

9 September 2025

Clinical Practice on the Timing of Methotrexate (MTX) Level Monitoring

I am writing to submit a request for information under the Freedom of Information Act 2000.

Adult Patients

- 1. For adult patients with acute lymphoblastic leukaemia (ALL) receiving HDMTX, at what time point does your centre take the first MTX level?**

36 hours post commencement of HD MTX

- 2. For adult patients with osteosarcoma receiving HDMTX, at what time point does your centre take the first MTX level?**

The Northern Ireland Cancer Network, Bone and Soft Tissue Sarcoma, Systemic Anti-Cancer Therapy, Protocol, March 2025, regarding for the treatment of osteosarcoma with high dose methotrexate states 'The first methotrexate level should be taken 24 hours after the start of infusion'

- 3. For adult patients with non-Hodgkin's lymphoma receiving HDMTX, at what time point does your centre take the first MTX level?**

24 hours post commencement of HD MTX

Paediatric Patients

- 1. For paediatric patients with acute lymphoblastic leukaemia (ALL) receiving HDMTX, at what time point does your centre take the first MTX level?**

HD-Mtx not used as standard of care just now. When used previously (UKALL2011 Clinical Trial), first level was taken at 24 hours after commencement of Mtx infusion.

- 2. For paediatric patients with osteosarcoma receiving HDMTX, at what time point does your centre take the first MTX level?**

First Mtx level is taken 48 hours after commencing the Mtx infusion - from standard National / International Guidelines

- 3. For paediatric patients with non-Hodgkin's lymphoma receiving HDMTX, at what time point does your centre take the first MTX level?**

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First Mtx level is taken 48 hours after commencing the Mtx infusion - from
standard National / International Guidelines