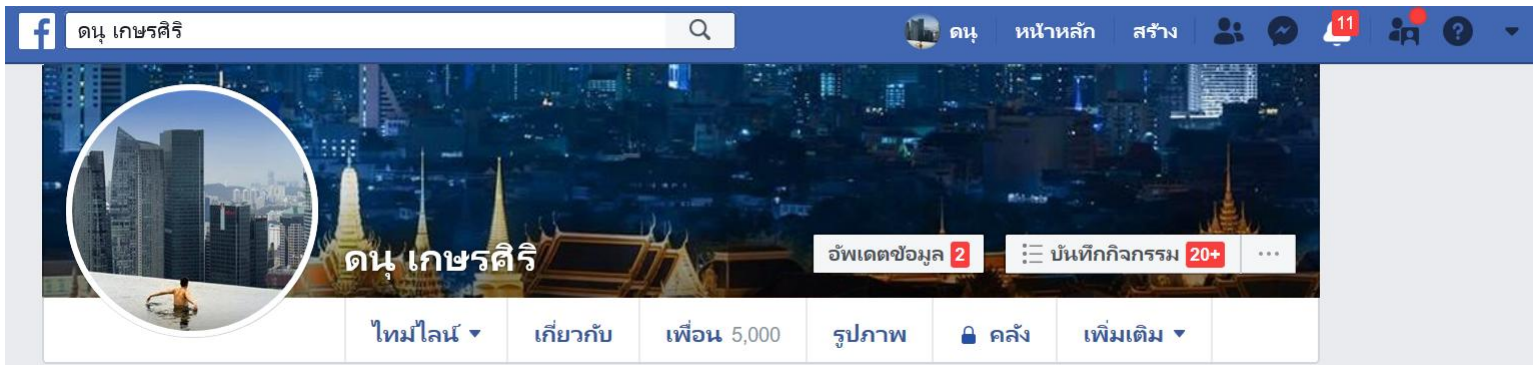


Drug used in Acne, Melasma

Moisturizer

Barrier preparations



นพ. ธนุ เกษรศิริ
FB: ธนุ เกษรศิริ
Line: dhanudg
IG: dhanudg

L:22.7.2568

Objective

- ❑ Drugs used in acne vulgaris: topical, oral
- ❑ Drug used in melasma: topical, oral
- ❑ Moisturizer: emollient, humectant, occludent, protein rejuvenator
- ❑ Barrier preparations



Drugs used in acne vulgaris

Oral drugs



- Antibiotic: **Tetracycline**, lymecycline, Doxycycline, Minocycline, Erythromycin, Azithromycin, **Bactrim**,
- Hormonal treatment: Progesterone (antiandrogen effect) → Cyproterone acetate (Diane®, Tiana®), anti-androgen drugs (spironolactone (Aldactone))
- Vitamin A
- Retinoid 13 cis-retinoic acid (**Roaccutane®**)

Topical drugs

- ❑ Benzoyl peroxide 2.5, 5, 10, Brevoxyl®
- ❑ Vitamin A acid 0.025, 0.05, 0.1% ,
retinoid, retinoid derivatives
Tretinoin:Retin-A®),
Isotretinoin,Adaphalene(Differin®),
Tazarotene
- ❑ Topical antibiotic : Clindamycin 2%,
Erythromycin 4%, Metronidazole

Benzac AC 5% 60g



Topical drugs

- **Azealaic acid 15%**, Salicylic acid 3-5%, Sulphur, Resorcinol
- **Tea tree oil**
- Picolinic acid gel
- Dapsone gel

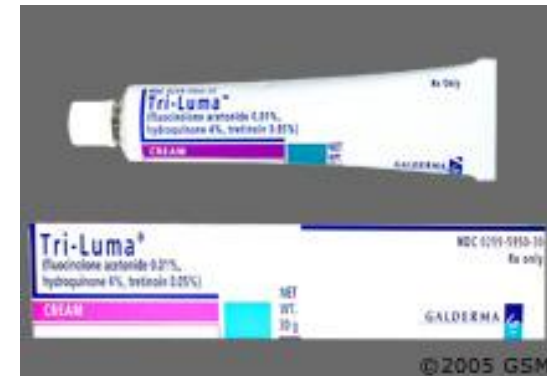


Drugs used in melasma

Topical anti-melasma

- **Hydroquinone 1-2%:** HQ(Depigmentary agent)
- **Modified Kligman** formulation (HQ+steroid+Vit-A)

Triple combination cream or TCC



Strongest Tyrosinase Inhibitors



☐ Thiamidol (isobutylamido-thiazolyl-resorcinol)***

Journal of Investigative Dermatology (2018)

☐ Hydroquinone



☐ Resorcinol

☐ Hexylresorcinol

☐ Kojic Acid, kojic dipamitate



Moderate Strength Tyrosinase Inhibitors

- ❑ **Arbutin**, Deoxy arbutin, N-acetyl-4-cysteaminylphenol, Mequinol+tretinoin
- ❑ Ascorbic acid, **Azelaic acid**, Ellagic Acid ทับทิม
- ❑ **Emblica** (Emblican) มะขามป้อม
- ❑ **Licorice Extract** ชะเอมเทศ (**Glabridin**, Glycyrrhiza glabra)
- ❑ Paper Mulberry (Mulberry extract) หม่อน
- ❑ Retinol, Retinoic acid, Tretinoin, Tarazotene, Adapalene
- ❑ Saururus chinensis พลูน้ำ, Artemisia Capillaris โกงฐจุฬาลัมพา



Weak Skin Lightening Ingredients

- ❑ Aloesin

- ❑ Flavonoids (resveratrol)

- ❑ Oils with unsaturated fatty acids
(soy bean oil)



Unclear potency need confirm

- ❑ **Tranexamic acid**: antifibrinolytic agent
- ❑ Resveratrol, **Runicol**, **Rucinol**, Zn sulphate
- ❑ **Cysteamine**: hyperpigment cream
- ❑ Glutathione??
- ❑ Mequinol
- ❑ Hydrocortisone***



- Sunscreen (***main therapy***)
- Chemical peeling
 - AHA 30-70%-Mandelic acid, glycolic acid, BHA, Salicylic acid



Oral drugs

- ❑ Tranexamic acid: antifibrinolytic effect
- ❑ Methimazole: anti-thyroid drugs

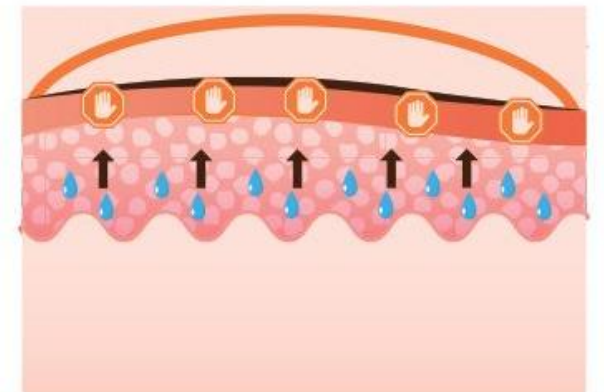
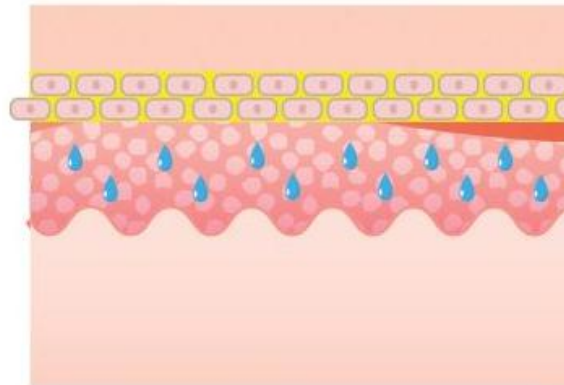
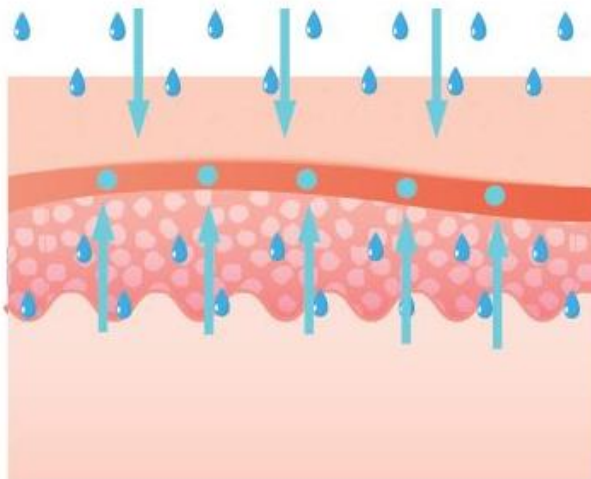
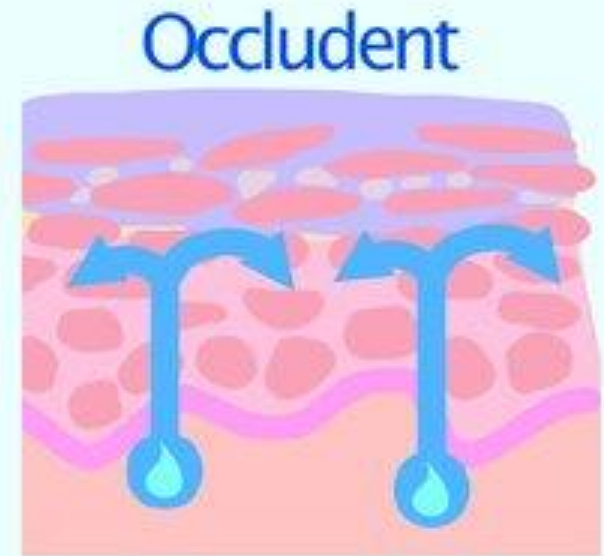
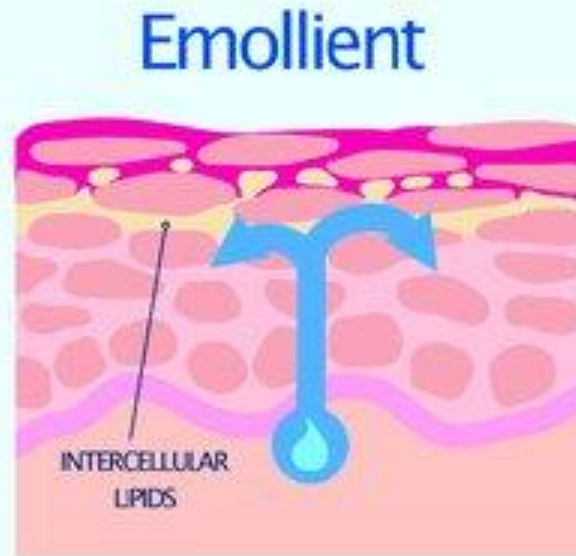
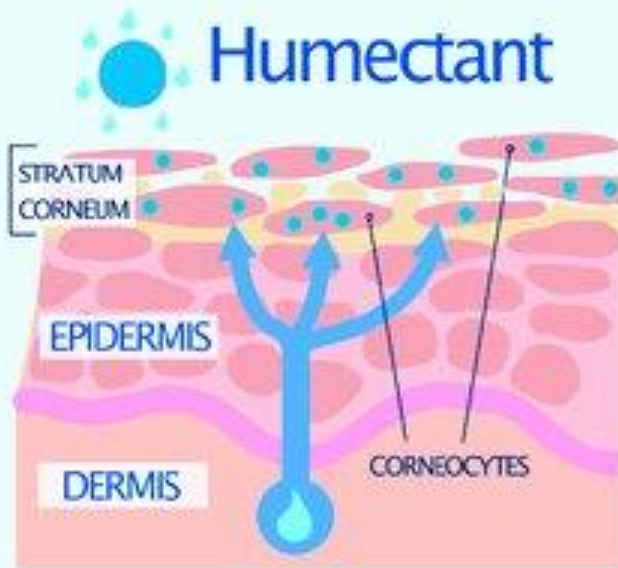


Moisturizer: Humectant, emollient, occludent

ดูด
Draw water skin

แทรกซึม
Soften skin

คลุม
Protective coating

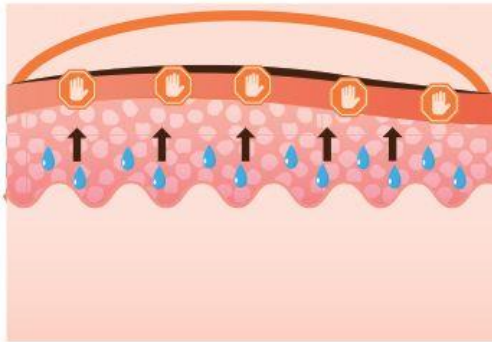


Moisturizer

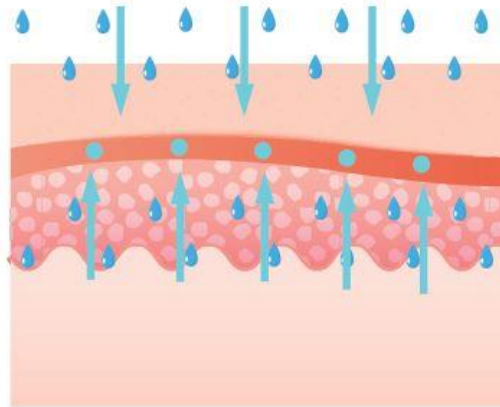
Occlusive

Humectant

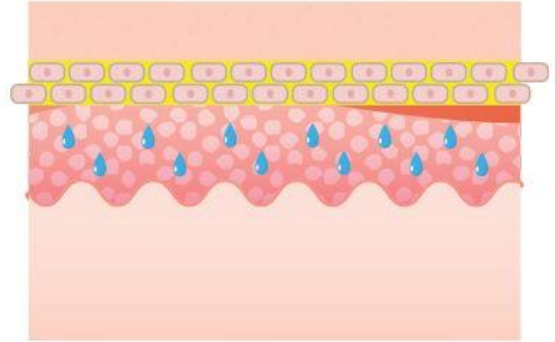
Emollient



Petrolatum,
Mineral oil



Glycerin,
Sodium PCA,
Hyaluronic acid,
Lactic acid, Urea



Fatty Acid,
Ceramides,
Butters



Moisturizers

- Humectant ดูด
- Emollient แทรกซึม
- Occlusive or occludent ปกคลุม
- Protein rejuvenators ชุบตัว



Humectant ดูด

Glycerin/Glycerol

Gelatin

Propylene glycol

Butylene glycol

Panthenol, sorbitol

Urea

Aloe vera

Hyaluronic acid

Glycolic acid

Lactic acid

Sodium(PCA)

pyrrolidine

carboxylic acid

Peptide



Emollient เทรกซึม

Cholesterol

Squalene

Linoleic acid

Stearic acid

Oleic acid

Fatty alcohols

Fatty acid

Sheer butter

Cocoa butter

Plant oil

Pseudoceramide

Ceramide



Occlusive or occludent ปกคลุม

White soft

paraffin/**Petrolatum**

Beeswax

Mineral oil

Dimethicone

Lanolin

Carnauba wax

Cetyl alcohol,

Caprylic/Capric

triglyceride

Silicone



Protein rejuvenators ชุบตัว

Rejuvenate(youthful glow)

Replenish skin,

Restore the skin protein structure

- Collagen
- Elastin
- Keratin



Role of moisturizer

- Moisturizing action
- Anti-inflammatory action
- Anti-microbial action
- Anti-mitotic action
- Anti-pruritic action
- Protective action



Moisturizers used, select

- ❑ **Dry skin: Occlusive**, (Humectant + Occlusive Moisturizers) > เลือกเนื้อสัมผัสครีมที่ชุ่มชื้นมากๆ
- ❑ **Oily skin: Humectant**, (Emollients + Humectants) > เลือกเนื้อสัมผัสเบา+ Oil free
- ❑ **Sensitive skin: Emollient** > หลีกเลี่ยงส่วนผสมที่มักก่อให้เกิดการระคายเคืองหรือคนส่วนใหญ่มักจะแพ้ + ทดสอบแพ้ก่อนใช้
- ❑ ทั้งนี้สามารถปรับเปลี่ยนได้ขึ้นอยู่กับผิวในช่วงนั้นๆและในผลิตภัณฑ์บางตัวนั้นก็มีส่วนผสมมากกว่า 1 กลุ่มอยู่ในตัวเดียวกันด้วย

Barrier preparations

- ❑ **Protective** equipment skin from
infection, skin allergy, redness,
irritation, dryness, environment trigger
- ❑ **Strengthening** sensitive skin
- ❑ **Restore** damaged skin



Barrier preparations เกราะป้องกันผิว

1. Aluminium acetate (Aluminium subacetate)
2. Mineral oil***
3. Olive oil***
4. Urea***
5. White petrolatum***
6. Zinc oxide
7. Zinc sulfate

