawang oilCinnamomum culliawanLawangBalm28Native myrthle oilBackhousia citriodoraSurawungPharmaceutical29Nutmeg oilMyristica fragransPalaFlavoring, cigarette30Palmarosa oilCymbopogon martiniPalmarosaPharmaceutical31Patchoulli oilPogostemon cablinNilamFixative32Piper oilPiter betleSirihPharmaceutical, antiseptic33Rose oilRosa spMawarPerfumery, flavoring, candy, sweetener34Rosemary oilRosmarinus officinaleRosemariPharmaceutical35Sandalwood oilSantalum albumCendanaAntibacterial, antiseptic, disinfectant, expectorant, sedative, stimulant, refrigerant36Turpentine oilPinus merkusiiTusamCosmetics, oil and paint solvent, antiseptic, pharmaceutical37Vetiver oilVetiveria zizanioidesAkar wangiPerfumery, soap, cosmetics, fixative38Wintergreen oilGaultheria fragrantissimaGandapuraPerfumery, pharmaceutical, flavoring	25	Litsea cubeba	Litsea cubeba	Krangean	Pharmaceutical, aromatherapy
28Native myrthle oilBackhousia citriodoraSurawungPharmaceutical29Nutmeg oilMyristica fragransPalaFlavoring, cigarette30Palmarosa oilCymbopogon martiniPalmarosaPharmaceutical31Patchoulli oilPogostemon cablinNilamFixative32Piper oilPiter betleSirihPharmaceutical, antiseptic33Rose oilRosa spMawarPerfumery, flavoring, candy, sweetener34Rosemary oilRosmarinus officinaleRosemariPharmaceutical35Sandalwood oilSantalum albumCendanaAntibacterial, antiseptic, disinfectant, expectorant, sedative, stimulant, refrigerant36Turpentine oilPinus merkusiiTusamCosmetics, oil and paint solvent, antiseptic, pharmaceutical37Vetiver oilVetiveria zizanioidesAkar wangiPerfumery, soap, cosmetics, fixative38Wintergreen oilGaultheria fragrantissimaGandapuraPerfumery, pharmaceutical, flavoring	26	Massoia oil	Criptocaria massoia	Masoyi	Flavoring
29Nutmeg oilMyristica fragransPalaFlavoring, cigarette30Palmarosa oilCymbopogon martiniPalmarosaPharmaceutical31Patchoulli oilPogostemon cablinNilamFixative32Piper oilPiter betleSirihPharmaceutical, antiseptic33Rose oilRosa spMawarPerfumery, flavoring, candy, sweetener34Rosemary oilRosmarinus officinaleRosemariPharmaceutical35Sandalwood oilSantalum albumCendanaAntibacterial, antiseptic, disinfectant, expectorant, sedative, stimulant, refrigerant36Turpentine oilPinus merkusiiTusamCosmetics, oil and paint solvent, antiseptic, pharmaceutical37Vetiver oilVetiveria zizanioidesAkar wangiPerfumery, soap, cosmetics, fixative38Wintergreen oilGaultheria fragrantissimaGandapuraPerfumery, pharmaceutical, flavoring	27	Lawang oil	Cinnamomum cullilawan	Lawang	Balm
30	28	Native myrthle oil	Backhousia citriodora	Surawung	Pharmaceutical
31Patchoulli oilPogostemon cablinNilamFixative32Piper oilPiter betleSirihPharmaceutical, antiseptic33Rose oilRosa spMawarPerfumery, flavoring, candy, sweetener34Rosemary oilRosemarinus officinaleRosemariPharmaceutical35Sandalwood oilSantalum albumCendanaAntibacterial, antiseptic, disinfectant, expectorant, sedative, stimulant, refrigerant36Turpentine oilPinus merkusiiTusamCosmetics, oil and paint solvent, antiseptic, pharmaceutical37Vetiver oilVetiveria zizanioidesAkar wangiPerfumery, soap, cosmetics, fixative38Wintergreen oilGaultheria fragrantissimaGandapuraPerfumery, pharmaceutical, flavoring	29	Nutmeg oil	Myristica fragrans	Pala	Flavoring, cigarette
32Piper oilPiter betleSirihPharmaceutical, antiseptic33Rose oilRosa spMawarPerfumery, flavoring, candy, sweetener34Rosemary oilRosemarinus officinaleRosemariPharmaceutical35Sandalwood oilSantalum albumCendanaAntibacterial, antiseptic, disinfectant, expectorant, sedative, stimulant, refrigerant36Turpentine oilPinus merkusiiTusamCosmetics, oil and paint solvent, antiseptic, pharmaceutical37Vetiver oilVetiveria zizanioidesAkar wangiPerfumery, soap, cosmetics, fixative38Wintergreen oilGaultheria fragrantissimaGandapuraPerfumery, pharmaceutical, flavoring	30	Palmarosa oil	Cymbopogon martini	Palmarosa	Pharmaceutical
Rose oil Rosa sp Mawar Perfumery, flavoring, candy, sweetener	31	Patchoulli oil	Pogostemon cablin	Nilam	Fixative
Rosemary oil Rosmarinus officinale Rosemari Pharmaceutical	32	Piper oil	Piter betle	Sirih	Pharmaceutical, antiseptic
35 Sandalwood oil Santalum album Cendana Antibacterial, antiseptic, disinfectant, expectorant, sedative, stimulant, refrigerant 36 Turpentine oil Pinus merkusii Tusam Cosmetics, oil and paint solvent, antiseptic, pharmaceutical 37 Vetiver oil Vetiveria zizanioides Akar wangi Perfumery, soap, cosmetics, fixative 38 Wintergreen oil Gaultheria fragrantissima Gandapura Perfumery, pharmaceutical, flavoring	33	Rose oil	Rosa sp	Mawar	Perfumery, flavoring, candy, sweetener
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pharmaceutical Netiver oil Vetiveria zizanioides Akar wangi Perfumery, soap, cosmetics, fixative Wintergreen oil Gaultheria fragrantissima Gandapura Perfumery, pharmaceutical, flavoring					sedative, stimulant, refrigerant
37 Vetiver oil Vetiveria zizanioides Akar wangi Perfumery, soap, cosmetics, fixative 38 Wintergreen oil Gaultheria fragrantissima Gandapura Perfumery, pharmaceutical, flavoring	36	Turpentine oil	Pinus merkusii	Tusam	Cosmetics, oil and paint solvent, antiseptic,
38 Wintergreen oil Gaultheria fragrantissima Gandapura Perfumery, pharmaceutical, flavoring					pharmaceutical
J. Prince of the control of the cont	37	Vetiver oil	Vetiveria zizanioides	Akar wangi	Perfumery, soap, cosmetics, fixative
39 Vlang-ylang oil Canangium odoratum Vlang-ylang Perfumery	38	Wintergreen oil	Gaultheria fragrantissima	Gandapura	Perfumery, pharmaceutical, flavoring
1 of Frang-yiang on Canangian Cooratain Frang-yiang Fentinery	39	Ylang-ylang oil	Canangium odoratum	Ylang-ylang	Perfumery

Source: Dr. Meika Syahbana Rusli (2010), Trubus (2009)

Patchouli (Nilam)

Botanical name	Pogostemon cablin
Common method of extraction	Steam distilled
Color	Golden brown
Consistency	Medium - Thick
Perfumery Note	Base
Strenght of initial aroma	Medium
Aromatic Description	Rich, earthy, woody aroma with a nearly hidden fruity note
Uses	Acne, athlete's foot, chapped skin, dermatitis, eczema, fatigue, frigidity, hair care, insect repellant, mature skin, oily skin, stress
Constituents	Patchoulol, Esters, Beta-Caryophyllene



Nutmeg (Pala)

Botanical name	Myristica fragrans
Common method of extraction	Steam Distilled
Color	Clear
Consistency	Thin
Perfumery Note	Middle
Strenght of initial aroma	Medium - Strong
Aromatic Description	Rich, spicy, sweet, woody. Similar to the cooking
	spice, but richer and more fragrant
Uses	Arthritis, constipation, fatigue, muscle aches,
	nausea, neralgia, poor circulation, rheumatism,
	slow digestion
Constituents	Terpinen-4-ol, Pinene, Sabinene, Cineole,
	Camphene, Limonene, Myristicin, Alpha Terpenene



Clove (Cengkeh)



Botanical name	Eugenia caryophyllata
Common method of extraction	Steam Distilled
Color	Golden Yellow/Brown
Consistency	Medium, Slightly Oily
Perfumery Note	Middle
Strenght of initial aroma	Strong
Aromatic Description	Spicy, warming yet slightly bitter, woody, reminis-
	cent of true clove buds, but richer
Uses	Arthritis, asthma, bronchitis, rheumatism, sprains,
	strains, toothache
Constituents	Eugenol, eugenyl acetate, caryophyllene,
	isocaryophyllene

Vetiver (Akar Wangi)

Botanical name	Vetiveria zizanoides
Common method of extraction	Solvent Extraction
Color	Golden/Dark Brown
Consistency	Thick
Perfumery Note	Base
Strenght of initial aroma	Strong
Aromatic Description	Woody, earthy, herbaceous, spicy almost smoky.
Uses	Acne, arthritis, cuts, depression, exhaustion,
	insomnia, muscular aches, oily skin, rheumatism,
	sores, stress
Constituents	Benzoic acid, vetiverol, furfurol, a-vetivone,
	B-vetivone, vetivene, vetivenyl vetivenate



Pepper (Lada)

Botanical name	Piper nigrum
Common method of extraction	Steam Distilled
Color	Clear
Consistency	Thin
Perfumery Note	Middle
Strenght of initial aroma	Medium
Aromatic Description	Crisp, fresh, peppercorn aroma
Uses	Aching muscles, arthritis, chilblains, constipation, muscle cramps, poor circulation, sluggish digestion
Constituents	Limonene, Pinene, Myrcene, Phellandrene, Beta- caryophyllene, Beta-bisabolene, Sabinene, Linalol, Pinocarveol, Alpha, Terpineol, Camphene, Alpha, Terpenene



Cananga (Kenanga)

Botanical name	Cananga odorata
Common method of extraction	Steam Distilled
Color	Pale Yellow
Consistency	Thin
Perfumery Note	Middle
Strenght of initial aroma	Medium
Aromatic Description	Resembling ylang ylang in aroma, cananga is sometimes used as an economical substitute in fragrancing applications. Floral, sweet, slightly woody
Uses	Oily skin/hair, insect bites, high blood pressure, anxiety, nervous tension, stress, fragrancing
Constituents	Caryophyllene, benzyl acetate, benzyl alcohol, farnesol, terpineol, borneol, geranyl acetate, safrol, linalol



Lemongrass (Sereh Dapur)



Botanical name	Cymbopogon citratus
Common method of extraction	Steam Distilled
Color	Pale Yellow to Vivid Yellow
Consistency	Thin
Perfumery Note	Тор
Strenght of initial aroma	Strong
Aromatic Description	Fresh, lemony, earthy
Uses	Acne, athlete's foot, excessive perspiration, flatu- lence, insect repellent, muscle aches, oily skin, scabies, stress
Constituents	Citral, Geranyl Acetate, Linalyl Acetate, Geranial, Neral, Limonene, Myrcene, Beta-caryophyllene

Citronella (Sereh Wangi)

Botanical name	Cymbopogon nardus
Common method of extraction	Steam Distilled
Color	Clear
Consistency	Thin
Perfumery Note	Тор
Strenght of initial aroma	Medium
Aromatic Description	Citrusy, slightly fruity, fresh, sweet
Uses	Excessive perspiration, fatigue, headache, insect repellant, oily skin
Constituents	Geraniol, citronellal



Cinnamon (KayuManis)



Botanical name	Cinnamomum zeylanicum
Common method of extraction	Steam Distilled
Color	Golden Yellow/Brown
Consistency	Slightly oily feeling
Perfumery Note	Middle
Strenght of initial aroma	Strong
Aromatic Description	Cinnamon Essential Oil is peppery, earthy, spicy,
	bright yet slightly woodsy. Oil distilled from the
	bark of the cinnamon tree is preferred over the oil
	distilled from the leaves. Cinnamon Bark Essential
	Oil, however, tends to be much more costly.
Uses	Constipation, exhaustion, flatulence, lice, low
	blood pressure, rheumatism, scabies, stress.
Constituents	Eugenol, eugenol acetate, cinnamic aldehyde,
	benzyl benzoate

Sandalwood (Cendana)



Botanical name	Santalum album
Common method of extraction	Steam Distilled
Color	Clear with a Yellow Tinge
Consistency	Medium - Thick
Perfumery Note	Base
Strenght of initial aroma	Medium
Aromatic Description	Rich, sweet, fragrant yet delicate, woody, floral
Uses	Bronchitis, chapped skin, depression, dry skin, laryngitis, leucorrhea, oily skin, scars, sensitive skin, stress, stretch marks
Constituents	Santalols, santyl acetate, santalenes

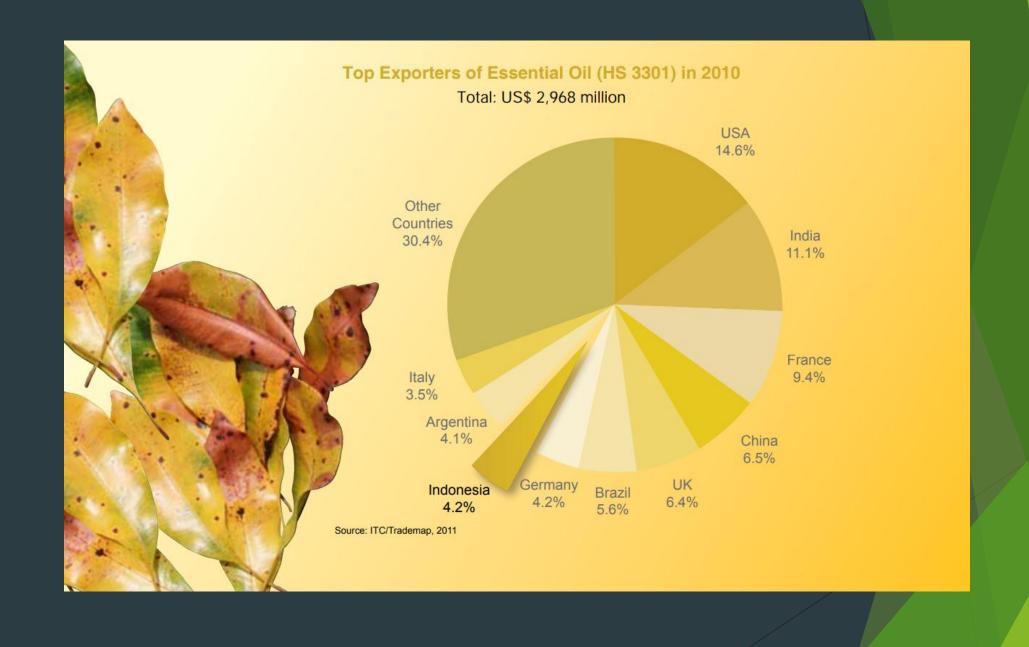
Cajuput (Kayu Putih)

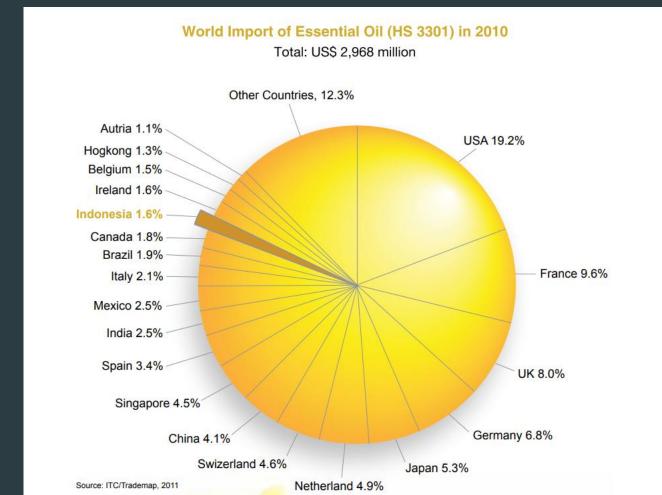


Botanical name	Melaleuca leucadendron		
Common method of extraction	Steam Distilled		
Color	Clear with a Yellow Tinge		
Consistency	Watery		
Perfumery Note	Middle		
Strenght of initial aroma	Medium		
Aromatic Description	Fresh, campherous aroma with a fruity note		
Uses	Asthma, bronchitis, coughs, muscle aches, oily skin, rheumatism, sinusitis, sore throat, spots		
Constituents	a-pinene, B-pinene, myrcene, a-terpinene, limo- nene, 1,8-cineole, y-terpinene, p-cymene, terpin- olene, linaolool, terpinen-4-ol, a-terpineol		



Essential Oil & Aromatherapy Market Business Description and Corporate Strategies in Globe till 2031





World Imports from Indonesia for HS 3301

Essential oils; resinoids; terpenic by-products etc

(in thousand US\$)

No.	Importers	Exported value in 2006	Exported value in 2007	Exported value in 2008	Exported value in 2009	Exported value in 2010
1	USA	15,660	19,766	30,895	16,445	27,861
2	Singapore	20,655	30,074	36,488	19,070	24,863
3	India	4,085	5,293	10,459	8,849	15,362
4	France	6,633	9,183	12,004	7,034	11,826
5	Spain	2,664	2,452	2,901	2,470	8,941
6	Germany	2,099	6,091	9,909	4,357	8,339
7	Switzerland	3,889	12,751	11,297	9,159	7,450
8	Netherlands	4,407	5,261	15,533	9,733	5,398
9	UK	2,323	2,999	5,685	2,844	4,115
10	UAE	1,042	698	3,649	3,111	2,790
11	China	1,083	2,867	2,146	1,070	2,255
12	Italy	66	407	897	638	692
13	Brazil	152	125	231	384	596
14	Belgium	225	422	31	5	582
15	Turkey	306	193	167	617	558
16	Japan	930	1,228	2,858	1,938	526
17	Mexico	88	210	703	664	452
18	Timor-Leste	4		9	188	313
19	Thailand	76	60	113	192	292
20	Philippines	13	88	131	164	278
	Other Countries	925	972	1,028	1,716	1,229

Source: ITC/Trademap, 2011

Who is the largest manufacturer of Essential Oil & Aromatherapy Market worldwide?

- Young Living Essential Oils
- Thann
- Ryohin Keikaku
- Rocky Mountains Oil
- Mountain Rose Herbs
- doTerra

On the basis of the End Users/Applications, this report focuses on the status and outlook for major applications/end users, consumption (sales), market share, and growth rate for each application, including:

- Food & Beverages
- Medical
- Personal Care
- Homecare
- Spa & Wellness Products
- Others

What are the Types of Essential Oil & Aromatherapy Available in the Market?

On the basis of Product Type, this report displays the production, revenue, price, market share, and growth rate of each type, primarily split into:

- Essential Oils
- Blended Oils
- Carrier Oils
- Others

Which Regions are Leading the Essential Oil & Aromatherapy Market?

- North America (United States, Canada and Mexico)
- Europe (Germany, UK, France, Italy, Russia and Turkey etc.)
- Asia-Pacific (China, Japan, Korea, India, Australia, Indonesia, Thailand, Philippines, Malaysia and Vietnam)
- South America (Brazil, Argentina, Columbia etc.)
- Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Targeting Open Market with Strategic Business Innovations: A Case Study of Growth Dynamics in Essential Oil and Aromatherapy Industry

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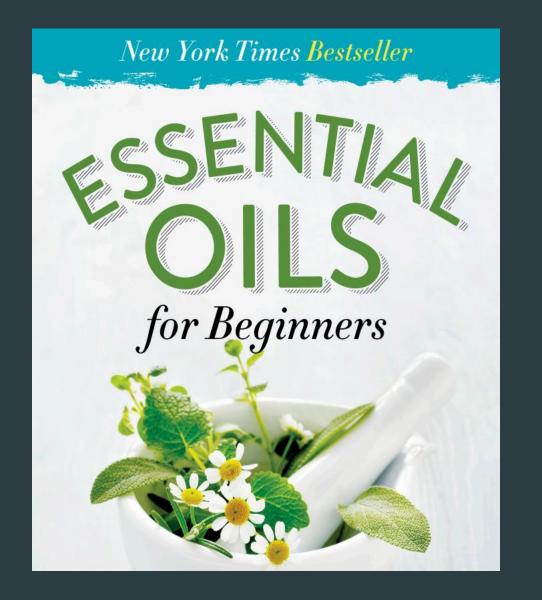
Abstract: Essential oil and aromatherapy industry is increasingly gaining prominence in the global market. Previous studies have been carried out on the benefits of essential oils in healthcare and as part of the healing arts of many cultures, as a proven method of caring for our physical, spiritual and mental health. To enter an open market and promote the awareness of essential oils and aromatherapy, strategic planning capability is important to drive business growth. This paper utilizes a simulation-based strategic decision support system (SSDSS) to conduct a real-world case study with empirical data and examine the effectiveness of SSDSS applications in supporting market development and business growth with service innovations. Through iterative computer simulations and scenario analysis of healthcare promotion and business development for performance improvement, the effects of strategic business innovations could be systematically analyzed to identify different stages of adopters and effective approaches to achieve the established objectives with market value creation.

Keywords: Business Model; Strategy; Decision Support; Entrepreneurship; Business Growth

Table 1. Target customer analysis for Essential Oil and Aromatherapy industry.

Segment	Percentage	Category	
Monthly Color Amount	75.60%	NTD\$ 1,000	
Monthly Sales Amount	22.20%	NTD\$ 1,001 - NTD\$ 3,000	
Condon Dronontion	16.50%	Male	
Gender Proportion	83.50%	Female	
A Doo o - off - o	52.80%	30 - 39 years old	
Age Proportion	27.30%	20 - 29 years old	
M 11 101 1 D 11	60.80%	Single	
Marital Status Proportion	39.20%	Married	
	60.20%	College and University	
Education Proportion	36.40%	Business Area	
	23.30%	Service Industry	
Manufala Familia Ianana	26.10%	NTD\$ 30,001 - NTD\$ 50,000	
Monthly Family Income	22.20%	NTD\$ 50,001 - NTD\$ 70,000	

Source: Data collected from the case company.





This I know for certain,
Aromatherapy is a skilled
therapy and needs to be
treated as such!

~ Jodi Baglien

Jodi Baglien is a Certified Clinical Aromatherapist, Holistic Practitioner, and Educator with 20 years of experience.



Patch Training Program Core Training Program Consulting Services About Jodi BLOG SHOP Quella Essential Oils



Work with a Certified Clinical Aromatherapist to bring aromatherapy to your patients!





NAUSEA RELIEF No. 44

ascents[®] Patch

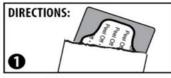


Metal-free; safe for use in MRIs



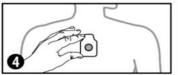
Tear Here

For best patch adhesion, clean any oil or lotion from the skin. This patch uses an occlusive barrier to prevent oils from being absorbed through the skin.









WARNING: CHOKING HAZARD for children under 3 years of age.

DISCLAIMER: The Ascents® Patch has not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

Made by Bioesse Technologies LLC using Aeroscena®'s proprietary formulas.

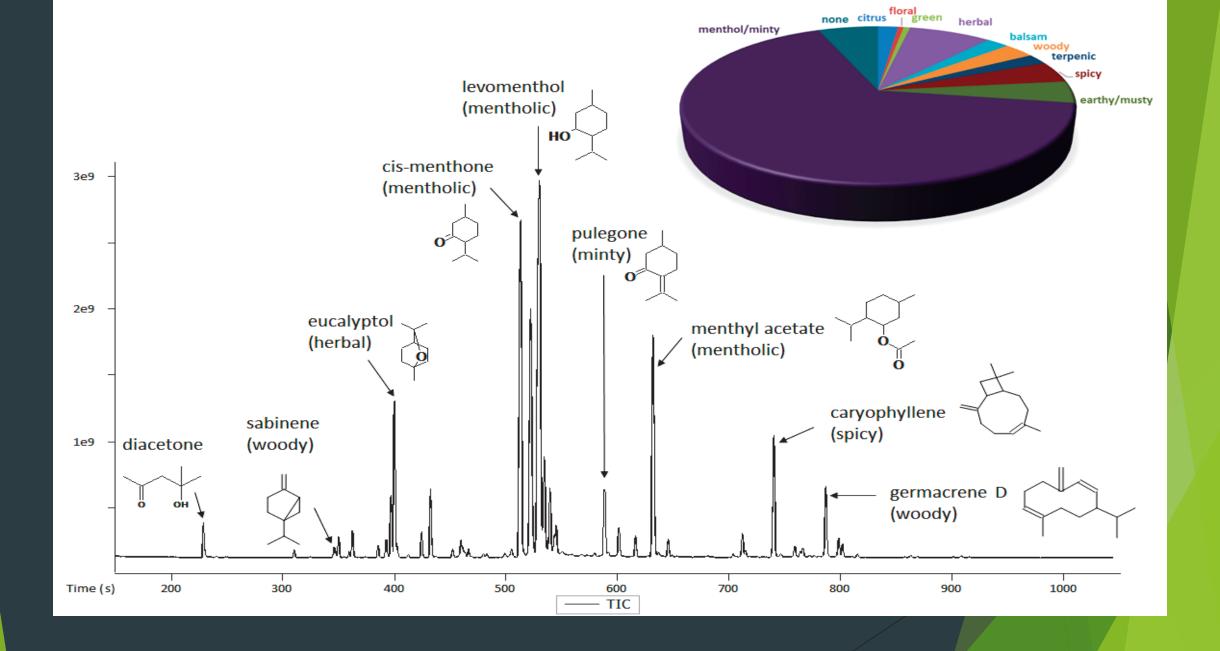
shopascents.com aeroscena.com





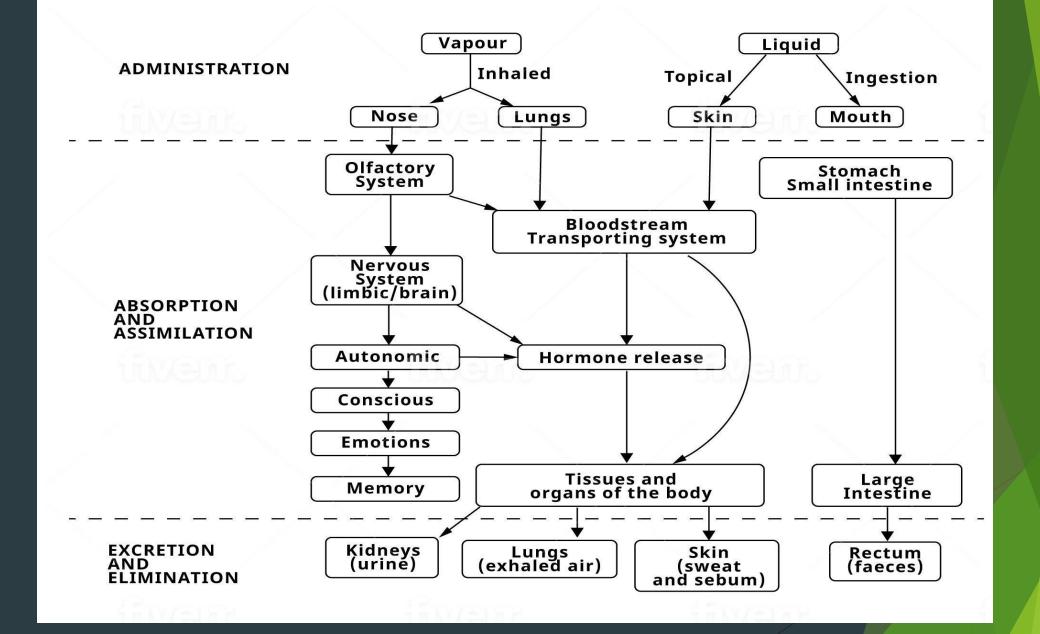


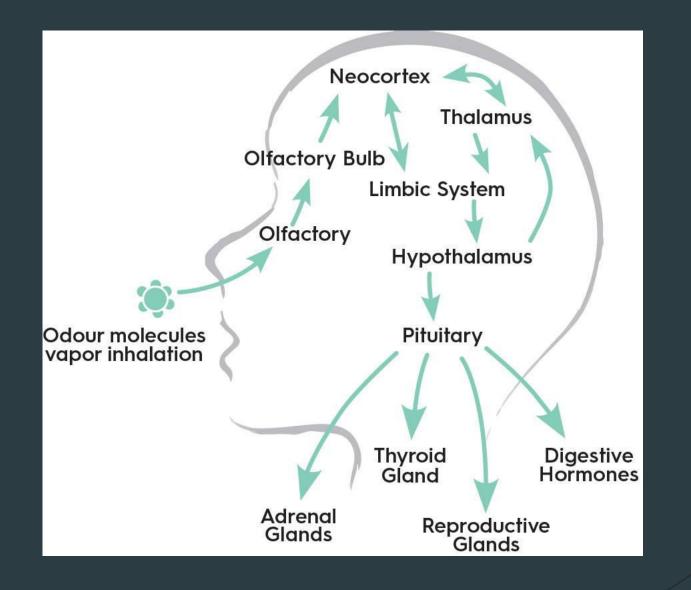


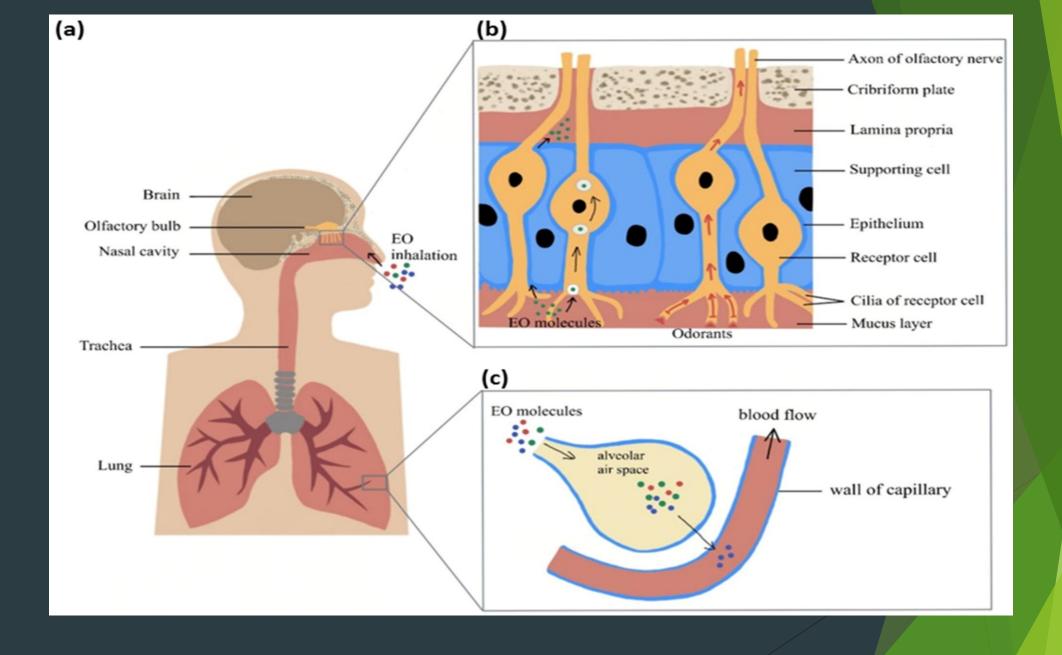


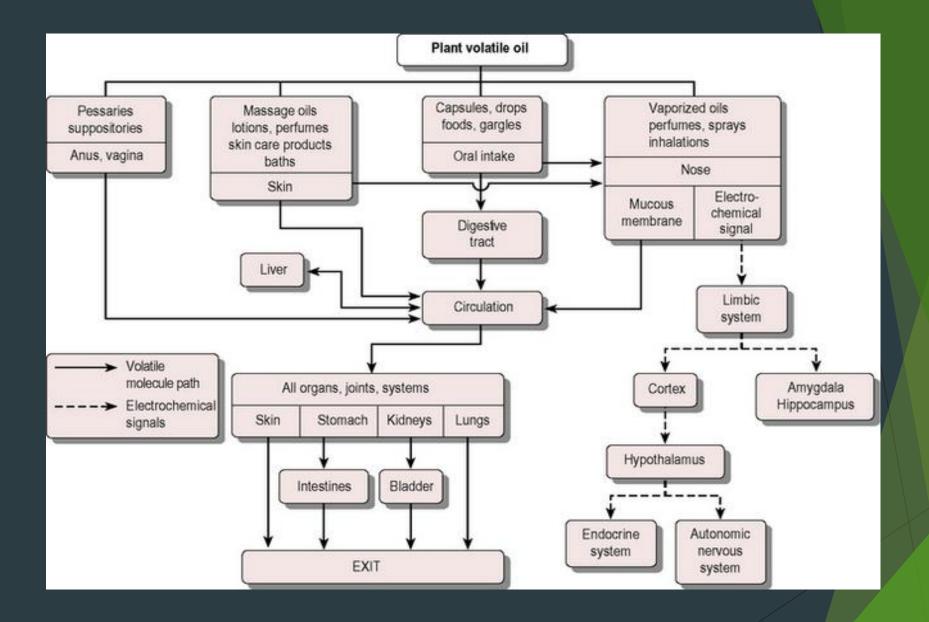
BALANCING HORMONES WITH ESSENTIAL OILS

- Essential oils may have hormone-like activity if their structure is similar enough to a hormones' structure for them to interact with the same receptor.
- Oestrogenic activity has been found in certain plants due to their content of the chemical oestrone.
- Anethole, found in bitter and sweet fennel, star anise and aniseed essential oils, is the methyl ether of oestrone, and seems to display the same potent oestrogenic activity.
- ➤ Tisserand [1979] has spoken of the ability of some oils [Geranium, Basil, Rosemary] to stimulate the adrenal cortex, which produces oestrogen amongst other hormones.









Chan et al., J Pharmacogn Nat Prod 2016, 2:1 DOI: 10.4172/2472-0992.1000114



Research Article Open Access

Intranasal Borneol Improves the Behavioral Problems and Enhances the Immunologic Function in Children with Autism

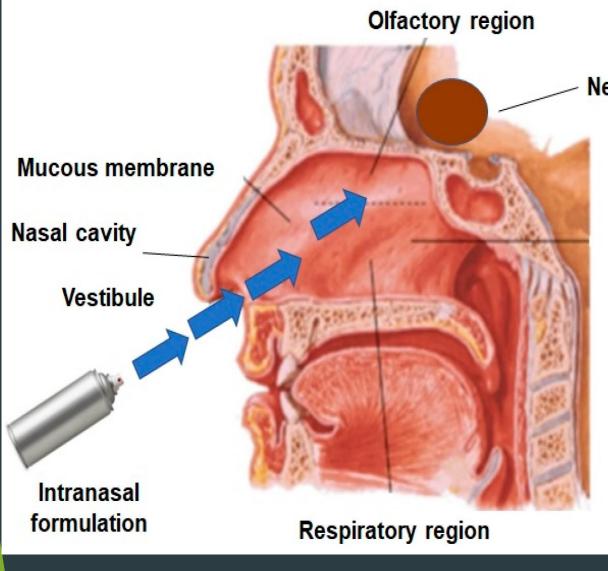
Han YMY1, Sze SL2,3, Wong CK4,5, and Chan AS2,3,6

- ¹Department of Rehabilitation Sciences, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong SAR
- ²Neuropsychology Laboratory, Department of Psychology, The Chinese University of Hong Kong, Shatin, Hong Kong SAR
- ³Chanwuyi Research Center for Neuropsychological Well-Being, The Chinese University of Hong Kong, Shatin, Hong Kong SAR
- ⁴Department of Chemical Pathology, The Chinese University of Hong Kong, Prince of Wales Hospital, Shatin, Hong Kong SAR
- ⁵Institute of Chinese Medicine and State Key Laboratory of Phytochemistry and Plant Resources in West China, The Chinese University of Hong Kong, Shatin, Hong Kong SAR

Abstract

Children with autistic spectrum disorder (ASD) have difficulty interacting with others both verbally and behaviorally. In addition, they display impaired temper and behavior control. These two impairments hamper the daily functions required for independent living. The current study evaluated a patented intranasal herbal formula including borneol as a possible intervention for improving the social ability and self-control of children with ASD. Thirty children with ASD participated in this study, with 15 receiving the herbal medicine and 15 serving as control subjects. After six months of intervention, the children in the experimental group showed significant improvements in their social and self-control abilities. Furthermore, their immunologic function, as indexed by the significant reduction in circulating CD3+CD8+ suppressor/cytotoxic T lymphocytes in their blood samples, was significantly improved. By contrast, the children in the control group did not show improvement in their social or self-control abilities, and no significant difference was found in their immunologic function over the six-month period. Thus, the results suggest that the intranasal herbal formula has therapeutic effects on the behavioral problems of children with ASD.

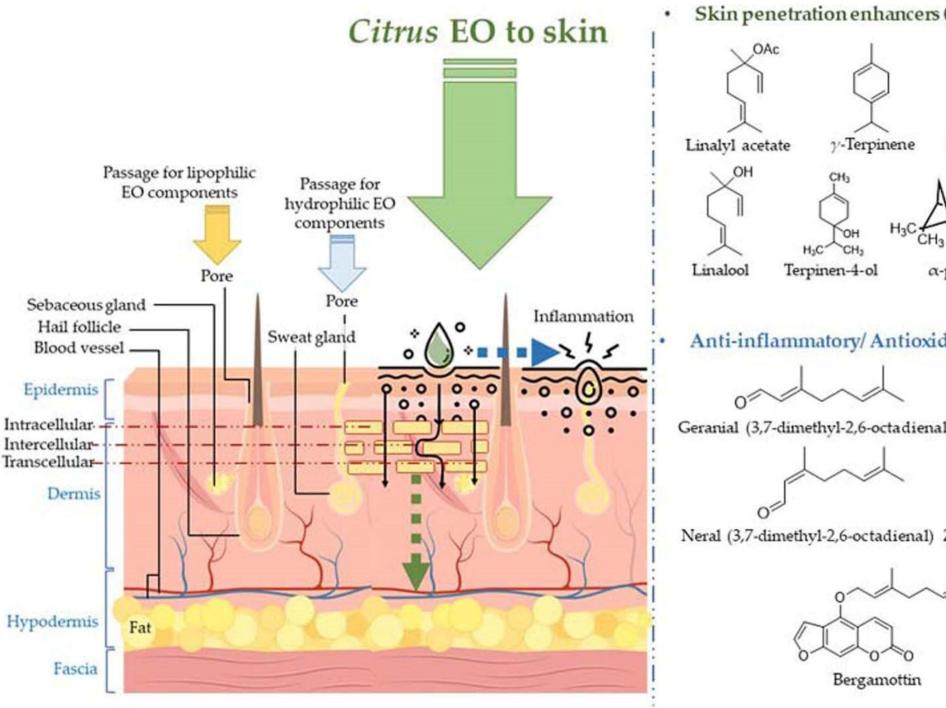
⁶Henan Songshan Research Institute for Chanwuyi, Henan 452470, China



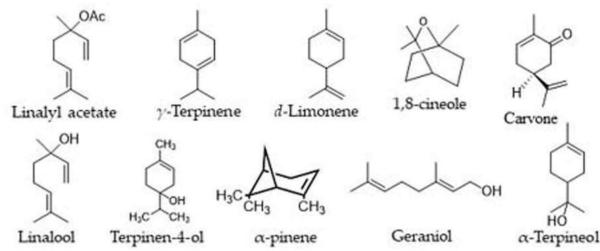
Neuronal disorder

Nasal septum

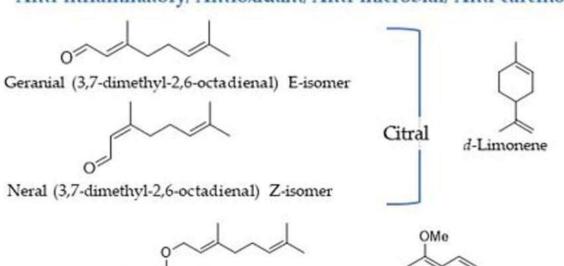
l evidence supports the effectiveness asal administration for the treatment s brain disorders, including zepines for epilepsy (Fişgin et al., lsti et al., 2010), stem cells for n's disease (Bossolasco et al., 2012, n et al., 2011), and insulin for a of the Alzheimer's type (Craft et al., niöth et al., 2012).



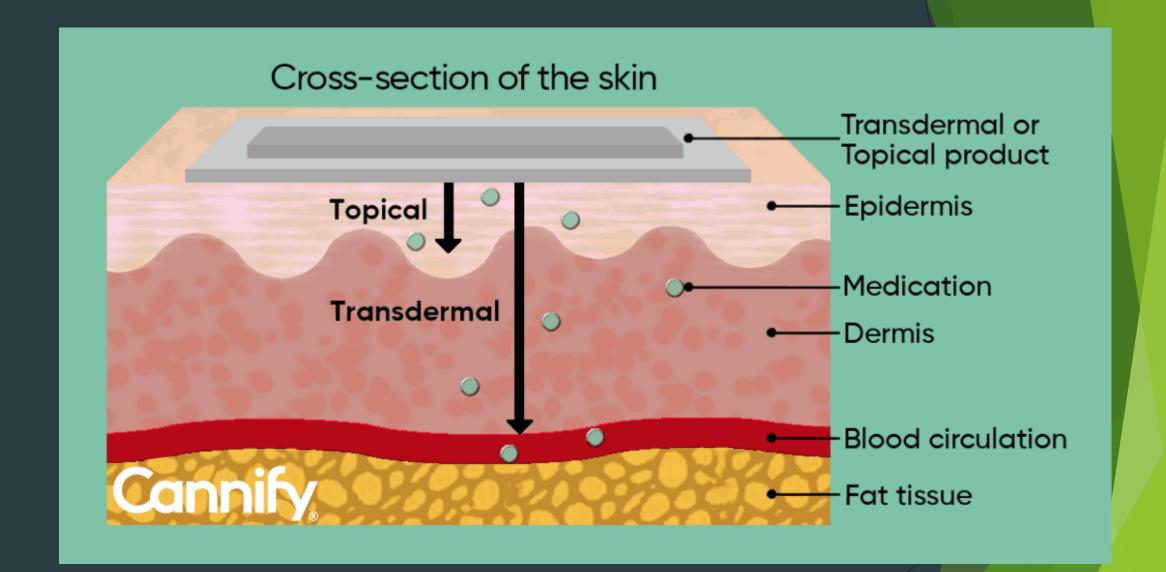
Skin penetration enhancers (facilitate transdermal drug delivery)



Anti-inflammatory/ Antioxidant/ Anti-microbial/ Anti-carcinoma



Citropten



Jenis Yankes SPA

Yankes SPA Tradisional

Yankes SPA Medis

- •Health SPA → @Griya Spa Tirta I
- •Wellness SPA → @Griya Spa Tirta II dan III



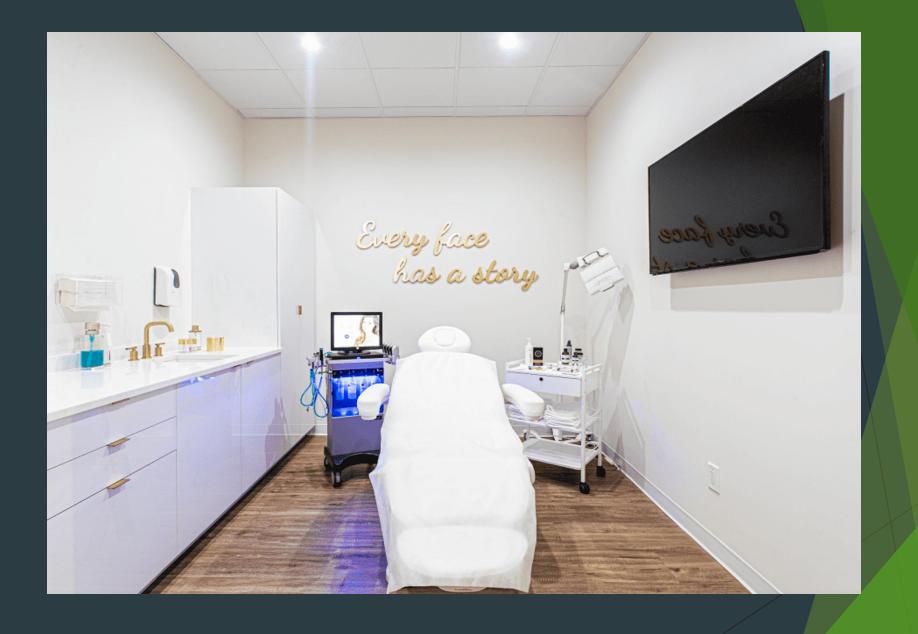
Griya SPA

	Tirta I	Tirta II	Tirta III
1. Metode:			
a. Hidrotherapy			
Perawatan berendam dengan suhu normal/netral	V	V	V
 Perawatan berendam dengan air panas ditambahkan ramuan dan/atau minyak atsiri 	V	V	V
Perawatan dengan steam	V	V	V
 Perawatan tangan dan kaki dengan menggunakan air 	V	V	V
Perawatan berendam dengan Sitz bath	-	V	V
Perawatan dengan ice dan contrast bath	-	V	V
Perawatan dengan underwater massage	=	V	V
 Perawatan dengan: balneotherapy, algotherapy, fangotherapy, mud therapy, Thallasotherapy 	-	V	V

















Pengertian

- Terapi modalitas dengan pendekatan holistik berbasis Swedish massage therapy (SMT), Aroma-Acupoint therapy (AAT) dan topical nanoemulgel (TNEG).
- Menyatukan antara pendekatan klasik dan modern (classical & modern approach).

10 Keunggulan:

- 1. Non-invasif
- 2. Inovatif
- 3. Spesifik
- 4. Efek samping minimal
- 5. Manfaat optimal
- 6. Terapi sinergis
- 7. Fleksibel terapi
- 8. Rasional
- 9. Ilmiah
- 10. Holistik

Table 7: Definition of grades of recommendations (NHMRC 2009)¹⁸

Grade of Recommendation	Description
A	Body of evidence can be trusted to guide practice
В	Body of evidence provides moderate support to guide practice in most situations
С	Body of evidence provides limited support for recommendation(s) and care should be taken in its application
D	Body of evidence is weak and any recommendation must be applied with caution
E	Body of evidence is insufficient to provide recommendation

A narration of the current evidence is provided for respective recommendations with emphasis on those graded A, B and C due to greater clinical relevance. A narrative review was also undertaken to outline the safety profile of massage therapy, with reference to literature that highlighted safety/adverse effects in their titles and/or abstracts.

Figure 2: Growth of published studies on the effectiveness of massage therapy

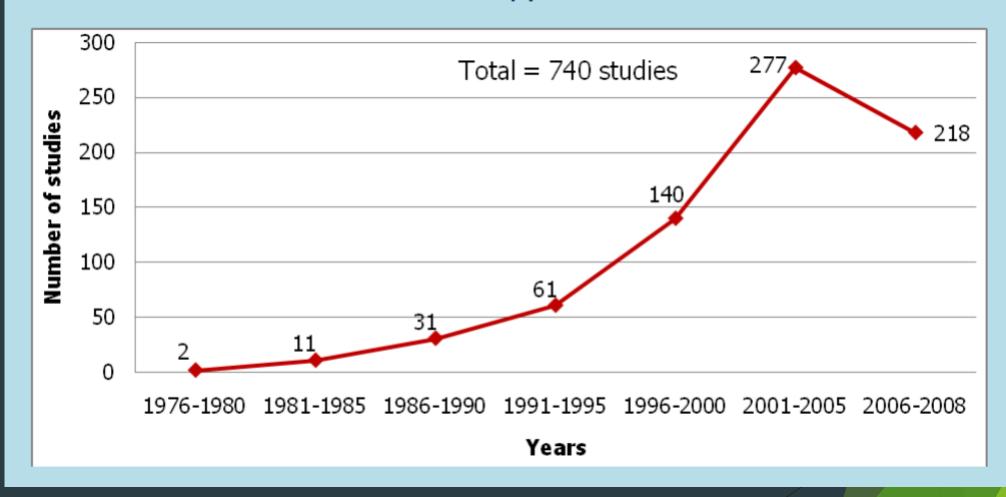


Table 9: Subgroups of participants and topic areas of study included in this review

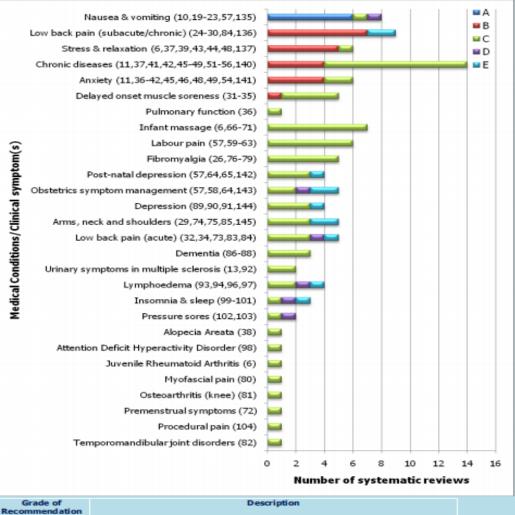
Participant Subgroups		Number of studies	
Allopathic Medical	Anaesthetic	3	
Specialties & Special Population Groups	Cardiology	12	
	Dermatology	6	
	Endocrinology	6	
	Gastrointestinal	13	
	Genetics/Developmental	14	
	Geriatrics (include psychogeriatric)	• 32	
	Gynaecology	13	
	Haematology	7	
	Immunology	2	
	Infectious diseases	14	
	Intensive care	9	
	Mental Health	• 35	
	Musculoskeletal	• 150	
	Neurology	• 46	
	Neurosurgery	1	
	Obstetric	• 39	
	Oncology	• 76	
	Ophthal mology	1	
	Orthopaedic	3	
	Paediatrics	- 88	
	Palliative Care	• 24	
	Plastics	6	
	Rehabilitation	3	
	Respiratory	15	
	Rheumatology	15	
	Sexual & Reproductive Health	1	
	Spinal	8	
	Surgery	• 38	
	Urology	4	
	Vascular	6	
Sports	Exercise recovery	• 27	
	Sports performance	• 28	
	Sports psychology	2	
Others		- 81	
Physiology		• 33	
 Represent the most 	st active domains of research	-	

Table 10: Massage therapies/modalities included in this review

Sourced therapies/modalities	Number of studies
1. Acupressure	• 86
2. Aromatherapy	• 53
3. Ayurvedic	1
4. Bowen	7
5. Deep tissue	18
6. Deep transverse friction	4
7. Hawaiian/Lomi-lomi	Nil
8. Indian Head	Nil
9. Infant	• 40
10. Manual Lymphatic Drainage	15
11. Myofascial release	19
12. Reflexology	• 49
13. Remedial	Nil
14. Rolfing	5
15. Seated	10
16. Shiatsu	11
17. Sports	• 46
18. Swedish	• 82
19. Thai	3
20. Trager	Nil
21. TCM including Tuina/Qigong	22
22. Trigger point therapy	21
Unsourced therapies/modalities	
1. Anma (Japanese)	1
2. Back / Slow stroke back	19
3. Classical	1

Represent therapies/modalities most commonly researched; NSM, non-specified (type of) massage; TCM, Traditional Chinese medicine

Figure 3: Summary of systematic reviews

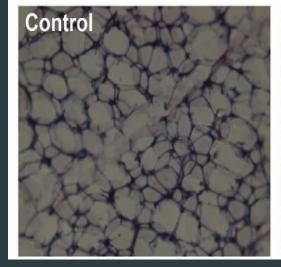


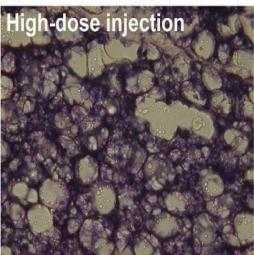
Grade of Recommendation	Description
A	Body of evidence can be trusted to guide practice
В	Body of evidence provides moderate support to guide practice in most situations
С	Body of evidence provides limited support for recommendation(s) and care should be taken in its application
D	Body of evidence is weak and any recommendation must be applied with caution
E	Body of evidence is insufficient to provide recommendation



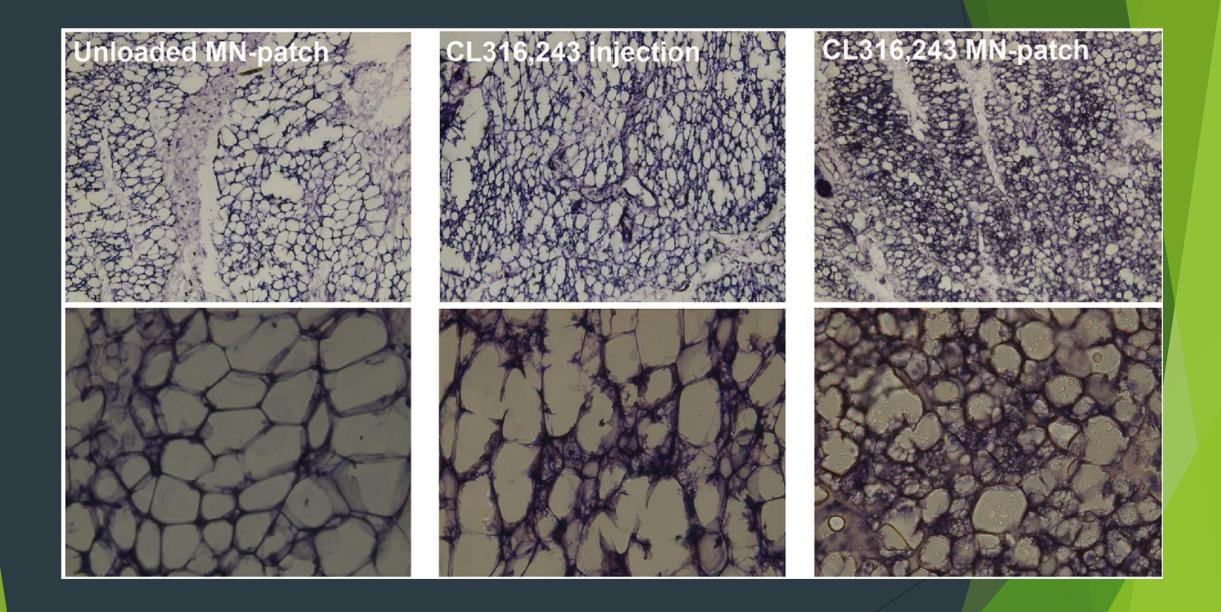


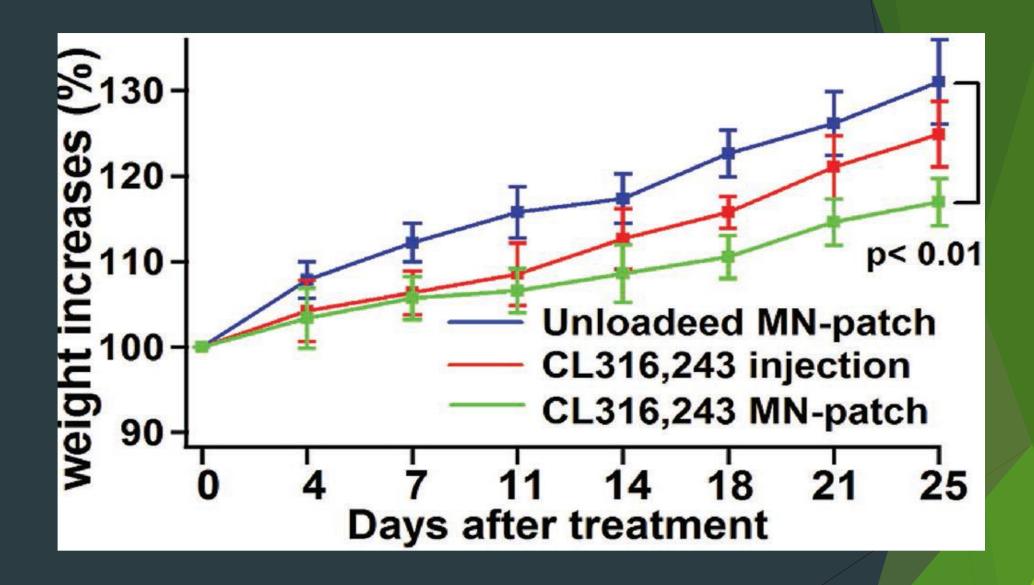
Control High-dose Low-dose CL316,243 CL316,243 injection MN-patch











Synergy implies that essential oils are, broadly speaking, more powerful in combination than when they act alone.

SCENT FAMILY	DESCRIPTORS	ESSENTIAL OILS	BLENDS WITH
Citrus	Fruity, Tangy	Lemon, Orange, Grapefruit, Tangerine, Mandarin	Floral, Minty, Spicy, Woody
Floral	Feminine, Soft	Lavender, Neroli, Jasmine, Geranium, Rose	Citrus, Spicy, Woody
Herbaceous	Green, Grassy	Clary Sage, Fennel, Rosemary, Thyme, Tea Tree	Minty, Woody
Camphoraceous	Intense, Medicinal	Camphor, Eucalyptus, Cajeput, Pennyroyal, Laurel Leaf	Citrus, Spicy, Woody, Herbaceous

Minty	Cooling, Earthy	Spearmint, Wintergreen, Peppermint	Citrus, Woody, Herbaceous, Earthy
Woody	Masculine, Musky	Sandalwood, Pine, Juniper Berry, Cedarwood, Patchouli	Floral, Herbaceous, Minty, Spicy, Citrus
Spicy	Warm, Crisp	Basil, Black Pepper, Cinnamon, Ginger, Nutmeg	Floral, Woody, Citrus
Resinous	Fresh, Piney	Elemi, Frankincense, Myrrh	Citrus, Floral

PERFUME NOTE	EVAPORATION RATE	COMMONLY USED ESSENTIAL OILS
Тор	0.5 - 3 hours	Bay, Citrus Oils, Eucalyptus, Lavender, Mint Oils, Petitgrain, Pine, Rosemary, Sage
Middle	2 - 4 hours	Black Pepper, Clove Bud, Cinnamon, Fir Needle, Geranium, Marjoram, Myrrh, Palmarosa, Rose Absolute
Base	Up to several days	Cedarwood, Frankincense, Valerian, Vetiver, Spikenard, Patchouli, Sandalwood

REPUTED BENEFITS	ESSENTIAL OILS
Aphrodisiac	Clary Sage, Lavender, Litsea Cubeba, Mandarin, Nutmeg, Rose, Rosewood, Sandalwood, Vetiver
Anti-inflammatory	Clove Bud, Ginger, Helichrysum, Orange, Roman Chamomile,Turmeric
Antiseptic/Antimicrobial	Cinnamon, Citronella, Eucalyptus, Lemon, Rosemary, Tea Tree
Balancing	Blue Tansy, Cedarwood, Juniper Berry, Marjoram, Patchouli, Pine, Spruce, Ylang Ylang
Calming	Bergamot, Frankincense, Geranium, Jasmine, Lavender, Lemon, Neroli, Ylang Ylang, Valerian

Calming	Bergamot, Frankincense, Geranium, Jasmine, Lavender, Lemon, Neroli, Ylang Ylang, Valerian
Carminative	Basil, Cardamon, Cinnamon, Fennel, Ginger, Nutmeg
Detoxifying	Cypress, Lemon, Fennel, Juniper Berry, Palmarosa, Patchouli, Peppermint
Stimulating	Eucalyptus, Ginger, Grapefruit, Lemon, Lime, Peppermint, Rosemary, Sweet Orange
Uplifting	Bergamot, Frankincense, Lavender, Lime, Roman Chamomile, Rosemary, Ylang Ylang

Essence Oils

Essential oils not extracted via steam or pressure are referred to as essence oils. Essence oils are derived in a variety of ways from flowers, barks, leaves, roots or resins.

Concretes: The aromatic plant matter is extracted by organic solvents such as hydrocarbons. Concretes are more stable and concentrated than unmodified essential oils.

Resinoids: Oils from natural resins such as frankincense, myrrh, amber, benzoin, etc. are extracted using hydrocarbon solvents. Occasionally the ethanol soluble fraction of a resinoid is called an absolute.

Absolutes: They are obtained by taking the concretes through a second process of ethanol extraction or liquid carbon dioxide. With the latter process, the oils produced are of excellent aroma quality and entirely free of unwanted solvent residues or non-volatile matter.

Carrier Oils and Alcohol

Many essential oils are much too strong and often expensive to use without dilution. To moderate such attributes carrier oils are used to dilute and carry the fragrance for use as a perfume. Carrier oils come from nuts and seeds and are usually pressed out of commercially produced crops. The best carrier oils are stable to oxidation and have little or no fragrance of their own, and they include oils from sweet almond, apricot, peach kernel, sesame seed, soybean, sunflower, avocado, and jojoba. Some of these oils can be used as the only carrier while others are only safe for skin use at 10-25% of the total amount. Alcohol is added to perfumes to carry the fragrance by evaporation as well as dilute the ingredients. Perfumes contain 25% fragrance and about 75% alcohol and other diluents (carrier oils) by volume while cologne is composed of more than 90% diluent.



Carrier oil (minyak pelarut)

- adalah minyak nabati yang biasanya diperoleh dari metode pressing biji tumbuhan.
- Carrier oil digunakan agar aplikasi essential oil ke kulit lebih nyaman dan lebih efektif.

Table 2. Examples of base oils used for skin massages and care

Indications	Plant oils
dry and sensitive skin	avocado oil, apricot kernel oil, wheat germ oil, almond (sweet) nut oil, kukui (candle nut) oil, macadamia nut oil, green coffee oil, jojoba oil, marula oil, linseed oil, blackcurrant seed oil, olive oil
oily, combination, acne skin	babassu oil, chaulmoogra oil, baobab oil, sesame oil, evening primrose oil, borage oil, linseed oil, rosehip seed oil, sesame oil, sunflower oil, grape seed oil
mature skin, with the signs of ageing	rice bran oil, wheat germ oil, corn germ oil, soybean oil, rosehip seed oil, green coffee oil, grape seed oil, avocado oil, olive oil, coconut oil, sweet almond oil, sesame oil, argan oil
skin of children and infants	sunflower oil, evening primrose oil, borage oil, linseed oil, olive oil



Fixatives

Fixatives are scented components that act to hold the fragrance together and regulate rate of evaporation for the fragrant components. The fixatives often provide a base note and character to the mixture. One of the most important steps in the manufacture of a fine perfume is the addition of a fixative which enables the essential oils to retain their fragrance for a longer period of time. Fragrances remain fresh if they are protected from light, heat and oxygen for about three years from the date of manufacture. They are categorized based on the source into seven different classes (see Box 1).

Box 1.

- 1. Ambergris
- 2. Bitter Almond
- 3. Camphoraceous
- 4. Floral

Jasmine
Lily of the valley
(Muguet)
Rose

5. Fruit

Esters Miscellaneous

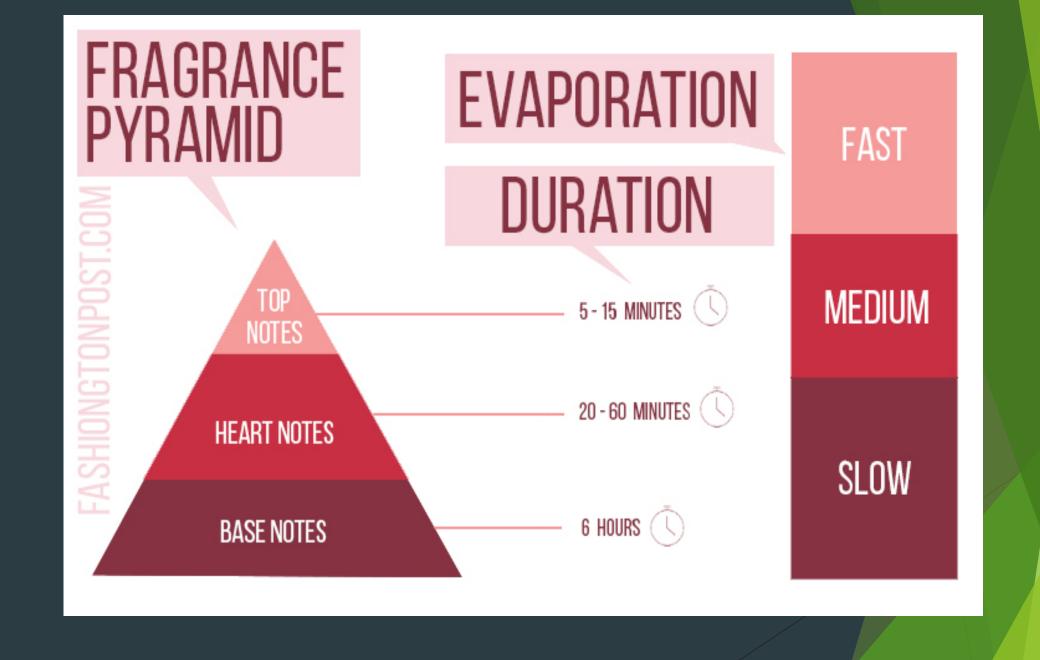
6. Musk

Macrocyclic musks
Nitro musk
Non-nitro aromatic
benzenoids
Different families
of musks

7. Wood

Cedarwood Patchouli Sandalwood Various studies on the relation between the sensory properties and structural features of aromatic compounds have been carried out. Threshold values and odor qualities of a series of alicyclic and aromatic aldehydes have been investigated. It has been found that aldehydes bearing terminal phenyl or cycloalkyl substituents exhibit threshold minima at eight carbon atoms. A similar trend is observed for straight chain aliphatic aldehydes. Straight alkyl chains resulted in lower threshold values than the cyclic structures.

Compound	Allyl/Propenyl	Other Substituents	Sensory Quality
Methylchavicol	allyl	methoxyl	basil-like
Anethole	propenyl	methoxyl	anise-like
Eugenol	allyl	hydroxyl & methoxyl	clove-like
Safrole	allyl	dioxymethylene	sassafras-like
Benzaldehyde	aldehyde		Bitter almond-like
3-methoxy-4- hydroxybenzaldehyde	aldehyde	hydroxyl & methoxyl	Vanilla-like
3,4-dioxymethylenebenzaldehyde	aldehyde	methoxyl	Heliotrope-like



TOP

MIDDLE

BASE

CITRUS

- Tangerine
- Bergamot
- Grapefruit
- Mandarian
- Melissa
- Orange
- Lime
- Lemongrass

HERBAL

- Thyme
- Clay Sage
- Peppermint
- Spraymint
- Eucalyptus
- Coriander
- Basil

CITRUS

Naroli

HERBAL

- Chamomile
- Majoram
- Pine
- Rosemary

FLORAL

- Geranium
- Lavender

WOODSY

- Cypress
- Juniper

SPICY

- Black Pepper
- Nutmeg

WOODSY

- Myrrh
- Sandalwood
- Cedarwood
- Balsam Fir

FLORAL

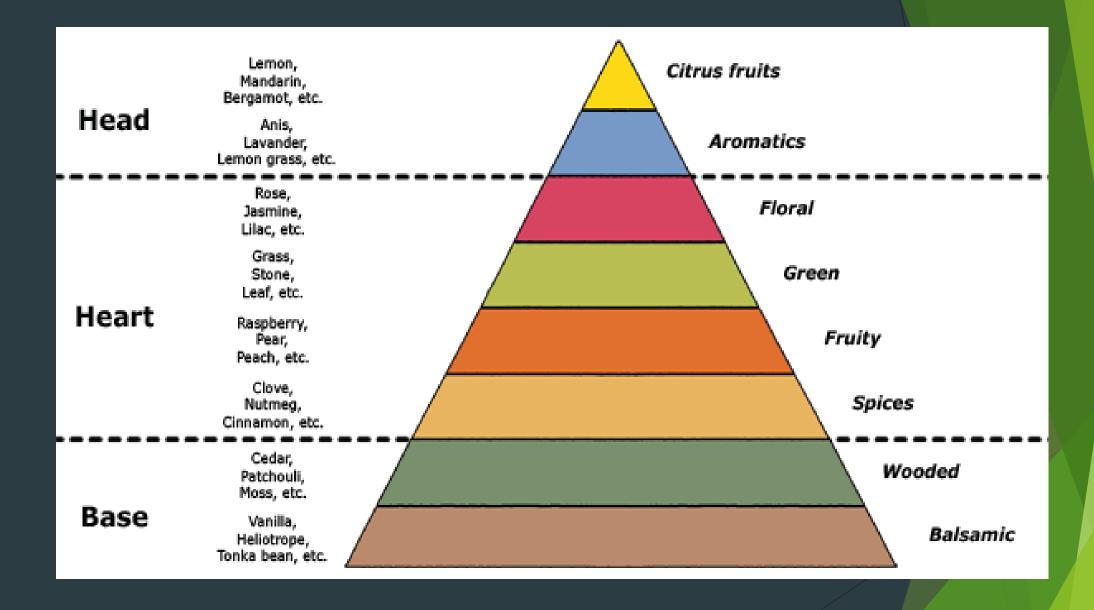
- Jasmine
- Rose
- Ylag Ylang

SPICY

- Cinnamon
- Clove
- Ginger

EARTHY

- Frankincense
- Vetiver
- Patchouli
- Valerian



Essential Oils Notes List

Blending your EOs by notes: From the total drops you need, calculate 20% for base notes, 30% for top and 50% for middle notes.

Base Notes

Ylang ylang Cedarwood Cinnamon Cassia Oil of Guaiac Clove Myrrh Ginger Patchouli Jasmine Vetiver Neroli Angelica Oak Moss Sandalwood Rose Frankincense Rosewood Balsam of Valerian

Vanilla

Peru

Middle Notes

Geranium **Black Pepper** Clary Sage Cardamom Cloves Chamomile Marjoram Cypress Nutmeg Ho Leaf Palma Rosa Yarrow Pine Juniper Thyme Lavender Bay Myrtle Rosemary Melissa

Top Notes

Eucalyptus Basil Bergamot Grapefruit Hyssop Noble-Chamomile Lemongrass Lime Coriander Tangerine Cumin Verbena Lemon Niaouli Mandarin Orange Peppermint Ravensara Cajuput Spearmint Tea Tree

Perfume 101 **30**% **50**%

EssentialBazaar.com©





TO CURE IS SOMETIMES TO RELIEVE IS OFTEN TO COMFORT IS ALWAYS

Untitled. Benyamin Lampson. Academic Medicine 2007;82:1112-3



Terima Kasih