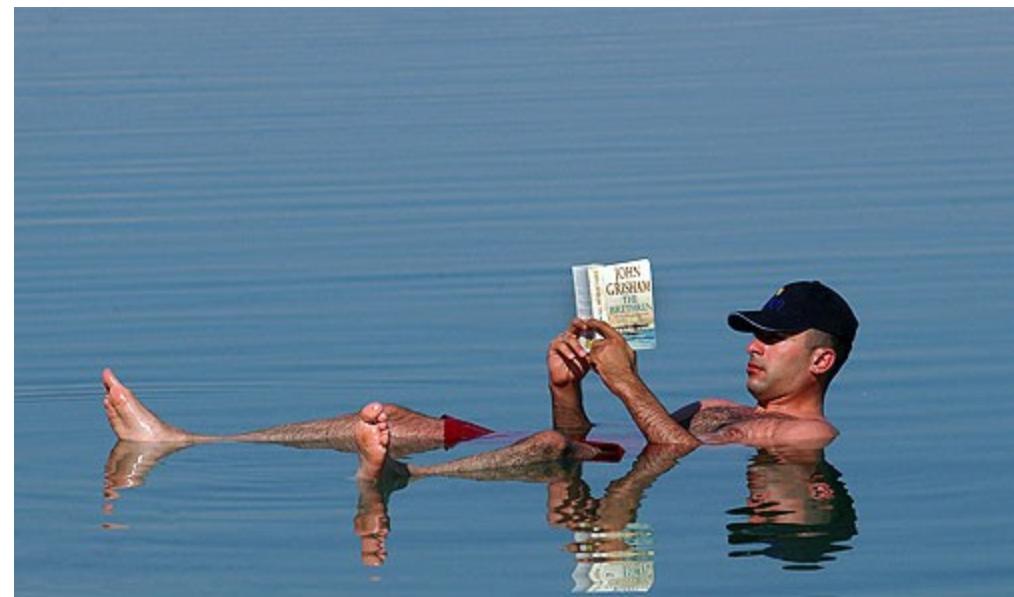


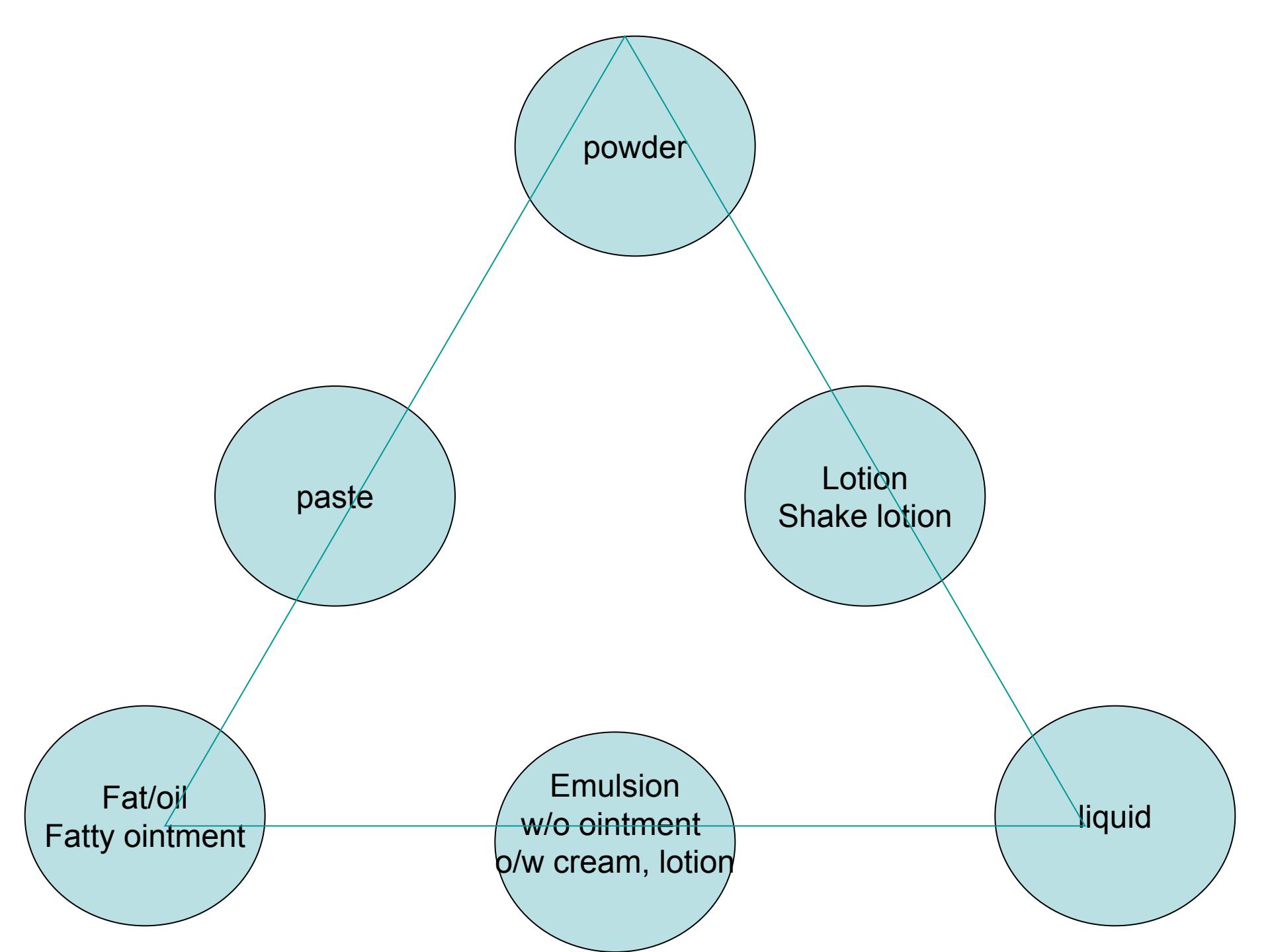
Treatment in dermatology



Treatment in dermatology

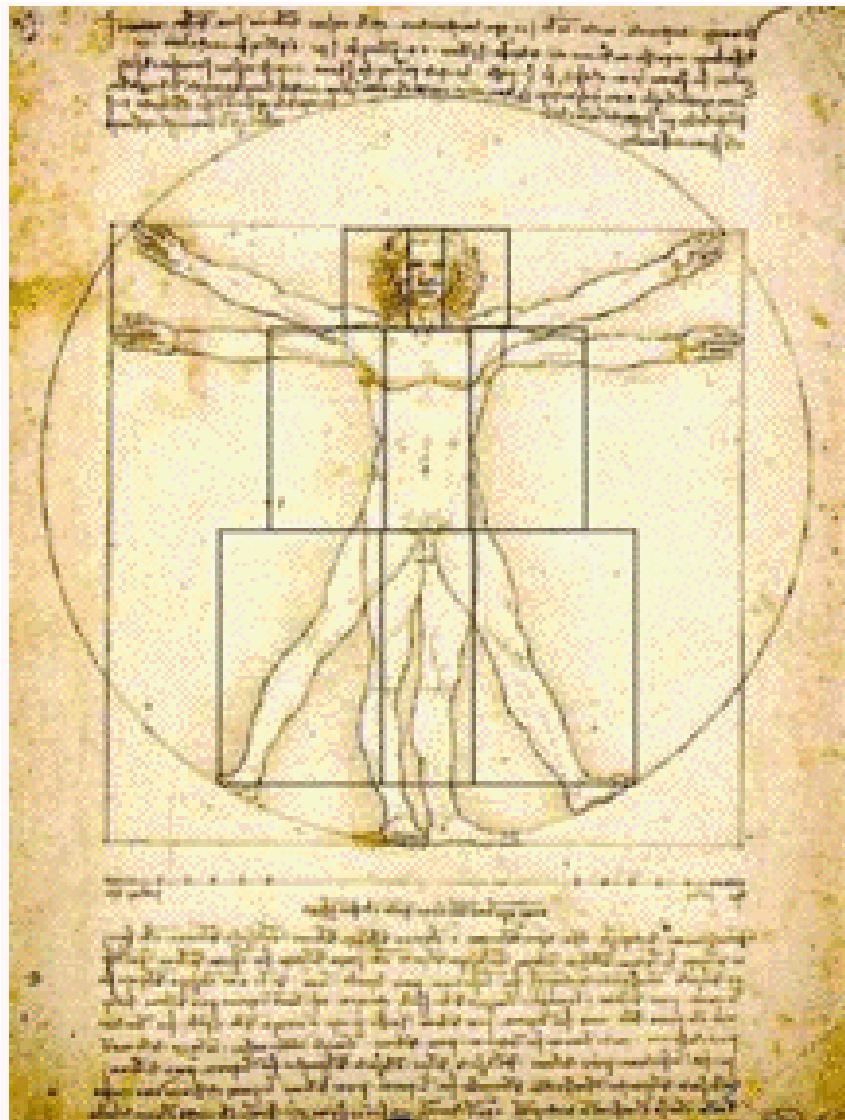
- Drugs - **topical**
 - systemic
- Surgery
- Physical therapy
 - phototherapy
 - cryotherapy
 - electrotherapy
 - laser
- Balneotherapy,
thalassotherapy





Topical therapy

- Correct diagnosis (tinea incognita, eczema herpeticum)
- Stage of the disease – acute, subacute, chronic
- Site of the body – face, palms, soles, scalp, intertriginous areas



Topical treatment in dermatology

- ATB – fusidic acid, mupirocin
- Antifungal drugs –
ciclopiroxolamin, miconazol,
terbinafin, clotrimazol
- Virostatics – acyclovir
- Parasiticides – permethrin,
- Retinoids – adapalene, tretinoin
- Vitamin D derivates – tacalcitol,
calcipotriol
- Immunomodulators – imiquimod
- Cytostatics – podophylotoxin, 5-fluorouracil



- Emollients - moisturizers
- Antiseptics - povidone iodine, chlorhexidin, kalium permanganate, polyhexanide, bleach (sodium hypochlorite)
- Astringents
- Keratolytics - salicylic acid, urea
- Coal tar
- Antimicrobial substances – chloroxine
- Immunosuppressives – tacrolimus
- **Corticosteroids**

Topical treatment formulations

- Aqueous solutions
- Baths
- Wet dressing
- Alcoholic solutions – tinctures
- Shampoos
- Sprays
- Powders
- Lotions
- Gels
- Pastes
- Oils
- Ointments and emulsions – fatty ointments x creams



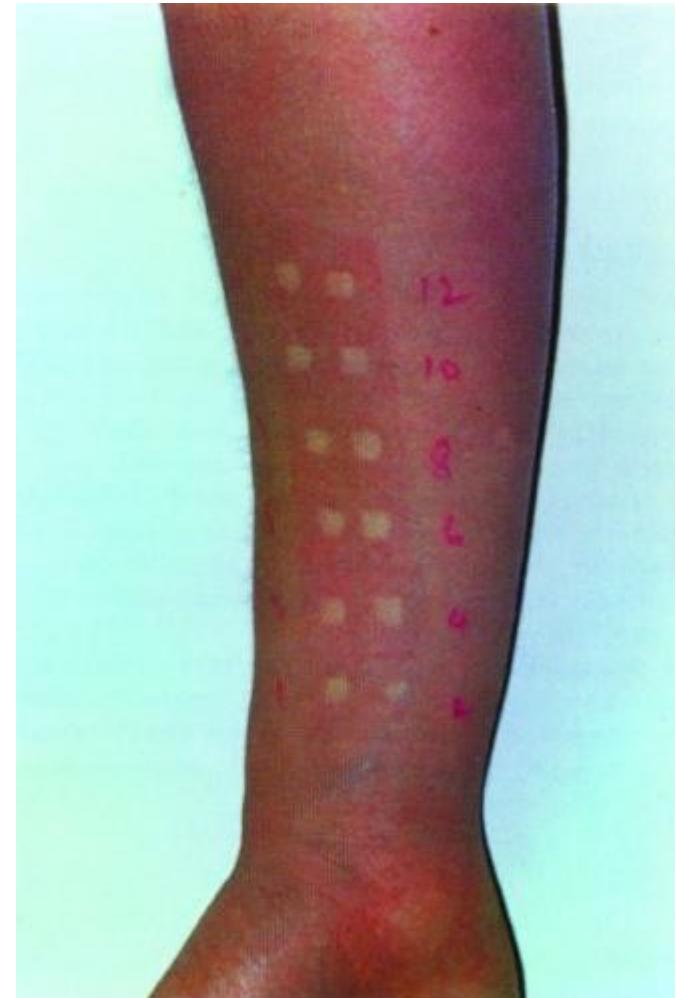
Topical treatment

- Antiperspirants
- Depilatory substances
- Sunscreens
- Depigmenting drugs
- Camouflage
- Varnishes
- Protective ointments
- Antiinflammatory drugs
- Transdermal patches



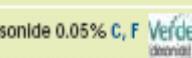
Topical corticosteroids

- Antiinflammatory effect (eczema, allergic reactions)
- Vasoconstriction
- Reduction of oedema
- Reduction of itch
- Antiproliferative effect (autoimmune diseases)
- Antiscarring effect



Corticosteroids - potency

- **Class IV]**
 - Very potent (up to 600 times as potent as hydrocortisone)
 - Clobetasol propionate (Dermovate Cream/Ointment, Exel Cream)
- **Class III**
 - Potent (50-100 times as potent as hydrocortisone)
 - Betamethasone valerate (Beta Cream/Ointment/Scalp Application, Betnovate Lotion/C Cream/C Ointment, Daivobet 50/500 Ointment, Fucicort)
 - Betamethasone dipropionate (Diprosone Cream/Ointment, Diprovate Cream)
 - Hydrocortisone 17-butyrate (Locoid C/Cream/Crelo Topical Emulsion/Lipocream/Ointment/Scalp Lotion)
 - Mometasone furoate (Elocon Cream/Lotion/Ointment)
 - Methylprednisolone aceponate (Advantan Cream/Ointment)
- **Class II**
 - Moderate (2-25 times as potent as hydrocortisone)
 - Triamcinolone acetonide (Aristocort Cream/Ointment, Viaderm KC Cream/Ointment, Kenacomb Ointment)
- **Class I**
 - Mild
 - Hydrocortisone 0.5-2.5% (DermAid Cream/Soft Cream, DP Lotion-HC 1%, Skincalm, Lemnis Fatty Cream HC, Pimafucort Cream/Ointment)

Structural Class	Class A: Hydrocortisone Type	Class B: Triamcinolone Acetonide Type	Class C: Betamethasone Type	Class D1: Betamethasone Dipropionate Type	Class D2: Methylprednisolone Aceponate Type
CLASS 7: LEAST POTENT	Hydrocortisone Hydrocortisone acetate Methylprednisolone, prednisolone Tixocortal pivalate				
CLASS 6: LOW POTENT		Desonide 0.05% C, F  Fluocinolone acetonide 0.01% C, S Triamcinolone acetonide 0.025% C Triamcinolone diacetate 0.025% C		Aclometasone dipropionate 0.05% C, O Betamethasone valerate 0.1% C	
CLASS 5: LOWER MID-STRENGTH		Desonide 0.05% O Fluocinolone acetonide 0.025% C Triamcinolone acetonide 0.1% C, 0.025% O, L Triamcinolone diacetate 0.1% C		Betamethasone dipropionate 0.05% L Betamethasone valerate C, L Fluticasone propionate 0.05% C	Hydrocortisone buteprate 0.1% C, O, S Hydrocortisone butyrate 0.1% C, O, S Hydrocortisone valerate 0.2% C Prednicarbate 0.1% C
CLASS 4: MID-STRENGTH		Amcinonide 0.1% C Fluocinolone acetonide 0.01%, 0.025% O Halcinonide 0.025% C Triamcinolone acetonide 0.1% O Triamcinolone diacetate 0.1% O	Clocortolone pivalate 0.1% C Desoximetasone 0.05% C	Betamethasone valerate 0.12% F  Clobetasone butyrate 0.05% Mometasone furoate 0.1% C, L	Hydrocortisone valerate 0.2% O
CLASS 3: UPPER MID-STRENGTH		Amcinonide 0.1% L Fluocinolide 0.05% Triamcinolone acetonide 0.1% C, O Triamcinolone diacetate 0.1% C, O		Betamethasone dipropionate 0.05% C Betamethasone valerate 0.1% O Clobetasone butyrate 0.05% Diflorasone diacetate 0.05% C Fluticasone propionate 0.005% O Mometasone furoate 0.1% O	
CLASS 2: HIGH POTENT		Amcinonide 0.1% O, L, C Budesonide 0.025% C Fluocinonide 0.05% C, O, G, S Halcinonide 0.1% C, O, S	Desoximetasone 0.25% C, 0.05% G	Betamethasone dipropionate 0.05% O, C Betamethasone valerate 0.1% Diflorasone diacetate 0.05%	
CLASS 1: SUPERPOTENT				Betamethasone dipropionate 0.05% G, O, L Clobetasol propionate 0.05% C, O, G, S, F  Diflorasone diacetate 0.05% O	

Side effects of corticosteroids

- Tachyphylaxis
- Rebound phenomenon
- Atrophy – striae distensae
- Interference with wound healing
- Vasoconstriction, telangiectasia
- Perioral rosacea like dermatitis
- Hypertrichosis
- Immunosuppression



