

Musculoskeletal disorders Cheat Sheet by sam219 via cheatography.com/201893/cs/47504/

Managed by: Counter-irrtants Rubefacients - relieve pain by stimulation of a- & B- nociceptive receptors (Gate control theory) - Irritant skin to distract from muscle and joint pain Rubefacients - Vascular agents causing vasodilation/redness to cleanse area of any harmful substances and nourish it.

Rubefacients & counter-irritants		
Oil of wintergreen	Oil of turpentine (longleaf pine)	Capsaicin
Phenolic glycoside (gaultherin)> enzymatic hydrolysis (maceration or steam distillation)> methyl salicylate	From oleoresin distillation	Pungent oleoresin.
Mainly as ointment or liniment for rheumatism, sprains	Contains monoterpenes (a- and B- pinene)	Anti-rheumatic drug as cream or plaster.
Skin irritant.	Used externally as rubifacient & counter irritants ointments and liniment, but not for more than 3-4 times daily. (skin irritant)	Depleates substance P (neuro-peptide pain mediator)
	Can cause sever airway spasms in asthma . Swallowing causes headache, coughing, lung bleeding, kidney damage due to A.I. pinenes, 3-carene and dipentene.	SE: Severe irritation/ Burning/ Away from eyes, mucous membrnae or injured skin/ avoid in children, pregnant or breast-feeding.

Refrigerant herbs		
Menthol	Camphor	
Monoterpene alcohol from mint species. Also prepared synthetically.	Monoterpene ketone.	
Applied 3-4 times daily in painful areas.	Has anti-septic/anti-itching activity.	
Produce a strong cooling sensation as counter-irrtitants.		



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Arthritis herbal treatment			
Willow bark	Turmeric	Boswellia	Avocado
Has phenolic glycoside Salicin > hydrolyzed to salicyl alcohol > oxidized to salicylic acid.	Has yellow-pi- gment, curcumin.	Has boswellic acid.	As fresh fruit or extract/juice.
Analgesic, anti-pyretic & anti-infl- ammatory	Anti-inflamm- atory action.	Unique anti-inflammatory action as NSAIDs. Treats chronic-inflammatroy diseases as rheumatoid arthritis specifically and bronchial asthma .	Specifically for osteoarthritis.
The naturally-occurring aspirin.	Rare SE: Stomach upsets/ Allergic reactions		MOA: Stimulates collagen synthesis & inhibits collagenase to restore normal cartilage structure.
			No SE.

Gout

DOC: Colchicine alkaloid Celery fruits

Increase urates elimination from kidneys.

Relieve symptoms & prevent recurrence when combined with low purine diet.

Treated with indomethacin, NSAIDs but not low-dose aspirin.

Aspirin has bimodal action/dose-dependent.

High doses >3g/day could be uricosuric (decrease uric acid level in blood by its excretion)



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