

Dr. Khaleel Matter
lect 3

Approach to Jaundice:

Jaundice: Yellow discoloration of the sclera, skin, and mucous membranes. (It's sign).
Result from Hyperbilirubinaemia

1st step in any patient with Jaundice is **History**

Site onset → Jaundice
SCLERA

Jaundice + Normal sclera = Hypercarotenemia
لما كل جزير كثير الريفق

* Jaundice with association symptoms /

- dysphasia + jaundice → malignancy
- esophythis → Infection or drugs
Jaundice jaar is it is flia

- Vomiting + jaundice → acute hepatitis
→ obstruction ABC

- Fever + jaundice → acute cholangitis

* Charcot's triad

- upper abdominal pain
- Fever
- Jaundice

(manifestation of biliary obstruction)

Reminder:

Constitutional symptoms /

- Fever
- weight loss
- appetite

* weight loss is malignancy
قوت اليفق

* In Acute Hepatitis B
→ anorexia, smelly
appetite
يفق

Reynold's Pentad

(2)

Charcot's triad + Shock + altered mental state

upper
abdominal
pain

fever jaundice

low
blood
flow

tachycardia

State

diagnostic for obstructive ascending cholangitis

Painless jaundice = malignancy
Pain → Capsule stretch injury

Pain radiate for RT shoulder → biliary

Constipation + jaundice + weight loss → Colon cancer with metastasis on liver

Hypothyroidism & hyperthyroidism → Can do jaundice
Autoimmune associated with autoimmune hepatitis

Diarrhea + jaundice → Infection
Amoebic abscess & TIS
Celiac disease
Autoimmune hepatitis
celiac hepatopathy
HAV
HBV
EBV
IBD
Ulcerative colitis
85% associated with primary biliary cholangitis (PBC)
Sclerosing

Cancer Pancreas → Steatorrhea
→ Jaundice
→ Painless

Fatigue & Jaundice & Diarrhea → Herbal
الإعياء و اليرقان و الإسهال

- Drugs in ♀ → OCB | pathophysiology /
Budd-Chiari Syndrome
- ♀ → amenorrhea
→ Consequence to autoimmune hepatitis
thrombosis of hepatic veins
Abdominal Pain
Ascites
Clotting

COVID 19 → liver damage (Hepatitis).

Diarrhea + Jaundice → Also HIV can be.

* Drug Induced liver injury

آثار دواء على liver metabolism
→ OCB, Antibiotics, الالتهاب الكبدي دوائي

Non alcoholic fatty liver disease ↔ NAFLD
مرض الكبد الدهني غير الكحولي

* Hemochromatosis ⇒ Bronze diabetes (pigmentation of skin)

Chronic liver disease
Bleeding
سكري حديد
مرض الكبد المزمن

mental change + jaundice $\Rightarrow$ Wilson disease
(micrography)

80% آخن General look و اسفوف اذا فحس

Stigmata of Chronic liver disease

$\hookrightarrow$ emoraxia, lethargy, weight loss, hepatomegaly
nausea, disturbed sleep pattern, etc

Alopecia areata $\Rightarrow$ associated with autoimmune hepatitis
PSC

Paraneoplastic Enlargement $\left\{ \begin{array}{l} \rightarrow \text{Infiltrative disorders} \\ \rightarrow \text{Sarcomas} \\ \rightarrow \text{Gastric cancer (carcinoma)} \end{array} \right.$

abdominal PBC $\rightarrow$ Jaundice

aphous ulcer $\rightarrow$ $\left\{ \begin{array}{l} - \text{Colorec} \\ - \text{Cromb} \end{array} \right. \rightarrow$ jaundice

malignancy & infection $\rightarrow$ lymph node $\rightarrow$ Enlargement

ال Chest و malignancy

$\left\{ \begin{array}{l} \rightarrow \text{Spider veins} \\ \rightarrow \text{gynecomastia (Enlargement of } \sigma \text{ breast)} \\ \rightarrow \text{body hair distribution} \end{array} \right.$

? abdominal ~~distention~~ $\rightarrow$ distention

5Fs $\rightarrow$ $\left\{ \begin{array}{l} \rightarrow \text{Fat} \\ \rightarrow \text{Feces} \\ \rightarrow \text{Flatus} \\ \rightarrow \text{Fetus} \\ \rightarrow \text{fluid} \end{array} \right.$

any dilated veins need to do milking test
obstruction $\rightarrow$ $\rightarrow$ $\rightarrow$

above umbilicus $\Rightarrow$ IVC obstruction
toward umbilicus $\Rightarrow$ portal hypertension

(liver Enlargement) $\rightarrow$

infection $\rightarrow$ Tender $\rightarrow$ $\rightarrow$ $\rightarrow$
malignancy $\rightarrow$ Not Tender $\rightarrow$ $\rightarrow$ $\rightarrow$

Normal liver span 10 ± 2 $\rightarrow$ $\rightarrow$

Portal hypertension Cause Splenomegaly

Straight marks $\rightarrow$ Skin Rash $\rightarrow$ $\rightarrow$ $\rightarrow$
Palm of hands $\rightarrow$ $\rightarrow$ $\rightarrow$ $\rightarrow$

Rash /

- $\rightarrow$ petechiae (Vit. K deficiency)
- $\rightarrow$ ~~Ecchymosis~~ Ecchymosis
- $\rightarrow$ PG $\Rightarrow$ Pemphigoid gestationis (any place $\rightarrow$ Trauma)
- $\rightarrow$ EN $\Rightarrow$ Erythema nodosum (IBD, PBC)
- $\rightarrow$ DH $\Rightarrow$ Dermatitis ~~herpetiformis~~ herpetiformis (celiac disease)

* DRESS $\Rightarrow$ Drug reaction with eosinophilia & systemic symptoms. (Liver function & Jaundice)

Severe adverse drug reaction characterized by an extensive skin rash.

associated with $\rightarrow$ visceral organ
 $\rightarrow$ lymphadenopathy
 $\rightarrow$ eosinophilia
 $\rightarrow$ Atypical lymphocytosis

الاختصاص ال Marks للزيم اتاكل من

- Leukonychia
- Koonychia
- Oonycholychia $\rightarrow$ separation of nail

Vasculitis can cause jaundice if it associated with autoimmune disease

Needles break in hand $\rightarrow$ acute Hepatitis C or B

cocaine smoking $\rightarrow$ hepatitis B حتى شرب الكحول

الخوف من الإبر
حتى لو كان من الممرضين

* التاتو يكون Hepatitis حتى شرب الكحول

* acanthosis nigricans $\rightarrow$ DM $\rightarrow$ Fatty liver
Can lead to Jaundice

* pregnancy + Jaundice $\rightarrow$ Clamptora
+ HELLP syndrome (No placenta)
+ acute fatty liver of pregnancy - hemolysis
+ Budd-Chiari syndrome - liver failure

Painless jaundice $\rightarrow$ malignancy حتى شرب الكحول
Pancratic malignancy
والأصل الكبد

7
 Lab ما اكتشف للرقع عنه
 Fractionation of Bilirubin
 Indirect or direct
 Blood film احد توقع ال hemolysis ورجل
 HDL, LDH

* Hepatocellular disease *

ALT > AST > ALP

Cholestatic jaundice < ALT < ALP
 لكن الـ ALT < ALP

Cholestatic jaundice
 GGT & ALP
 لكن الـ GGT & ALP
 hepatocellular

* الـ مرصيا حن + jaundice + albumin
 Pain

* الـ مرصيا hemochromatosis
 Periton

Liver cirrhosis cause liver atrophy

? Enlargement of liver cirrhosis

- Inflammation
- Fat infiltration
- malignancy → HCC
- Congest as result of heart failure

Budd-Chiari syndrome
 الـ acute jaundice (الـ حن) (الـ حن) (الـ حن)

CT or MRCP obstructive

* Management → treat the underlying cause
 (Correct diagnosis, correct management)

150ml/kg
 Toxic الـ حن