

**Patient:** Fatima Madki

**Sex:** Female

**Visit ID:** 670321

**Patient ID:** MU-A05-AAG4171

**Age:** 7 Year(s)

**Date:** 07-04-2025

**Referral Dr.:** Vyas Chintan

## MRI Cardiac – Thalassemia – Iron Loading Assessment

### Indication:

Thalassemia Major. To assess iron loading.

### Iron Loading:

| Organ      | T2* (ms) | T1      | Loading  |
|------------|----------|---------|----------|
| Heart      | 22.69    | 1210 ms | None     |
| Liver      | 1.84     | -       | Moderate |
| Pancreatic | 9.07     | -       | Moderate |
| Pituitary  | 23.72    | -       | Absent   |

### Guidelines for Iron Assessment:

| Myocardial Loading | Myocardial T2 (ms) |  | Hepatic Loading | Hepatic T2* (ms) | Dry Weight of Fe (mg/g dw) |
|--------------------|--------------------|--|-----------------|------------------|----------------------------|
| None               | More than 20       |  | None            | More than 6.3    | Less than 2                |
| Mild               | 12- 20             |  | Mild            | 6.3 - 2.7        | 2 - 5                      |
| Moderate           | 8 - 12             |  | Moderate        | 2.7 - 1.4        | 5 - 10                     |
| Severe             | Less than 8        |  | Severe          | Less than 1.4    | More than 10               |

### Conclusion:

1. Absent myocardial, moderate liver and moderate pancreatic iron loading is seen. Pituitary iron loading is not seen.
2. Normal biventricular function. The LV ejection fraction is 61%.
3. The 1.5T equivalent T2\* values have been derived from 3T R2\* values.

Reported By: Dr. Nidhi Doshi, Dr. Bhavin Jankharia

(1/2)

#### Dr Jankharia's Imaging Centre

Main Clinic : X-ray, DXA, USG, Doppler, Digital 3D Mammo, Pathology, CBCT

Bhaveshwar Vihar | 383 | Sardar V. P. Road | Mumbai 400 004 | T : 022 6617 3333 | E : info@picture-this.in | W : www.picture-this.in

Cardiac, Chest & Interventional Twin Beam CT

Nishat Business Centre | Arya Bhavan | 461 | Sardar V. P. Road | Mumbai 400 004 | T : 022 6848 6666

PET/CT, Organ Optimized 3T MRI

Gr. Floor | Trade Garden | Kamala Mills Compound | Senapati Bapat Marg | Lower Parel | Mumbai 400 013 | T : 022 6617 4444



**Picture  
This**  
Imaging & Beyond  
by Jankharia

**Patient:** Fatima Madki

**Sex:** Female

**Visit ID:** 670321

**Patient ID:** MU-A05-AAG4171

**Age:** 7 Year(s)

**Date:** 07-04-2025

**Referral Dr.:** Vyas Chintan

Dr. Bhavin Jankharia

Dr. Nidhi Doshi

(2/2)

**Dr Jankharia's Imaging Centre**

Main Clinic : X-ray, DXA, USG, Doppler, Digital 3D Mammo, Pathology, CBCT

Bhaveswar Vihar | 383 | Sardar V. P. Road | Mumbai 400 004 | T : 022 6617 3333 | E : info@picture-this.in | W : www.picture-this.in

Cardiac, Chest & Interventional Twin Beam CT

Nishat Business Centre | Arya Bhavan | 461 | Sardar V. P. Road | Mumbai 400 004 | T : 022 6848 6666

PET/CT, Organ Optimized 3T MRI

Gr. Floor | Trade Garden | Kamala Mills Compound | Senapati Bapat Marg | Lower Parel | Mumbai 400 013 | T : 022 6617 4444