

Dapson, dapsone

Dapson wirkt durch die antimetabolitische Hemmung der Folsäuresynthese z.B. bei [Mykobakterien](#) antibiotisch und entzündungshemmend.

Dapson sollte nur in Kombination mit anderen Präparaten angewendet werden, z.B. mit [Rifampicin](#) oder Clofazimin.

Behandlungs- und Präventions – Indikation bei **Dapson** sind Lepra, Malaria, Actinomyceten-Infektionen, Pneumocystis jirovecii-Pneumonien, HIV, chronisch verlaufenden Lyme Borreliose sowie chronisch entzündliche und auch blasenbildende Autoimmunerkrankungen wie Dermatitis herpetiformis Duhring, Linearen IgA-Dermatose, Subcorneale pustulöse Dermatose, Erythema elevatum diutinum, Gelenkrheumatismus.

Nebenwirkungen von **Dapson** sind dosisabhängige Hämolysen und Methämoglobinämie, vor allem bei dem [Glukose-6-Phosphat-Dehydrogenase-Mangel](#).

Dapsone acts through the inhibition of folic acid synthesis specifically in mycobacteria antibiotic and anti-inflammatory.

Dapsone may only be used in combination with other medicines, for example, rifampicin or clofazimine.

Treatment and prevention - indications are: leprosy, malaria, actinomycetes infections, Pneumocystis jirovecii pneumonia, HIV, chronicity of the Lyme disease and chronic inflammatory and vesiculobullous autoimmune diseases such as dermatitis herpetiformis, linear IgA disease, Subcorneale pustular dermatosis erythema elevatum diutinum, rheumatoid arthritis.

Side effects of **dapsone** are dose-dependent hemolysis and methemoglobinemia, especially in the [glucose-6-phosphate dehydrogenase deficiency](#).

Jing Z, Zhang R, Zhou D (2009) **Twenty five years follow up of MB leprosy patients retreated with a modified MDT regimen after a full course of dapsone mono-therapy.** Lepr Rev 80, 170-176.

Pickert A, Raimer SA (2009) An evaluation of dapsone gel 5% in the treatment of acne vulgaris Expert Opin Pharmacother 10, 1515-1521. 37.

Barr J (2011) A short history of Dapsone, or an alternative model of drug development J Hist Med Allied Sci 66, 425-467

[Bergamaschi MM](#), [Alcantara GK](#), [Valério DA](#), [Queiroz RH](#) (2011) **Curcumin could prevent methemoglobinemia induced by dapsone in rats.** [Food Chem Toxicol.](#) 49(7), 1638-41. doi: 10.1016/j.fct.2011.03.025. Epub 2011 Mar 21. <https://www.ncbi.nlm.nih.gov/pubmed/21426920>
„It is concluded that curcumin at low doses mitigates methemoglobinemia induced by dapsone in rats, both in single- and multiple-dose regimens“.

Handler MZ, Chacon, AH, Shima MI, Schachner L (2012) Letter to the editor: Application of dapsone 5% gel in a patient with dermatitis herpetiformis. J Dermatol Case Rep 6, 132-133.

Zhang FR, H. Liu H et al. (2013) HLA-B*13:01 and the Dapsone Hypersensitivity Syndrome. New England Journal of Medicine. 369, 1620–1628, [doi:10.1056/NEJMoa1213096](https://doi.org/10.1056/NEJMoa1213096).

[Albuquerque RV](#), [Malcher NS](#), [Amado LL](#) et al. (2015) **In Vitro Protective Effect and Antioxidant Mechanism of Resveratrol Induced by Dapsone Hydroxylamine in Human**

Cells. [PLoS One](#). 10(8), e0134768. doi: 10.1371/journal.pone.0134768. eCollection 2015.

<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0134768>

“These data suggest that the pretreatment with resveratrol may decrease heme-iron oxidation and DNA damage through reduction of ROS generated in cells during Dapsone (DDS) therapy.”

Horowitz RI, Freeman PR (2016) **The Use of Dapsone as a Novel “Persister” Drug in the Treatment of Chronic Lyme Disease/Post Treatment Lyme Disease Syndrome** . J Clin Exp Dermatol Res 7, 345. doi:10.4172/2155-9554.1000345

<http://www.omicsonline.org/open-access/the-use-of-dapsone-as-a-novel-persister-drug-in-the-treatment-of-chroniclyme-diseasepost-treatment-lyme-disease-syndrome-2155-9554-1000345.pdf>

„Dapsone is a novel and effective “persister” drug for those with PTLDS and associated tick-borne co-infections who have failed classical antibiotic protocols. »

Horowitz RI, Freeman PR (2016) **Are Mycobacterium Drugs Effective for Treatment Resistant Lyme Disease, TickBorne Co-Infections, and Autoimmune Disease?** JSM Arthritis 1(2): 1008.

<https://www.jscomedcentral.com/Arthritis/arthritis-1-1008.pdf>

Guragain S, Upadhayay N, Bhattarai BM (2017) **Adverse reactions in leprosy patients who underwent dapsone multidrug therapy: a retrospective study.** [Clin Pharmacol](#). 9, 73-78. doi: 10.2147/CPAA.S135846. eCollection 2017.

« The common dapsone ADRs present in leprosy patients were jaundice, exfoliative dermatitis and hemolytic anemia in MDT-treated patients. Patients could be cured by managing the dapsone ADRs effectively on time. Some patients may die of dapsone ADRs if clinicians fail to manage the side effects on time. »

➔ **DocCheck Flexikon Dapson** <http://flexikon.doccheck.com/de/Dapson>

➔ **Therapie von Methämoglobinaemie nach Einnahme von Dapson, therapy of dapsone-induced methemoglobinemia:**

Methylenblau, methyleneblau <http://www.xerlebnishaft.de/phenothiazine.pdf> oder,
or **Vitamin C (10 g intravenously administered 6 hourly)**

<http://www.xerlebnishaft.de/vitamine.pdf>

[Bernt - Dieter Huismans](#), Letzte Revision Juli 2017, www.Huismans.click



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