



Thalassaemics Diary

A clinical record book for thalassaemia patients

Patient Name: _____



THALASSAEMIA
FEDERATION
OF PAKISTAN

Family Data

Physical Examination & Growth Monitoring
Transfusion History & Transfusion Treatment
Iron Chelation Schedule
Clinical & Laboratory Evaluation (Monthly)
Clinical & Laboratory Evaluation (Yearly)
Doctor's Note
Chelation Calendar
Annual Summary Chart
Clinical & Laboratory Evaluation Checks

1. Name.....
2. Date of Birth.....Age.....
3. First Transfusion.....
4. Father's name.....
5. CNIC.....
6. Mother's name.....
7. CNIC.....
8. Contact No.....Address.....
.....
9. Number of children.....
10. Thalassaemia Reg. No.....Blood Group.....
11. Number of traits.....
12. Number of thalassaemics.....
13. Area of residence - Rural Urban Peri-urban
Socio Economic Status - Poor Avg. Good
14. Number of years residence in the area.....
15. Number of siblings dead.....
16. Father's occupation.....
17. Yearly family income.....

Pedigree

Immunization History

1. EPI - Complete/Partial/None
2. Hepatitis B vaccination on.....
3. Pneumonia vaccination on.....
4. Influenza vaccination on.....
5. Typhoid vaccination on.....
6.
7.

Puberty History-

Menstrual History- (For female)

Physical Examination & Growth Monitoring

Physical Examination
&
Growth Monitoring

Transfusion History
&
Transfusion Treatment

Iron Chelation
Schedule

Clinical & Laboratory
Evaluation (Monthly)

Clinical & Laboratory
Evaluation (Yearly)

Doctor's Note

Chelation Calendar

Annual
Summary Chart

Clinical & Laboratory
Evaluation Checklist

Transfusion History & Transfusion Treatment

Transfusion History
&
Transfusion Treatment

Iron Chelation
Schedule

Clinical & Laboratory
Evaluation (Monthly)

Clinical & Laboratory
Evaluation (Yearly)

Doctor's Note

Chelation Calendar

Annual
Summary Chart

Clinical & Laboratory
Evaluation Checklist

Iron Chelation Schedule

Iron Chelation
Schedule

Clinical & Laboratory
Evaluation (Monthly)

Clinical & Laboratory
Evaluation (Yearly)

Doctor's Note

Chelation Calendar

Annual
Summary Chart

Clinical & Laboratory
Evaluation Checklist

Clinical & Laboratory Evaluation (Monthly)

Clinical & Laboratory
Evaluation (Monthly)

Clinical & Laboratory
Evaluation (Yearly)

Doctor's Note

Chemical Calendar

Annual
Summary Chart

Clinical & Laboratory
Evaluation Checklist

Clinical & Laboratory Evaluation (Yearly)

Clinical & Laboratory
Evaluation (Yearly)

Doctor's Note

Creation Calendar

Annual
Summary Chart

Clinical & Laboratory
Evaluation Checklist

Clinical and Laboratory Evaluation (Yearly)

Virology

Date	HAV IgM	Hep B panel					Hep C panel			Anti HBE	Anti HIV (1+2)
		HBsAg	Anti HBs	Anti HBc IgM	Anti HBe	HBV DNA	Anti HCV	HCV RNA			

Bone Examination
ABD USG

Liver Biopsy	Ophthalmology Examination	Audiology Examination
<input type="checkbox"/> Liver Iron concentration- <input type="checkbox"/> Histology		

Clinical and Laboratory Evaluation (Yearly)

Endocrine Function Evaluation (Yearly)

Date	Test		
	T3		
	T4		
	TSH		
	Parathyroid		
	LH		
	FSH		
	Testosterone		
	Estrogen		
	Progesterone		
	Estradiol		
	OGTT (F / PP)		
	Bone Age		
	Bone Density		

Result of any special test indicated -

Vaccination-

Vaccine	Date	Date	Date	Date
Hepatitis B				
Pneumococcal				
Meningococcal				
Splenectomy Done				

Doctor's Note

Doctor's Note

Cheraton Calendar

Annual
Summary/Chart

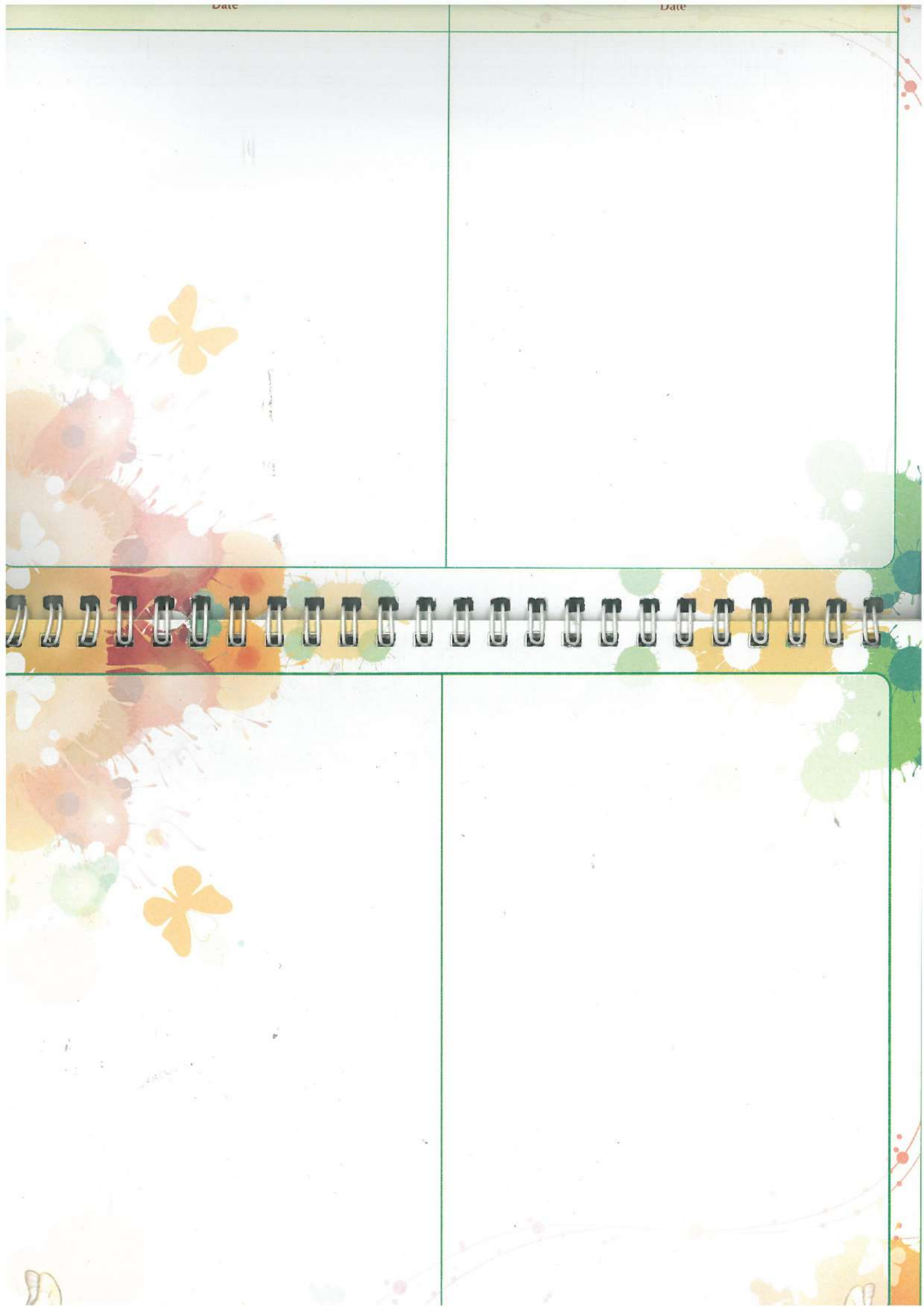
Clinical & Laboratory
Evaluation Checklists

Doctor's Note

Date

Date





Chelation Calendar

Chelation Calendar

Annual
Summary Chart

Clinical & Laboratory
Evaluation Checklist

Annual Summary Chart

Annual
Summary Chart

Clinical & Laboratory
Evaluation Checklist

Annual Summary Chart

Year	Age Yrs	Total Blood Units	Mean Req ml/kg/day	Splenectomy	Mean Hb gm/dl			Hb Fall %	Iron balance				Mean compliance	Ferritin			Mean ALT	Clinical Note & Sign
					Pre	Post	Mean		In		Out			Min	Max	Mean		
									Total mg	mg/kg/day	Total mg	mg/kg/day						

Equations

Transfusion Treatment Chart

$$\text{Hb Post} = \text{Hb pre} + \frac{\text{Transfused amount of pure RBC}}{\text{Average index of last six month}}$$

$$\text{Index} = \frac{\text{Transfused amount of pure RBC}}{(\text{Hb post} - \text{Hb pre})}$$

$$\text{Observed Hb fall} = \frac{(\text{Previous Hb post} - \text{Hb pre})}{\text{Transfusion Interval}}$$

$$\% \text{ Hb fall} = \frac{\text{Observed Hb fall} \times 100}{\text{Previous Hb post}}$$

$$\text{Next Appointment} = \frac{(\text{Hb post} - \text{Hb pre desired})}{\text{Expected Hb fall}} + \text{Previous date of transfusion}$$

$$\text{Hb fall expected} = \text{Post Hb} - \text{Hb pre desired}$$

Average 2.1 ml/kg is required to increase hemoglobin by 1gm/dl

Annual Summary Chart

$$\text{Desferal Compliance} = \frac{\text{Infusion Done}}{\text{Expected Infusion}} \times 100$$

$$\text{Desferal Compliance} = \frac{\text{Capsule Taken}}{\text{Expected Intake}} \times 100$$

Annual Summary Chart

$$\text{Mean Hb} = \frac{\sum \text{Hb pre} + \sum \text{Hb post}}{(\text{number of Hb pre} + \text{number of Hb post})}$$

$$\text{Iron} = \text{Transfused amount of pure RBC} \times 1.16$$

$$\text{Iron out by Desferal} = \frac{\sum (\text{Infusion number} \times \text{sideruria}) + \text{Iron excreted with intensive chelation}}{\text{Iron excreted with intensive chelation}}$$

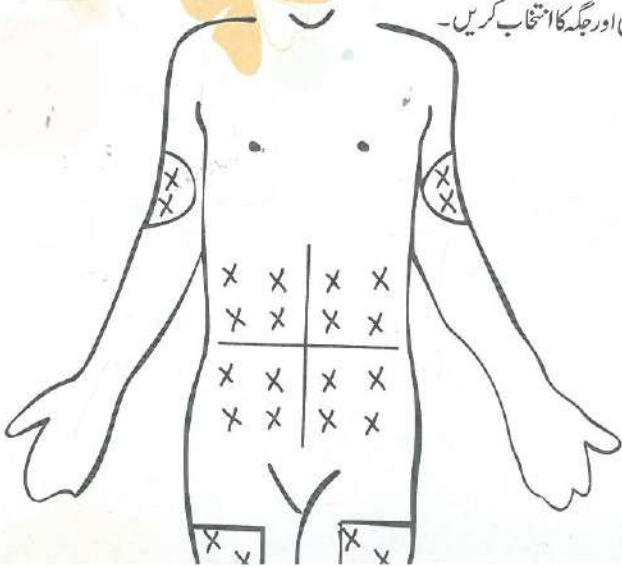
$$\text{Excreted Iron by L1} = \frac{\sum (\text{administration number} \times \text{sideruria})}{\text{Prescribed daily mean administration}}$$

ڈیسفرال انجیکشن کس طرح لیا جائے؟

اسٹرا کس طرح لی جائے؟

مندرجہ ذیل تصویر ڈیسفرال انجیکشن لگانے کے لیے مناسب جگہوں کی نشاندہی کر رہی ہے۔ انجیکشن لگاتے وقت اس بات کا خیال رکھیں کہ ہر بار انجیکشن لگانے کی جگہ تبدیل کریں تاکہ کسی بھی ممکنہ ری ایکشن یا انفیکشن سے بچا جاسکے۔

نیچے دی گئی تصویر کی جتنی چاہیں نوٹوکاپی کریں۔ جس جگہ آپ انجیکشن لگا چکے ہیں اس پر نشان لگائیں اور اگلی مرتبہ کسی اور جگہ کا انتخاب کریں۔



گولیاں ڈاکٹر کی ہدایت کے مطابق استعمال کریں۔ گولیاں ۱۰۰ اور ۲۰۰ ملی گرام میں دستیاب ہیں۔ دوا کی مقدار کا تعین آپ کا ڈاکٹر خود کرے گا جو یا تو ۱۰۰ ملی گرام یا ۲۰۰ ملی گرام کی گولی یا دونوں پر مشتمل ہو سکتی ہے۔ یہ انتہائی ضروری ہے کہ آپ دروازہ ڈاکٹر کے نسخے کے مطابق استعمال کریں۔

گولی / گولیاں ۱۰۰ یا ۲۰۰ ملی لیٹر پانی میں ڈالیں۔



گولی / گولیاں مکمل طور پر حل ہونے تک ہلائیں۔ گلاس میں موجود محلول دودھ یا مائل نظر آئے گا دودھ یا مائل کا مطلب یہ ہے کہ دوا اس میں مکمل طور پر حل ہو چکی ہے۔



گلاس میں موجود تمام دوا پی لیں، پھر گلاس میں تھوڑا سا پانی ڈال کر ہلائیں اور یہ بھی پی لیں۔ یہ ضروری ہے کہ آپ سب کچھ پی لیں کیونکہ اسی طرح آپ دوا کی درست مقدار لے سکتے ہیں۔



گہ لہا، کھ مشر، مات، مادودھ میں حل مت کریں

Clinical & Laboratory Evaluation Checklist

Clinical and Laboratory Evaluation Checklist

Monthly	Every 6 months	Yearly
<input type="checkbox"/> CBC	Cardiac Evaluation <input type="checkbox"/> Cardiac Echo <input type="checkbox"/> EKG <input type="checkbox"/> Heart chamber dimensions <input type="checkbox"/> Systolic function <input type="checkbox"/> Diastolic function <input type="checkbox"/> Fractional shortening	Endocrine Function Evaluation <input type="checkbox"/> Free T4 & TSH <input type="checkbox"/> Parathyroid <input type="checkbox"/> FSH <input type="checkbox"/> LH <input type="checkbox"/> Testosterone <input type="checkbox"/> Estradiol <input type="checkbox"/> OGTT <input type="checkbox"/> Bone age and bone density <input type="checkbox"/> Zinc, Vit-C, Vit-E Complete physical examination Ophthalmology examination Audiology examination
Every 6 month Serum Iron Evaluation <input type="checkbox"/> Ferritin <input type="checkbox"/> Iron <input type="checkbox"/> TIBC	Yearly Virology <input type="checkbox"/> Hepatitis C panel (anti-HCV, anti-HCV RIBA) <input type="checkbox"/> Hepatitis B panel (HBsAg, anti-HBs, anti-HBc IgG) <input type="checkbox"/> anti-HIV 1 + 2	As Indicated As Indicated <input type="checkbox"/> 24 - hour Holter monitor <input type="checkbox"/> anti - HBc igM <input type="checkbox"/> anti - HBe <input type="checkbox"/> HBeAg <input type="checkbox"/> anti-HDV <input type="checkbox"/> HCV-RNA
As Required Liver Function Evaluation <input type="checkbox"/> ALT/SGPT <input type="checkbox"/> AST/SGOT <input type="checkbox"/> Alkaline Phosphatase <input type="checkbox"/> Glucose Renal Function Evaluation <input type="checkbox"/> Urea <input type="checkbox"/> Creatinine		

Clinical & Laboratory Evaluation Checklist

Clinical and Laboratory Evaluation Checklist

Frequency	Yearly
<p>Monthly</p> <ul style="list-style-type: none"> <input type="checkbox"/> CBC 	<p>Endocrine Function Evaluation</p> <ul style="list-style-type: none"> <input type="checkbox"/> Free T4 & TSH <input type="checkbox"/> Parathyroid <input type="checkbox"/> FSH <input type="checkbox"/> LH <input type="checkbox"/> Testosterone <input type="checkbox"/> Estradiol <input type="checkbox"/> OGTT <input type="checkbox"/> Bone age and bone density <input type="checkbox"/> Zinc, Vit-C, Vit-E <p>Complete physical examination Ophthalmology examination Audiology examination</p>
<p>Every 6 month</p> <p>Serum Iron Evaluation</p> <ul style="list-style-type: none"> <input type="checkbox"/> Ferritin <input type="checkbox"/> Iron <input type="checkbox"/> TIBC 	
<p>Every 6 months</p> <p>Cardiac Evaluation</p> <ul style="list-style-type: none"> <input type="checkbox"/> Cardiac Echo <input type="checkbox"/> EKG <input type="checkbox"/> Heart chamber dimensions <input type="checkbox"/> Systolic function <input type="checkbox"/> Diastolic function <input type="checkbox"/> Fractional shortening 	<p>As Indicated</p> <p>As Indicated</p> <ul style="list-style-type: none"> <input type="checkbox"/> 24 - hour Holter monitor <input type="checkbox"/> anti - HBc igM <input type="checkbox"/> anti - HBe <input type="checkbox"/> HBeAg <input type="checkbox"/> anti-HDV <input type="checkbox"/> HCV-RNA
<p>As Required</p> <p>Liver Function Evaluation</p> <ul style="list-style-type: none"> <input type="checkbox"/> ALT/SGPT <input type="checkbox"/> AST/SGOT <input type="checkbox"/> Alkaline Phosphatase <input type="checkbox"/> Glucose <p>Renal Function Evaluation</p> <ul style="list-style-type: none"> <input type="checkbox"/> Urea <input type="checkbox"/> Creatinine 	
<p>Yearly</p> <p>Virology</p> <ul style="list-style-type: none"> <input type="checkbox"/> Hepatitis C panel (anti-HCV, anti-HCV RIBA) <input type="checkbox"/> Hepatitis B panel (HBsAg, anti-HBs, anti-HBc IgG) <input type="checkbox"/> anti-HIV 1 + 2 	