

Medications to Avoid

Analgesics / Antipyretics

acetanilid, acetophenetidin (phenacetin), amidopyrine (aminopyrine)*, antipyrene*, aspirin*, phenacetin, probenecid, pyramidone

Miscellaneous

alpha-methyl dopa, ascorbic acid*, dimercaprol (BAL), hydralazine, mestranol, methylene blue, nalidixic acid, naphthalene, niridazole, phenylhydrazine, toluidine blue, trinitrotoluene, urate oxidase, vitamin K* (water soluble), pyridium, quinine*

Antimalarials

chloroquine*, hydroxychloroquine, mepacrine (quinacrine), pamaquine, pentaquine, primaquine, quinine*, quinocide

Cytotoxic / Antibacterial

chloramphenicol, co-trimoxazole, furazolidone, furmethonol, nalidixic acid, neoarsphenamine, nitrofurantoin, nitrofurazone, para-aminosalicylic acid

Cardiovascular Drugs

procainamide*, quinidine*

Sulfonamides / Sulfones

dapsone, sulfacetamide, sulfamethoxypyrimidine, sulfanilamide, sulfapyridine, sulfasalazine, sulfisoxazole

Miscellaneous to Avoid

Fava Beans

(Few also avoid red wine, all legumes, blueberries [and yogurts containing these], soya products, tonic water).

Safe to take

But only in normal therapeutic doses [!!!]

(Quoted from Ernest Beutler, M.D., "Glucose-6-Phosphate Dehydrogenase Deficiency," in *Erythrocyte disorders: Anemias due to increased destruction of erythrocytes with enzyme deficiencies*, p. 598.)

Acetaminophen (paracetamol, Tylenol, Tralgon, hydroxyacetanilide),
Acetophenetidin (phenacetin),
Acetylsalicylic acid (aspirin)*,
Aminopyrine (Pyramidon, amidopyrine)*,
Antazoline (Antistine),
Antipyrene*,
Ascorbic acid (vitamin C)*,
Benzhexol (Artane),
Chloramphenicol,
Chlorguanidine (Proguanil, Paludrine),
Chloroquine*, Colchicine,
Diphenhydramine (Benadryl),
Isoniazid, L-Dopa,
Menadione sodium bisulfite (Hykinone),
Menaphthone, *p*-Aminobenzoic acid,
Phenylbutazone, Phenytoin,
Probenecid (Benemid),
Procain amide hydrochloride (Pronestyl)*,
Pyrimethamine (Daraprim),
Quinidine*, Quinine*,
Streptomycin,
Sulfacytine, Sulfadiazine,
Sulfaguanidine,
Sulfamerazine,
Sulfamethoxypyridazine (Kynex),
Sulfisoxazole (Gantrisin),
Trimethoprim,
Tripelethamine (pyribenzamine),
Vitamin K*.

* These drugs appear in both lists. Most prefer to avoid them altogether. If you do take these, please remember to take only normal therapeutic doses.

G6PD Deficiency Reference Guide

What is G6PD Deficiency?

Glucose-6-phosphate dehydrogenase (G6PD) deficiency is the most common human enzyme deficiency; it affects an estimated 400 million people worldwide.

G6PD deficiency is also known as "favism," since G6PD deficient individuals are also allergic to fava beans.

G6PD deficiency is a genetic condition that is inherited in an X-linked recessive fashion. This means that males are more likely to be affected by this condition than are females. Genetic testing is available to identify a deficiency in G6PD in both males and females.

It is very important to tell any doctor or other health professional (such as nurse or pharmacist) that you have G6PD Deficiency to avoid a possible harmful reaction to treatments they might prescribe.

What happens if you have G6PD Deficiency?

Hemolytic anemia and prolonged neonatal jaundice are the two major problems associated with G6PD deficiency. Both of these problems are directly related to the inability of specific cell types to regenerate a molecule called nicotinamide adenine dinucleotide phosphate in its reduced form (NADPH); this reaction is normally catalyzed by the G6PD enzyme. Aside from neonatal jaundice, hemolytic anemia can only arise when a person with G6PD Deficiency is exposed to certain chemicals; otherwise, they live a normal life.

Hemolytic anemia is the decreased ability of red blood cells to transport oxygen throughout the body; consequently, if you are having a hemolytic crisis, you will probably feel tired and out of breath, and may have a dark colored urine. Certain oxidative drugs, infections, or fava beans (and the pollen from the fava bean plant) can cause this. When any one of these agents enters the red blood cell, hemoglobin becomes denatured, thus destroying its function as the principle oxygen carrying molecule.

In normal cells, NADPH would play a role in removing these harmful oxidants from the cell. Among the drugs

Sources:

Ernest Beutler, M.D., Prof. Lucio Luzzatto, Prof. P. Marradi, Italian Health Ministry.

