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Image Based MCQs in

Dermatology, Venereology & Leprology



Ramesh Bansal

JAYPEE

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3

CHAPTER

Availability of Commonly Used Drugs in Dermatology, Venereology and Leprology

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AGENTS FOR TOPICAL THERAPY (TABLE 3.1)

Table 3.1: Agents for topical therapy.

Pharmacological ingredients	*Trade names*	*Comments*
Emollients or moisturizing agents		
White soft paraffin and light liquid paraffin	Emoderm, Cutimax, Dermoys, Logisoft	• Urea containing emollients can cause irritation • Preferably applied on moist skin surface along the direction of hair follicles about 30 minutes before going outside and effect lasts for 4 hours
Glycerine 15%	Aquasoft, Adonia, Secalia	
Squalene, Aloe vera, vitamin E and others	Venusia, NMF-e cream, Alonurish, Dewderm	
Propylene glycol	Emolene	
Urea (7%), aloe vera 10%	NMF-e urea cream	
Glycolic acid, urea	Xerina	
Arachis oil	Olemessa oil	
Ammonium lactate 12%	Lacsoft	It increases the moisture of skin
Ceramide, cholesterol, free fatty acids	Oryza, Moisawave	
Face cleansing lotions		
Cetyl alcohol stearyl alcohol	Cetaphil	They emulsify desquamated cells, dust particles and other leftover substances. These are eliminated and give the skin a healthy appearance
Salicylic acid 2%	Saslic, Saliwash	
Aloe vera, glycolic acid, vitamin E	Ahaglow	
Multiple ingredients	Derclean, Alonurish	
Mandelic acid 2%, salicylic acid 1%	Mandisha, Acnelak	
Sunscreens		
Octinoxate (UVB filter), oxybenzone avobenzone (UVA filter), zinc oxide (inorganic filter)	Suncros 50, Melagard 50, UV AVO, Ultraguard, Rivela, Sunheal 50, Photoban gel, etc.	• Apply 30 minutes before going outdoors • Effect lasts for 3 hours • Repeat application if get washed off
Zinc oxide + Titanium dioxide	Zoray CPS	These are physical sun screens
Zinc oxide 20% gel	Zoray APS, La Shield Fisico	
Depigmenting agents		
Hydroquinone 2%	Ibglow ultra	• It takes many weeks to be effective • Avoid sun exposure • If redness or irritation is there, can be applied intermittently
Hydroquinone + tretinoin + allantoin	Skinlite ever, Melalong, Melapik Ever	

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Pharmacological ingredients	*Trade names*	*Comments*
Hydroquinone	Lumacip, Hyde cream/lotion	
Hydroquinone + Glycolic acid	Glyaha HQ	
Hydroquinone + sunscreens	Brite, Eslite-15, Melanorm-2, Melanorm-4	
Kojic acid + vitamin C cream	Clearz Plus	
Kojic acid + arbutin + octinoxate	Clearz Ultra, Carofit, Kojivit Plus	
Kojic acid + glycolic acid	Britelite, Glyaha-koj	
Glycolic acid 10%	Glyaha lotion, Glyco-A, Demelan	
Cysteamine 5% cream	Cystec	
Hydroquinone 2% + tretinoin + mometasone or hydrocortisone or flucinolone 0.01%	Cosmelite, Aret-HC, Melanorm MS, Lumacip Plus, Clears max	Avoid depigmenting agents containing steroids
Tranexamic acid once a day (significant effect in 2–3 months)	FixglowTx 500	Promising therapy with long-term benefits for stubborn melasma and other hyperpigmentation conditions
Antiacne agents		
Isotretinoin 0.05% gel	Sotret gel	Dryness and irritation are common. If it is there, it should be applied intermittently
Tretinoin 0.025%, 0.05%, 0.1%	Retino-A, Aret, Nexret, Nioret	
Tretinoin + clindamycin	Retino AC, Supatret C	
Adapalene 0.1%	Adiff, Adaret, Adaferin	
Adapalene + clindamycin	Faceclin-A	
Adapalene + Benzoyl peroxide	Epiduo, Peroduo, Oxidoben,	
Benzoyl peroxide	Benzac AC, Pernex AC Microbenz, Persol, Brevoxyl	Safe during pregnancy
Clindamycin	Clin-3	
Azithromycin or erythromycin	Azifast gel, Erytop	
Minocycline gel 4%	Minym gel	Avoided during pregnancy
Anti-rosacea agents		
Brimonidine tartrate 0.33%	Rosabril gel, Erythego (Once a day)	It is safe, effective with rapid onset for facial erythema of rosacea
Metronidazole 0.75% gel	Metrogyl gel 2%	
Topical Steroids		
Superpotent		
Clobetasol propionate ointment 0.05%	Tenovate, Topinate, Lozivate	• Topical steroids on face should be avoided • If applied, discontinue as early as possible

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Pharmacological ingredients	*Trade names*	*Comments*
Clobetasol propionate cream 0.05%	Clop, Topinate, Cosvate, Lobate	Ointments are more potent than creams
Halobetasol propionate ointment 0.05%	Ultravex, Halox, Halotop	
Potent		
Mometasone furoate 0.1% ointment	Elocon, Topcort	
Potent (upper-mid strength)		
Fluticasone propionate ointment (0.005%)	Flutopic, Flutivate, Lutiderm	
Clobetasone butyrate	Eumosone	
Potent (mid strength)		
Mometasone furoate 0.1% cream	Topcort, Momtas, MMS, Momate	
Fluocinolone acetonide 0.025%	Flucort	
Triamcinolone acetonide 0.1%	Ledercort	
Potent (lower mid strength)		
Fluticasone propionate cream 0.05%	Flutivate	
Hydrocortisone	Cutisoft, Lutica	
Desonide lotion 0.05%	Desowen lotion	
Least potent		
Desonide	Desowen cream	
Methylprednisolone aceponate 0.1% cream	Advantan, PH-MPA	
Topical steroids + SA		
Clobetasol propionate + SA	Topisal, Clop-S	These are useful for hyperkeratotic lesions
Halobetasol propionate + SA	Ultravex S6	
Beclomethasone dipropionate + SA	Lupiderm SA	
Keratolytic creams		
Salicylic acid 6% and 12%	Salicylix	
Antifungal creams		
Luliconazole 1	Lulifin, Ludura	Avoid use of antifungal cream containing steroids even in the initial phase of treatment. Net result of steroid creams is flare-up of infections
Clotrimazole 1%	Canesten, Candid, Kansel	
Miconazole 2%	Daktarin, Zole, Candistat, Dk gel	
Eberconazole 1%	Ebernet	
Sulconazole 1%	Exelderm	
Sertaconazole 2%	Sertacide, Sercos	

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Pharmacological ingredients	*Trade names*	*Comments*
Fluconazole 0.5%	Flucos gel	
Bifonazole 1%	Mycospor	
Oxiconazole 1%	Auxerg	
Ketoconazole	Nizral, Zykt	
Itraconazole cream 1%	Itrafen, Itratrox, Itrawel	
Terbinafine 1%	Terbest, Terbicip, Zimig, Tyza	
Butenafine 1%	Butenaskin, Fintop	
Amorolfine 0.25% cream	Amrobrut, Livafin, Fintop-AF	
Naftifine HCL 2% cream	Naftifast	
Ciclopirox Olamine 1%	8X, Batrafan, Candidox, Civaderm, Onabet	
Lipid-based amphotericin B gel 0.1%	Amfy Gel	
Antifungal lotions		
Luliconazole 1%	Lulifin, Ludura, Lulican	Lotions are useful for hairy areas and patients of chronic paronychia
Tolnaftate	Tinaderm	
Clotrimazole	Canesten, Surfaz, Candid	
Miconazole	Zole	
Selenium sulfide 2.5%	Selsun, Seldan	Apply once weekly at bed time for pityriasis versicolor
Amorolfine 5% nail lacquer	Loceryl (2.5 mL), Fintop NL	Apply at bed time with applicator brush on entire nail and 5 mm surrounding skin
Ciclopirox olamine 8% topical lotion	Penlac, Nail on	
Antifungal vaginal preparations		
Clotrimazole 100 mg	Canesten V6, Candid-V, Imidil vaginal, Surfaz	Inserted into vagina at bedtime and it get dissolves overnight
Clotrimazole + clindamycin	Candid CL, VH3	
Sertaconazole 500 mg	Sercos VT, Onabet V1	
Povidone iodine	Betadine vaginal	
Fenticonazole ovule 600 mg	Fenza	It is pregnancy category 'C" drug
Topical antifungal for oral cavity		
Clotrimazole mouth paint 1%	BNC, Candid	Used for oral candidiasis
Itraconazole oral solution 10 mg/mL (for oral and/or esophageal candidiasis)	Itratuf (100 mL bottle)	Swish the liquid around the oral cavity for 20 seconds and swallow. Do not rinse after swallowing. Dose: 200 mg (20 mL) per day in two intakes for 1 week

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Pharmacological ingredients	*Trade names*	*Comments*
Antibiotic creams		
Fusidic acid 2%	Fusibest, Fucidin, Futop	Antibiotic creams in combination with steroids give better results for the treatment of pyodermas
Mupirocin 2%	Bactroban, Supirocin, T-bact	
Nadifloxacin 1%	Nadibact,	
Povidone iodine	Betadine cream	
Framycetin sulfate 1%	Soframycin	
Sisomicin sulfate 0.1%	Ensamycin	
Silver sulfadiazine 1% cream	Silverex, Dibact	Commonly used for cutaneous burns
Ozenoxacin 1% cream	Ozefit, S-clear, Tigotreat	It is used for impetigo and is a novel, non-fluorinated quinolone that is safe and effective
Anti-scabies agents		
Permethrin 5%, 1%	Perlice, Scabper, Permite	Commonly used safe, effective and can be used during pregnancy (category B). Avoid below 2 months of age
Gama benzene hexachloride 1%	GAB, GBHC	Do not use during pregnancy and lactation
Benzyl benzoate 25%	Ascabiol	Not used nowadays
Crotamiton 10%	Crotorax	Weak anti-scabietic
Ivermectin cream 1%	Ivernol, Ivrea	Also used for the treatment of rosacea
Anti-psoriasis agents		
Coal tar 6% + SA 3%	Salytar-WS	Irritation is common side effect Use of these agents should be avoided in unstable psoriasis
Dithranol 1.15%	Derobin ointment	
Calcipotriol 0.005% ointment	Daivonex, Heximar, Pasitrex, Calpsor	
Calcipotriol + Clobetasol	Sorifix, Heximar-B, Calpsor C	
Tazarotene 0.05% and 0.1%	Tazret, Tazet Forte	
Tacalcitol ointment 4 µg/g	Tacalsis	Wash hands well after use It is vitamin D analogue
Methotrexate gel 1%	Folitrax LP gel	Clean and dry the affected area. Gently and thoroughly massage it into the skin. Be careful not to get the medication in your eyes or mouth
Immunomodulators (Calcineurin inhibitors)		
Tacrolimus (0.03% and 0.1%)	TBIS, Tacrotopic, Tacrel, Crolim, Tacroz	Do not use below 2 years of age
Pimecrolimus 1% cream	Pacroma, Picon	Should not be used below 3 months of age
Antipruritic or soothing agents		
Calamine 15% + ZnO 5%	Caladryl, Calak	Undesirably, it has drying effect on skin
Calamine + Aloe vera + light liquid paraffin	Calosoft, Allsuth, Calak-A Linical, Efatop-C	

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Pharmacological ingredients	*Trade names*	*Comments*
Shampoos		
Clotrimazole 1% + selenium sulfide 2.5%	Candid TV	Also used as a once-a-week overnight application on trunk to treat pityriasis versicolor
Ketoconazole 2%	Nizral, Arcolane, Novale	To be applied 5–10 minutes before bath twice or thrice a week
Ketoconazole + zinc pyrithione (ZPTO)	Danclear, Nuforce, Scalpe	
Ketoconazole + Coal tar + SA	Protar-k, Seboclear	
Ciclopirox 1% + ZPTO	8X shampoo	
Cetrimide solution 5%, 20%	Cetrilak	
Fluocinolone acetonide 0.01% (shampoo)	Sebowash	
Coal tar 1% + SA 3%	Salytar scalp lotion	
Clobetasol 0.05%	Powercort shampoo	
Antiviral agents		
Podophyllum resin paint	Podowart	Effective for genital warts
SA + lactic acid	Salex-L, Duofilm, Salactin	Effective for common warts, but not for genital warts
Imiquimod 5% cream (Imiquimod is an immune response enhancer that induces production of interferon and several other cytokines)	Imiquad, Nilwart, Zyclara	• Less efficacious for cutaneous warts • Used 3 times a week for 16 weeks
Acyclovir 5% cream	Herpex cream, Acivir, Ocuvir	Use only for patients of primary herpes genitalis. Not effective for recurrent herpes genitalis and herpes zoster
Topical anesthetics for oral application		
Triamcinolone acetonide oral paste 0.1%	Kenacort, Cinort, Triora	Apply after meals, in patients having lichen planus or mouth ulcers
Benzalkonium chloride 0.01%, choline salicylate 8.7%	Zytee	These are analgesic, antiseptic and apply them before meals
Choline salicylate 8.7% and lignocaine hcl 2%	Orasore	
Choline salicylate 8.7%, Tannic acid 5%	Orasep	
Benzalkonium chloride 0.01%, choline salicylate 8.7% and lignocaine HCl 2%	Dologel, Dentogel, Biosore	
Polidocanol 1%	Solcoseryl Dental Adhesive Paste	
Benzocaine 20%	Mucopain gel	
Benzocaine and cetylpyridinium	Cepacol Anesthetic, Protac, Bucalsep Solution	
Chlorhexidine 1%, metronidazole 1%, lignocaine 2%	Rexidine-M forte gel	
Topical antiseptics and anti-inflammatory agents for oral application		
Chlorhexidine gluconate 0.2%	Hexigel, Hexidine, Xedine	Take 15 mL of mouthwash, rinse thoroughly and expel after 30 seconds. These are used for removing and reducing the bacteria in the mouth
Chlorhexidine gluconate 0.2% Sodium fluoride 0.05% Zinc chloride 0.09%	Clohex ADS, Orahex plus	

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Pharmacological ingredients	*Trade names*	*Comments*
Miscellaneous		
Lidocaine + tetracaine	Viveta	Need to be applied for 30–40 minutes for anesthesia
Lidocaine + prilocaine	Prilox, Toplap	
5-fluorouracil 1%, 5%	Flonida cream	May cause irritation
20% aluminum chloride in alcohol	Noswet, Aldry	Used for hyperhidrosis. Applied over dry axilla at night
Formaldehyde	Formalin	1% soaks advised for soles (not suitable for palms and axillae)
Benzyl nicotinate, vitamin K, salicylic acid hair tincture	Folica, Folifast	It is effective in the treatment of alopecia areata
Decapeptide	Melgain, Melbild, Glendep, MHG	It is a basic fibroblast growth factor (bFGF) derivative used for inducing repigmentation
Estradiol	Evalon, Evolon, Vagimoist cream	Used to treat symptoms of menopause, e.g., vaginal burning, dryness and itching due to lack of estrogen

(SA: salicylic acid; UVB: ultraviolet B; UVA: ultraviolet; ZPTO: zinc pyrithion)

AGENTS FOR SYSTEMIC THERAPY (TABLE 3.2)

Table 3.2: Agents for systemic therapy.

Pharmacological ingredients	*Trade names*	*Comments*
Steroids		
Tablets		
Prednisolone 5, 10, 20, 30, 40 mg	Wysolone, Delsone, Deltacortril, Omnacortil	Low-dose or short-term period systemic steroids do not have significant side effect
Methyl prednisolone 2, 4, 8, 16 mg	Zempred, Predace, Macpred, Nicort, Nidcort-M	
Betamethasone 0.5 mg tablet	Betnelan, Celestone	
Triamcinolone 4 mg tablet	Kenacort, Tricort	
Deflazacort 1, 6, 12, 18, 24, 30 mg	Defza, Cortimax, Orthocort	
Dispersible tablets		
Prednisolone	Omnacortil 2.5, 5, 10, 20 mg	
Betamethasone 0.5 mg tablet	Betnesol	
Deflazacort	Defsco-6	
Syrups		
Prednisolone 5 mg/TSF	Kidpred, Omnacortil	
Prednisolone 15 mg/TSF	Omnacortil forte solution	
Deflazacort 6 mg/TSF	Defcort, Intracort, Dezo	

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Pharmacological ingredients	*Trade names*	*Comments*
Injections		
Dexamethasone 8 mg/2 mL/vial	Decadron, Dexona	
Hydrocortisone 100 mg/vial	Efcorlin, Wycort	
Triamcinolone acetonide 10, 40 mg vials	Kenacort, Tricort, Decort, Injicort	Very commonly used intralesional steroid
Methyl prednisolone 40 mg/mL	Depo-medrol (2 mL vial)	
Drops		
Betamethasone drops 0.5 mg/mL	Betnesol, Stemin, Celestone	
Prednisolone drops 5 mg/mL	Omnacortil	
Antiacne agents		
Isotretinoin 5, 10, 20, 30 mg	Isotroin, Iso-Aret, Acutret	Very effective especially for severe acne. It is teratogenic
Tetracycline	Resteclin, Hostacycline	Do not take with milk or milk products
Doxycycline HCl 100 mg	Doxitab, Doxt, Nixidox	Take once a day with/without food
Minocycline 50, 100 mg	CNN, Minolox, Cynomycin, Nidcyclin 50	
Azithromycin 500 mg	Azifast, Azee, Azithral	Can be used during pregnancy
Erythromycin 250, 500 mg	Althrocin	
Other antibacterial agents		
Benzathine penicillin 1.2, 2.4 megaunits	Penidure LA	First drug of choice for syphilis, but less commonly used because of risk of anaphylaxis
Levofloxacin 500, 750 mg	Lek, Levoflox, L-flox	Frequently used to treat urinary tract infections
Ofloxacin 200, 400 mg	Oflex, Ofbact	
Nitrofurantoin 100 mg tablet/cap	Furadantin, Urifast, Sysnit	
Cephalexin 125, 250, 500 mg	Ceff, Sporidex, Phexin	Very effective in treating pyoderma and soft tissue infections
Ceftriaxone injection 250, 1 g	Cefast, Cefaxone, Alof	Very effective in gonorrhea
Cefixime 400 mg	Cefi, Ceftas, Secef	Single tablet is a very effective oral treatment for gonorrhea as a part of syndromic management
Metronidazole tablet 200, 400 mg	Flagyl, Aldezole	Used to treat *Trichomonas vaginalis* and anaerobic infections
Secnidazole 1 g	Secnil Forte	
Ornidazole	Entamizole plus, Orni, Zil	
Antifungal agents		
Terbinafine 125, 250, 500 mg tablets (pregnancy category 'C')	Terbicip, Zimig, Terbest, Fintrix, Ifin	In spite of being fungicidal, terbinafine is not effective in all patients and recurrences are also common
Ketoconazole 200 mg tablet	Nizral, Hyphoral, Fungizole	
Itraconazole capsule 100, 200, 400 mg	Canditral, Onitraz, Syntran, Candiforce, Itaspor, Itralase	In adults: Usual dose is 100 mg BD
Voriconazole 50, 200 mg tablet	Voriva, Vfend, Vorizole, Vorifast	Serious side effects: Sudden behavioral changes, hepatitis, uneven heart rate, severe skin rash, fall in urine output

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Pharmacological ingredients	*Trade names*	*Comments*
Fluconazole tablet 50, 150, 200, 300, 400 mg	Zocon, AF150, Fusys, Forcan	Considered safe during breastfeeding
Griseofulvin 250, 500 mg	Grisovin, Dermonorm, Grisure, Zorbax, Ecovin	Drug of choice for tinea capitis
Griseofulvin syrup 125 mg/5 mL	Zorbax	Not recommended to use in children younger than 2 years
Amphotericin-B 50 mg injection	Phosome, Ambisome, Ampholip, Amfight, Abhope, Anolip	Reserved for severe infections/ immunocompromised patients mucormycosis, cryptococcal meningitis, visceral leishmaniasis, primary amoebic meningoencephalitis
Posaconazole 100 mg Tab	Posoxil GR	Used for aspergillosis, mucormycosis, candidiasis
Antileprotic and antitubercular drugs		
DDS	Dapsone 100 mg	Stop immediately if there is methemoglobinemia (blue coloration of lips) or hemolysis
Clofazimine cap 50, 100 mg	Hansepran, Lamprene, Clofros	Make aware the patient regarding coloration of skin and body secretions
Rifampicin 450, 600 mg	Rimactane, Rcin, Zucox	Patient passes red color urine
INH 300 mg	Tubernex Forte	Always supplement with pyridoxine
Rifampicin + INH	Rifacin, Rimactazid	
Ethambutol 200, 400, 600, 800 mg	Mycobutol, Myambutol, Combutol	Avoid in children, as it reduces visual acuity
Pyrazinamide 250, 500, 750 mg	Pza-Ciba	Common cause of exfoliative rash (1–2 weeks after initiation of therapy)
Pyridoxine	10, 40 mg tablet	Always supplement during ATT for prevention of peripheral neuritis
Thalidomide 50, 100, 200 mg cap	Thalix, Thyocad, Onchothal, Thaangio	Thalidomide is a potent teratogen. Use 2 forms of effective birth control together 4 weeks before, during, and for at least 4 weeks after your last dose. Other adverse effects are somnolence, paresthesia, constipation, peripheral neuropathy, bone marrow depression, blood clots, gynecomastia and weight gain
Drugs for hair disorders		
Ethinyl estradiol 0.035 mg Cyproterone acetate 2 mg	Diane 35,	Drospirenone is a preferred option for use in the treatment of PCOS
Ethinyl estradiol 30 µg drospirenone 3 µg	Yasmin, Crisanta	
Spironolactone 50 mg	Aldactone	Can be combined with OCPs
Finasteride 1 mg	Finpecia, Finax	Side effects of dutasteride and finasteride are similar include impotence, decreased sex drive, testicle swelling or pain. Dutasteride may also cause ejaculation disorder, breast enlargement, and breast tenderness. Both should be avoided during pregnancy. Both are used for prostate enlargement. Dutasteride hasn't received FDA approval for hair loss.

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Pharmacological ingredients	*Trade names*	*Comments*
Dutasteride 0.5 mg	Duprost, Dutastron, Duteron	
Flutamide 250 mg tablet	Drogenil	
Bromocriptine: Initially 1.25–2.5 mg PO (usual 2.5–15 mg)	Tab Parlodel, Sicriptin 2.5 mg, Cap Parlodel 5 mg	Indicated for treatment of dysfunctions associated with hyperprolactinemia including amenorrhea with or without galactorrhea, infertility or hypogonadism, prolactin-secreting adenomas, PCOS
Dutasteride lotion 0.025%	Dutamax	Dutasteride has been shown to treat and prevent hair loss. But, FDA has yet to approve it for this specific purpose
Minoxidil (2%, 5%, 10%)	Mintop, Coverit, Tugain, Morr	5% is not recommended in females
Vitamin K, Benzyl nicotinate, salicylic acid (hair tincture)	Folifast, Folica	
Minoxidil Tab 2.5 mg	Loniten, Lonitab	0.625 mg/d for women and 1.25 mg/d for men are common starting dosages
Eflornithine HCl cream (13.9%)	Elyn, Eflora	It slows the growth of facial hair and takes 4–8 weeks to show response
Antiviral agents		
Aciclovir 200, 400, 800 mg	Herpex, Ocuvir	Should be given at the earliest to prevent PHN
Aciclovir injection	Acivir IV 25/mL (10 mL amp)	
Famciclovir 250 mg	Famtrex, Microvir, Penvir	
Valaciclovir 500 mg, 1g	Valcivir, Zimivir, Valtoval, Valanext	
First generation antihistamines		
Hydroxyzine*	Atarax, Prugo, Hicope, Hyzine, HXZ, Zeerax	Tablet 10, 25 mg; syrup 10 mg/5 mL; drops 6 mg/mL; injection 25 mg/mL
Dexchlorpheniramine*	Polaramine	Tablet 2 mg, syrup 0.5 mg/5 mL
Promethazine**	Phenergan	Tablet 10 mg, 25 mg, elixir 5 mg/5 mL
Cyproheptadine*	Peritol, Trisolene, Cypolene	Tablet 4 mg, syrup 2 mg/5 mL, drops 1.5 mg/mL
Pheniramine	Avil	Tablet 25, 50 mg; syrup 15 mg/5 mL; injection 22.5 mg/mL
Second generation antihistamines		
Cetrizine*	Alerid	Tablet 10 mg, syrup 5 mg/5 mL
Levocetirizine*	Zyncet, Zipcet	Tablet 5, 10 mg; syrup 2.5 mg/5 mL
Loratadine*	Lorfast, Lorinol	Tablet 10 mg, suspension 1 mg/mL
Desloratadine**	Deslor	Tab 5 mg
Fexofenadine**	Allegra, Air	Tab 120, 180
Mizolastine	Elina	Tab 10 mg
Ebastine*	Ebast	Tab 10 mg
Bilastine*	Bilanix, Histabil, B-sys	Tablet 20 mg, Syp 2.5 mg/mL (not for below 6 years/20 kg body wt) 4 mL syrup/d in children.

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Pharmacological ingredients	*Trade names*	*Comments*
Some other drugs used for uremic and hepatic pruritus		
Ketotifen 1 mg tablet	Zaditen, ketasma	
Paroxetine	Pari 10,20, 30, 40, mg Pari CR 12.5, 25, 37.5 mg	These are a selective serotonin reuptake inhibitors (SSRIs). Besides their use as antidepressant, they are used for palliative care of itching due to various causes. Also used for menopausal flushing
Sertraline 50 mg tablet	Zosert, Serta	
Mirtazapine 7.5, 15, 30 mg tablet	Mirat, Mirtaneo, Mitocent	It is also used as an antidepressant
Naltrexone 50 mg tablet (an μ-opioid antagonist)	Nalcon, Naltima, Naltrex, Nodict	Used (50 mg/d) for cholestatic pruritus
Nalfurafine HCl (selective κ-opioid receptor agonist) 2.5 μg Cap	Remitch	Used for the treatment of hemodialysis-related uremic pruritus
Butorphanol 1 or 2 mg/mL 5 mL ampoules	Butodol, Butrum	It is also a κ-opioid receptor agonist. Can directly inhibit itch, especially opiate-induced itch
Ondansetron Tab: 4, 8 mg Syp: 2 mg/5 mL Inj: 2 mg/mL	Emeset, Emetron, Ondern, Osetron	It is a 5-HT_3 antagonist and is frequently used as an antiemetic
Doxepin 10, 25, 75 mg cap	Spectra, Oxipin, Doxin, Doxitar, Doxbrin	It is a tricyclic antidepressant. It can be used in an anxious urticarial patient
Doxepin cream 5%	Zonalon, Goldopin	Used in atopic dermatitis patients
Menthol 1% aqueous cream	Dermacool	Used for localized neuropathic itch
Pramoxine	Nevlon anti-itch, Atarax anti-itch lotion	Helpful for neuropathic pruritus
Ursodeoxycholic acid (UDCA)	Tab 300 (Udiliv, Ursocol), Tab 250, 500 (Ursodil, Ursofalk)	Promotes excretion of bile acids, starting dose 500 mg BD (max 10–15 mg/kg/d)
Cholestyramine (bile acid binding resin which forms an insoluble complex)	Prevalite, Questran (mix the powder with 60–180 mL of liquid)	Removes bile acids from body. Liver will make more bile acids from cholesterol. So, lowers cholesterol levels also. Take 1 pkt 1–2 times/d. Maintenance dose: 2–4 pkt (8–16 g)/d
Erythropoietin injection (single dose prefilled syringe)	Zyrop 4000 IU, Renocel 4000, 10000 IU/1.0 mL	Given S/C or I/V only
Oral activated charcoal	Acticoal 250 mg tablet	It is effective in the treatment of uremic pruritus (6 g/d)
Aluminum hydroxide Tab	Allumcare, Asinil-T	Aluminum hydroxide is used as antacid. It is also used to reduce phosphate levels to treat uremic pruritus
Topical capsaicin 0.025% cream	Kapsi gel 0.025%, Capsitop 0.025%, Zostrix 0.033%, Capsin 0.025%	When applied 4 times/d for 4 weeks gives marked relief in uremic pruritus and localized neuropathic itch
Omega-3 fatty acids	Osmega 300 mg, Omega-3, Ultra Seacod, Salmon Omega-3	It is helpful in treating nephrogenic pruritus. Fish oil, Cod liver oil, Walnuts, Soybean are natural resources

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Pharmacological ingredients	*Trade names*	*Comments*
Immunosuppressive drugs		
Tab methotrexate 2.5, 7.5 mg	Neotrexate, Folitrax Oncotrexate, Nidtrex-2.5	**Monitoring** • Complete blood count (CBC) every week • If patient develops leucopenia, give injection (S/C or I/M)) **filgrastim** (Neukine, Neupogen, Granix and Zarxio). It is also called as **granulocyte-colony stimulating factor (G-CSF)**. It stimulates the production of granulocytes. Neupogen injection is a sterile, clear, colorless, preservative-free liquid containing filgrastim. The product is available in single-use vials and prefilled syringes. The single-use vials contain either 300 µg/mL or 480 µg/1.6 mL of filgrastim. Filgrastim should be refrigerated. Remove from refrigerator 30 minutes before injection. Do not shake the medication. Protect from light • LFT and kidney function test every month
Inj methotrexate 25 mg/mL	Folitrax, Biotrexate (2 mL vial)	
Cyclophosphamide Tab 50 mg	Endoxan, Bdcyclo, Adcyclo	
Inj cyclophosphamide 200, 500 mg, 1 g vials	Cycloxan, Cyphos, Oncomide	
Tablet azathioprine 50 mg	Azoran, Imuran	
Cap cyclosporine 25, 50,100 mg	Psorid, Imusporin, Immusol, Pasilow, Arpimune, Zymmune	
Cyclosporine solution 50 mL	Neooral 100 mg/mL	
Mycophenolate mofetil 200, 500 mg tablet/cap	MMF, Baxmune, Cellmune, Mycept, Mycofit, Mycophen	
Tofacitinib (JAK1 and JAK3 inhibitor) 5, 11 mg tablet	Novanib-T, TFCT-NIB, Tofe, Tnib, Jantib-5	Used to treat rheumatoid arthritis, psoriatic arthritis and ulcerative colitis (diarrhea, headache and high blood pressure are common side effects. Infections, cancer and pulmonary embolism are serious ones)
Tofacitinib Oint 2%.	TFCT-NIB	It is used for atopic dermatitis, vitiligo, alopecia areata patients
Intralesional immunotherapy/cytotoxic agents for warts		
MMR vaccine	Tresivac, Priorix	Injected I/L 0.25 mL in per lesion
Inj. Bleomycin 15, 30 units	Metbleo, Bleocel	Can be injected I/L in the conc. of 1 mg/mL
Tuberculin purified protein derivative (PPD)		10 TU of tuberculin PPD (0.1 mL) intralesional in the largest wart at 2 weekly intervals for maximum of 6 sessions
Systemic immunotherapy		
Intravenous immunoglobulin (IVIG) 5% 100 mL (5 g)	ImmunoRel, PlasmaGlob, Plasmagen Gammagard, carimune, Gammplex	400 mg/kg/d for 2–5 d. Contraindicated in patients having IgA deficiency
Zinc sulfate	Z-life, Zitcare forte, Roczin	10 mg/kg (2.5 mg /kg/d elemental zinc) is used for recalcitrant warts
Biological agents		
Rituximab	Rituxipca 500 mg/50 mL vial (MRP: ₹ 39,000/-)	Used in pemphigus 375 mg/m^2 body surface IV slowly in 5–7 hours
Adalimumab	Adalipca given S/C 40 mg/0.4 mL in prefilled syringe, MRP: Rs 25000/	Used in moderate to severe plaque psoriasis, 80 mg on day 1, 40 mg on day 8, then 40 mg/week
Vitamins, calcium, potassium and zinc		
Tablet vitamin D3 (cholecalciferol 60,000 IU)	Kalzin 60K, Tayo, Calcirol	Patients on systemic steroids and old patients should be supplemented
Drops vitamin D3 (400 IU/mL)	Kalzin, Wal-D3 DS	It is recommended (1 mL/day) for all fully or partially breastfed newborns up to 1 year of age
Tablet vitamin D3 + calcium citrate malate	GCS, Milical, Revocal	Calcium alone does not prevent bone loss in patients receiving systemic steroids

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Pharmacological ingredients	*Trade names*	*Comments*
Suspension vitamin D3 + calcium citrate malate	Calday Susp	
Vitamin E cap 200, 400, 600 mg	Ephynal, Evion	It has nonspecific role in the treatment of epidermolysis bullosa, cutaneous ulcers and yellow nail syndrome
Vitamin E drops 50 mg/mL	Evion drops	
Biotin	H-Vit Forte, BTN, Essvit	Used for thin brittle fingernails
Vitamin C 500 mg tablet	Celin, Chewee, Limcee	Used to treat photoaging, hyperpigmentation and promotes tissue healing
Vitamin A (50,000 IU)	Arocap, Arovit drops (150,000 IU/mL)	Used to treat phrynoderma, Darier-White disease and PRP
Folic acid	Sysfol, Folvite	Supplement patient receiving methotrexate
Vit B-3 Niacin 1000 mg tablet	Niacin-NF Initial dose: 500 mg HS Maintenance: 1000–2000 mg HS	Used for intermittent claudication, stasis dermatitis. It might slow blood clotting and increases the risk of bleeding
Nicotinamide 500 mg	Nialip tablet	500 mg/d for several weeks to treat pellagra
Multivitamin drops	Abdec, Becadex	
Zinc syrup	5 mg/Tsf: Syrup Zemin, 20 mg/TSF: Syrup Zemin 20, Zincris, Ascazin	Excessive intake of calcium can interfere with normal absorption of zinc
Zinc drops	Zevit drops	
Potassium chloride oral solution 0.5 g/5 mL	Potchlor, Keylyte (Take Potklor with a full glass of water just after a meal)	Used to treat hypokalemia resulting from: diuretics, steroid therapy, diarrhea, vomiting, etc.
Analgesics		
Tramadol Hydrochloride 37.5 mg+ Acetaminophen 325 mg Tab	Ultracet, Ultram	Preferred drug for renal disease patients
Agents for PHN		
Carbamazepine 100, 200, 300, 400 mg tablet	Mazetol, Tegretol, Zen	• They are used for many weeks • Patient may complain sedation
Amitriptyline 10, 25, 50, 75 mg tablet	Tryptomer, Sarotena	
Gabapentin 100, 300 mg	Cap Gabapin	
Pregabalin 75, 150 mg	Pregab, Gabanext	
Pregabalin 75 mg + Nortriptiline 10 mg	Pregagsis NT	
Pregabalin 75 mg + Methylcobalamin	ME-PR, Revlin M, Pregab-M	
Pregabalin 75 mg + Methylcobalamin 1500 µg + Nortriptyline 10 mg Tab	Pregabid MNT, Nervite plus, Dubinor	
For vascular disorders/ digital ischemia		
Pentoxifylline 400 mg tablet	Trental	It is given for at least 8 weeks. Ineffective for peripheral arterial disease
Oxerutins 250, 500 caps	Paroven	It reduces capillary leakage and helps in reducing pedal edema

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Pharmacological ingredients	*Trade names*	*Comments*
Cilostazol 50, 100 mg caps	Stiloz, Cilodoc, Cilotab	Used in treatment of intermittent claudication. Avoided in CHF patients
Acetylsalicylic acid	Aspirin, Colsprin 100 mg, Ecosprin 75, 150, 325 mg	Helpful in both venous and arterial peripheral vascular diseases
Acetylsalicylic acid + Clopidogrel	Cap (Myogrel AP-75, Combiplet, Plagril A 75), Tab (Ecosprin C75, Clodrel plus)	It is antiplatelet (antithrombotic)
Sildenafil 50 mg tablet	Bigfun, Caverta	These agents relax vascular smooth muscle and have vasodilator effect which treat digital ischemia
Captopril tablet 12.5, 25 mg (ACE inhibitor)	Aceten, Angiopril, Captril	
Nifedipine 5,10, 20 mg (10-20 mg QID)-Short acting Ca channel blocker	Depin	
Amlodipine-long acting Ca channel blocker	Amcard, Amdepin, Amlip 2.5, 5, 10 mg	
Bosentan 62.5 mg (endothelial receptor antagonist)	Bosentas, Bozetan, Bosenat, Lupibose	Prevents new digital ulcer formation
Drugs for Psoriasis and vitiligo		
Acitretin 10, 25 cap	Aceret, Acetec, Acrotac, Sorid, Acitrin, Acetroin-25	It is a retinoid and does not suppress immune system. Drug of choice for generalized pustular psoriasis
Apremilast 30 mg tablet	Aprezo, Apraise, Aprimila	• Do not crush, split or chew the tablet before taking it • Concomitant intake of phenytoin, rifampicin, Carbamazepine decreases its efficacy
8-MOP 10 mg tablet	Melanocyl, Octamop	First-line systemic drug for extensive psoriasis especially young patient
Methoxsalen 1%	Melanocyl solution, Octamop solution	Dilute with eau de cologne/spirit/water. Then apply 30 min before sun exposure for 2 min. Increase by 1 min every day
TMP 5, 25 mg tablet	Neosoralen, Soralen Desoralen, Trimop, Sensitex	Very good systemic drug for vitiligo. Avoid below 12 years age
Monobenzone 20%	Benoquin	Used for depigmentation of remaining pigmented skin in patients of universal vitiligo
Miscellaneous		
Ivermectin 3, 6, 12 mg tablet	Ivecop, Iverpil	Used in combination with topical therapy for scabies and pediculosis
Levamisole 50, 150 mg tablet	Decaris, Vemisol, Dewormis, Vapal	Potent immunomodulatory action: utilized for warts, leprosy, Behcet's disease, aphthous ulcers, etc. Skin rash, nausea, vomiting, headache and agranulocytosis are its side effects
Miltefosine 50 mg cap	Impavido	Do not crush or chew. Take with food. It is used for leishmaniasis
Adrenaline/epinephrine	1 mL (1 mg) ampule	Give 0.5 mg/0.5 mL IM as lifesaving drug for anaphylaxis or angioedema

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Pharmacological ingredients	*Trade names*	*Comments*
Chloroquine 250 mg	Lariago, Emquin, Resochin Nivaquine	They are safe and long-term side effects are very minimal
Hydroxychloroquine tablet 200, 400 mg	Hydrocad, HCQS, Nid-Q 200	
Sulfasalazine 500 mg, 1 g Initially 500 mg/d, increase by 500 mg/week to 1,500–3,000 mg/d	Saaz, Sazo Avoid use with Azathioprine, Digoxin, Warfarin, Hypoglycemic drugs	It is useful in dermatology when standard therapy does not work or contraindicated, e.g., in Ps, LP, AA, pemphigus, etc.
Colchicine 0.5 mg tablet Adverse effects are the most frequent and include diarrhea, nausea, vomiting, and abdominal pain, Bone marrow suppression, myopathy	Zycolchin, Colchicindon, Goutnil, Colchicine Do not use with ketoconazole, Itraconazole, azithromycin, Digoxin, Anti-HIV drugs, Simvastatin, Cyclosporine, Verapamil	Effective in erythema nodosum leprosum, pyoderma gangrenosum, severe cystic acne, keloids, sarcoid, condyloma acuminata, erythema nodosum, scleroderma, and actinic keratosis
Pimozide	Larap 2, 4; Mozep 2; Orap 4, 10; Pimodac 4 mg	Useful for delusion of parasitosis
D-penicillamine 150, 250 mg Caps	Cilamin	Used in the treatment of Wilson's disease, rheumatoid arthritis, Scleroderma
Injection botox (100 units)	Neuronox (Ranbaxy)	

Food and Drug administration (FDA) Pharmaceutical Pregnancy Categories

*Category B: Animal reproduction studies have failed to demonstrate a risk to the fetus, and there are no adequate and well-controlled studies in pregnant women.

**Category C: Animal reproduction studies have shown an adverse effect on the fetus, and there are no adequate and well-controlled studies in humans.

(DDS: 4,4′ diamino diphenyl sulphone; INH: Isonicotinic acid hydrazide; ATT: antitubercular treatment; OCPs: oral contraceptive pills; PHN: post-herpetic neuralgia; CBC: complete blood count; LFT: liver function test; 8-MOP: 8-methoxy psoralen; TMP: trimethoxy psoralen; IM: intramuscular)

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- Trade names and pharmacological names of commonly used drugs in dermatology have been given in a tabulated form in a separate chapter.

Ramesh Bansal, a Pioneer Dermatologist, passed both MBBS (batch 1978) and MD from Pt BDS PGIMS, Rohtak, Haryana, India. Later, he worked as a Registrar in the Department of Skin, VD and Leprosy, Pt BDS PGIMS, Rohtak. He has served as the President of Association of Haryana Branch of the Indian Association of Dermatologists, Venereologists, and Leprologists (IADVL) in 1998 and President of Indian Medical Association of Rohtak City Branch in 2003. He was awarded with *Lifetime Achievement Award* in Haryana State Conference in November 2022, at Kasauli, Himachal Pradesh, India, for outstanding contribution in the field of dermatology. He has published more than 20 articles (10 during practice) in national and international journals. He has written two books for undergraduates and postgraduates, published by M/s Jaypee Brothers Medical Publishers (P) Ltd, New Delhi, India. 1st edition of first book *Essentials in Dermatology, Venereology, and Leprology* was released in December 2014. 1st edition and 2nd edition of second book *Pocket Atlas of Clinical Dermatology with Diagnosis and Treatment* was released in January 2017 and January 2023, respectively. *Basics in Dermatology, Venereology, and Leprology for undergraduates* is under publication. He has launched his YouTube Channel—*Dr Ramesh Bansal* with 15 videos with >5 lakhs views and >7,640 subscribers. Now, he is actively working in a private sector at Rohtak since 1990.

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