

Methotrexate

Mechanism of Action

- Class: Antimetabolite
- Inhibits nucleic acid synthesis and by so doing, it inhibits cell proliferation
- Folate analogue and inhibits dihydrate folate reductase

Dosing and route of administration

- 7.5 to 25 mg once per week
- must also give folic acid
- Has been used via intravitreal injection
 - Hardwig PW, Pulido JS, Erie JC, Baratz KH, Buettner H. Intraocular methotrexate in ocular diseases other than primary central nervous system lymphoma. *Am J Ophthalmol.* 2006 Nov; 142(5):883-5. [PubMed abstract](#)
 - Taylor SR, Habet-Wilner Z, Pacheco P, Lightman SL. Intraocular methotrexate in the treatment of uveitis and uveitic cystoid macular edema. *Ophthalmology.* 2009 Apr; 116(4):797-801. [PubMed abstract](#)

Side Effects

- Hepatotoxicity- Liver function should be monitored
- Cytopenia
- Interstitial Pneumonitis
- Teratogen

[jia](#), [drugs](#), [uveitis](#)

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