

Proportion and factors that associate with incidence of hepatotoxicity in rheumatoid arthritis patients treated with methotrexate in RSCM year 2013-2015

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Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20496999&lokasi=lokal>

Abstrak

ABSTRAK

Background Rheumatoid arthritis is a chronic autoimmune disease that mainly attacks joints. It may cause joint deformities which leads to lower quality of life of RA patients. RA is treated with methotrexate which inhibits disease progression. MTX is known for its hepatotoxicity side effect, which is described by an elevation of aspartate aminotransferase and/or alanine aminotransferase beyond the upper normal limit. Factors that may enhance hepatotoxicity are gender, age, cumulative dose of MTX, and duration of therapy of MTX. Prevalence of hepatotoxicity caused by MTX therapy in RA patients in Indonesia is still unknown. The objective of this research is to know the proportion of hepatotoxicity and its associations with the factors that may enhance hepatotoxicity caused by MTX therapy in RA patients in RSCM. Method Data about gender, age, cumulative dose and duration of therapy of MTX are obtained from 115 RA patients' medical records. Result Proportion of hepatotoxicity in RA patients treated with MTX in RSCM is 42.60 percent. Gender, age, cumulative dose and duration of therapy of MTX do not significantly enhance hepatotoxicity $p > 0.05$. Conclusion In conclusion gender, age, cumulative dose and duration of therapy of MTX do not have an association with hepatotoxicity in RA patients treated with MTX.