Name:
Hospital ID No:
Clinical comments: Thalassemia iron overload assessment

EXAMINATION: MRI T2* study
DATE OF EXAMINATION:
SEQUENCES:
Haste - axial, coronal and sagittal.
Multi-echo Gradient Echo T2* - heart and liver.

FINDINGS:

1. Myocardium T2*:

Sequences	T2* value (ms)	Myocardial iron concentration (MIC) mg/g
Dark blood		
Bright blood		
Degree of myocardial iron overload		*(normal/mild/moderate/severe)*

2. Liver T2*:

Liver T2* value (ms)	
Liver iron concentration (LIC) mg/g	
Degree of liver iron load	*(normal/mild/moderate/severe)*

3. Other findings:
(extramedullary haematopoiesis – absent/present, spleen – splenomegaly/post splenectomy)

CONCLUSION:

REFERENCE:

Table 1: The severity of myocardial iron load based on the cardiac T2* values and timing for repeat MRI are presented in the following table.[MoH, 2024]

Degree of myocardial iron load	**T2* value(ms)**	**Timing to repeat MRI**
Normal	**>20 ms**	2 yearly
Mild	**16-20 ms**	Annually
Moderate	**10-15 ms**	Annually
Severe	**<10 ms**	6 monthly

Table 2: The severity of liver iron load based on T2* and LIC . [MoH, 2024]

Degree of liver iron load	**T2* value(ms)**	**Liver iron concentration - LIC (mg/g)**
Normal	>11.4 ms	**<2**
Mild	3.8-11.4 ms	**2-7**
Moderate	1.8-3.8 ms	**7-15**
Severe	<1.8 ms	**>15**