Drug-induced purpura

- 1. ยามีผลต่อ coagulation เช่น cephalosporins บางตัว
- 2. หรือทำให้เกร็ดเลือดต่ำลงโดยกลไกทางอิมมูนวิทยา เช่น quinidine หรือ ไม่ใช่กลไกทางอิมมูนวิทยา เช่น cytotoxic drug
- 3. ทำให้เกร็ดเลือดทำหน้าที่ผิดปกติ เช่น valproic acid
- 4. ทำให้เส้นเลือดเปราะ และเนื้อเยื่อที่พยุงหลอดเลือดลดลง เช่น steroid induced purpura
- 5. ยาบางชนิดจะทำให้เกิดเส้นเลือดอักเสบ เช่น allopurinol



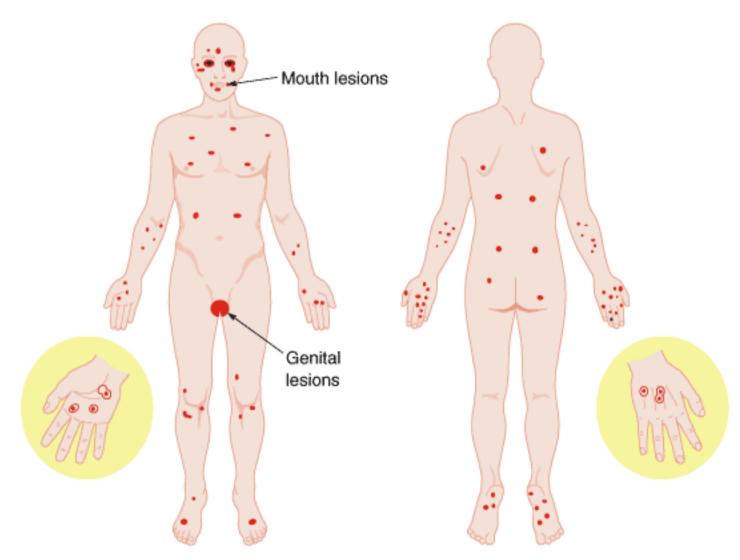
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Drugs Associated with Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis

Drugs Most Frequently Associated*

Sulfadoxine

Sulfadiazine

Sulfasalazine

Co-trimoxazole

Hydantoins

Carbamazepine

Barbiturates

Benoxaprofen

Drugs Also Associated

Cephalosporins

Fluoroquinolones

Vancomycin

Rifampin

Ethambutol

Fenbufen

Tenoxicam

Tiaprofenic acid

Drugs Associated with Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis

Drugs Most Frequently Associated*

Drugs Also Associated

Phenylbutazone

Diclofenac

Isoxicam

Sulindac

Piroxicam

Ibuprofen

Chlormezanone

Ketoprofen

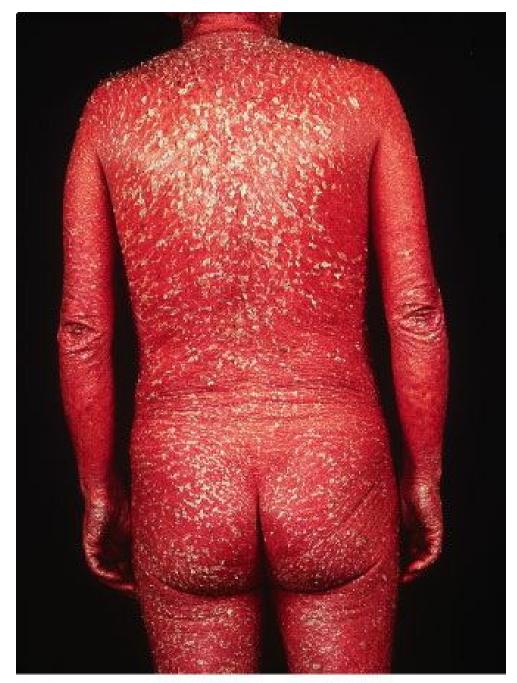
Allopurinol

Naproxen

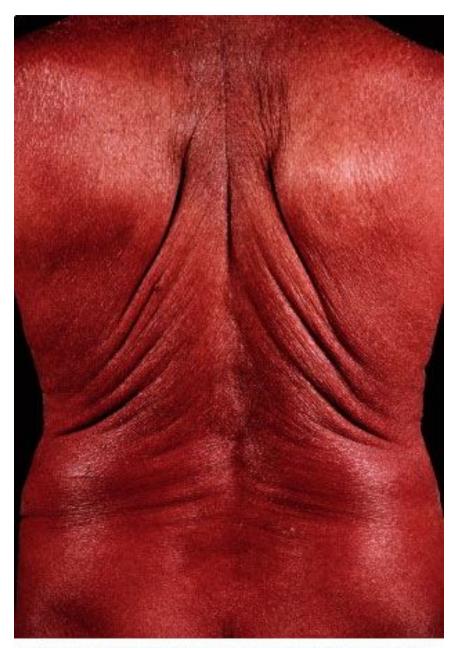
Amithiozone

Thiabendazole

Aminopenicillins



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Drugs That Cause Exfoliative Dermatitis

Allopurinol* Indinavir

Aminogly cosides Isoniazid

Antimalarials Phenytoin

Aztreonam Rifampicin

Bactrim Barbiturates Sulfasalazine

Calcium channel blockers Sulfonamide antibiotics

Captopril Sulfonylureas

Carbamazepine Thiazide diuretics

Dapsone Vancomycin

Ethambutol



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Drugs causing erythema nodosum

Sulfonamides

Bromides and iodides

Oral contraceptives

Other: minocycline, gold salts, penicillin, salicylates



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The following drugs are capable of inducing hyperpigmentation of skin and/or mucosa:

Antiarrhythmic: amiodarone

Antimalarial: chloroquine, hydroxychloroquine, quinacrine, quinine

Antimicrobial: minocycline, clofazimine, zidovudine

Antiseizure: hydantoins

Cytostatic: bleomycin, cyclophosphamide, doxorubicin, busulfan, 5-fluorouracil, dactinomycin

Heavy metals: silver, gold, mercury

Hormones: adrenocorticotropic hormone (ACTH), estrogen/progesterone

Psychiatric: chlorpromazine



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Most Commonly Implicated Agents in Fixed Drug Eruptions

Antimicrobial agents

Tetracyclines (tetracycline, minocycline)

Sulfonamides, including "nonabsorbable" drugs;

cross-reactions with antidiabetic and diuretic sulfa drug may occur

Metronidazole

Nystatin

Most Commonly Implicated Agents in Fixed Drug Eruptions

Anti-inflammatory agents

Salicylates

NSAIDs

Phenylbutazone

Phenacetin

Psychoactive agents

Barbiturates, including Fiorinal Quaalude, Doriden

Oral contraceptives

Quinine (including quinine in tonic water), quinidine

Phenolphthalein

Food coloring: in food or medications



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Drug-induced Hypertrichosis

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minoxidil (80% of those treated),
diazoxide (50%),
phenytoin (occurs after 2–3 months of treatment),
cyclosporine (80%),
PUVA,
oral glucocorticoids,
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Stevens- Johnson syndrome (SJS)& Toxic epidermal necrolysis (TEN)

SJS&TEN

severe idiosyncratic rxn, triggered by medications fever, mucocutaneous lesions -> necrosis แยกจากกันโดย % of BSA

SJS

less severe condition skin sloughing < 10% of BSA malaise, fever → erythematous/purpuric plaques mucosal involvement ≥ 2 sites

TEN (Lyell's syndrome)

sloughing of skin ≥ 30% fever > 39 °C, malaise → diffuse erythema * skin pain → necrosis

~ burn

SJS/TEN overlap syndrome

BSA 10-30%

Etiologies

Medication → SJS&TEN in both adults, children In pediatrics case of SJS : Mycoplasma pneumonia, HSV infection

Medications

Risk factors

1.HIV infection 3-4 เท่า: multiple medications slow acetylations immune dysregulation concomitant infection

2. Genetic factors

HLA-B *1502 : carbamazepine, other aromatic convulsant
Lower N-acetylation capacity (slow acetylation)

3. Malignancy