

### Liver diseases in Lebanon

14/12/2025 15:48:34

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Primary registry identifying number

LBCTR2020074524

MOH registration number

Study registered at the country of origin

Yes

Type of registration

Retrospective

Date of registration in national regulatory agency

15/07/2020

**Primary sponsor** 

PI initiated

Date of registration in primary registry

17/07/2020

**Public title** 

Liver diseases in Lebanon

Scientific title

Spectrum of Liver diseases in Lebanon: a retrospective cohort

study

Brief summary of the study: English

**Protocol number** 

BIO-2018-0009

Study registered at the country of origin: Specify

Type of registration: Justify

LBCTR was not established at time of study

Primary sponsor: Country of origin

Lebanon

Date of registration in national regulatory agency

15/07/2020

Acronym

Acronym



Liver diseases is a worldwide etiology causing high morbidity and mortality. Fibroscan is a quick, painless examination performed in clinic or at the patient's bedside. It is used to evaluate liver status for patients with suspected liver disease prognosis. This study aims at describing the spectrum of liver diseases among patients performing Fibroscan at a tertiary care center in Lebanon. Methods:

This is a retrospective data collection study on patients who underwent Fibroscan at the American University of Beirut hepatobiliary unit between 2015 and 2018. Medical charts of all patients were reviewed. Data were collected and analyzed using SPSS 25 software.

### Results:

A total of 620 patients presented to the hepatobiliary unit for Fibroscan, of which 419(67.5%) were males. The mean age was 47.8±13.4 (range 18-84). 362(58.3%) had NAFLD, 89(14.3%) had Hepatitis-B, 69(11.1%) had Hepatitis-C, 48(7.7%) had ALD, 20 (3.3%) had DILI, and 13(2.9%) had autoimmune hepatitis. 190 (30.6%) were overweight (BMI over 25), 128(20.6%) had diabetes. Liver stiffness corresponding to the diagnosis of F4 liver fibrosis stage on Fibroscan was mostly reported in 6(46.5%) autoimmune hepatitis, 101(27.9%) NAFLD, and 18(26.1%) HCV patients. 141 (45.5%) patients who had one or more metabolic risk factors suffered from severe stage steatosis compared with 78(28.9%) who had not any risk factors with P-value 0.04. Conclusions: Based on our sample, NAFLD is emerging as a

Conclusions: Based on our sample, NAFLD is emerging as a predominant etiology of CLD, followed by, HBV, and HCV. This is the first study that reports CLD status in Lebanon, further studies that describe the prevalence and incidence of the disease at a larger scale are needed.

### Brief summary of the study: Arabic

هو فحص سريع وغير مؤلم يتم إجراؤه في العيادة أو بجوار Fibroscan. أمراض الكبد هي مسببات عالمية تسبب المراضة والوفيات العالية سرير المريض. يتم استخدامه لتقييم حالة الكبد للمرضى الذين يشتبه في تشخيصهم لأمراض الكبد. تهدف هذه الدراسة إلى وصف طيف أمراض الكبد بين المرضى الذين يؤدون الفبروسكان في مركز رعاية جامعية في لبنان. ملم ة.

و 2015هذه دراسة جمع البيانات بأثر رجعي عن المرضى الذين خضعوا ليبروسكان في وحدة الكبد في الجامعة الأمريكية في بيروت بين عامي 2018. SPSS 25. تمت مراجعة المخططات الطبية لجميع المرضى. تم جمع البيانات وتحليلها باستخدام برنامج .

4.11 ± 4.78 ٪) من الذكور. كان متوسط العمر 67.5 (419 مريضا إلى الوحدة الكبدية الصفراوية فيبروسكان ، منهم 620قدم ما مجموعة - C -مصاب بالتهاب الكبد (11.1% / 13.0 لكو. 14.30 ) 0.0 مصاب بالتهاب الكبد (11.1% / 13.0 لكو. 14.30 ) 0.0 مصاب بالتهاب الكبد (11.1% / 13.0 لكو. 13.0 لكو. (11.2% ) مصاب بح. 3 (20مصاب بمرض التصلب العصبي المتعدد ، (7.7% ) 48 (7.7% ) كان يعاني من التهاب الكبد (13.0 (12.0 ) 0.2% ) بعانون من زيادة الوزن (موشر كتلة الجسم فوق 30.6 (1900 الذاتي. ١٤ مصابي بعانون من زيادة الوزن (موشر كتلة الجسم فوق 30.6 (1900 الذاتي. ١٤ مصابي الكبد المناعي الذاتي ، 4.5 (13.0 لكو. الغالم المناعي الذاتي ، 4.5 (13.0 لكو. الغالم الناعي الكبد المناعي الذاتي ، 4.5 (13.0 لكو. الغالم الناعي الكبد المناعي الداتي الكبد (14.0 لكو. الكو. الكو. الكو. (14.0 لكو. الكو. الكو. الكو. (14.0 لكو. 13.0 لكو. الكو. (14.0 لكو. 14.0 لكو. الكو. (14.0 لكو. 14.0 لكو. 14.0 لكو. الكو. (14.0 لكو. 14.0 لكو. 14.0 لكو. 14.0 لكو. (14.0 لكو. 14.0 لكو. 14.0 لكو. 14.0 لكو. الكو. (14.0 لكو. 14.0 لكو. 14.0 لكو. (14.0 لكو. 14.

Health conditions/problem studied: Specify

liver diseases

Interventions: Specify

none no research intervention was done

Key inclusion and exclusion criteria: Inclusion criteria

all adults who presented for fibroscan at AUBMC hepatobiliary unit between 2016 and 2018

Key inclusion and exclusion criteria: Gender

Key inclusion and exclusion criteria: Specify gender

Both

Key inclusion and exclusion criteria: Age minimum

Key inclusion and exclusion criteria: Age maximum

99

Key inclusion and exclusion criteria: Exclusion criteria

age less than 18

Type of study



Observational

Type of intervention

Trial scope

N/A

Study design: Allocation

N/A

Study design: Control

N/A

Study design: Purpose

N/A

Study design: Assignment

IMP has market authorization

Name of IMP

Type of IMP

Pharmaceutical class

Therapeutic indication

Therapeutic benefit

Study model

Cohort

Study model: Specify model

N/A

Time perspective

Retrospective

Time perspective: Specify perspective

N/A

Target follow-up duration

Type of intervention: Specify type

Trial scope: Specify scope

Study design: Masking

N/A

Study phase

N/A

Study design: Specify purpose

Study design: Specify assignment

IMP has market authorization: Specify

Year of authorization Month of authorization

Study model: Explain model

liver disease

Time perspective: Explain time perspective

we collected all data from the date of fibroscan machine

availability at AUBMC

Target follow-up duration: Unit

NA



Number of groups/cohorts

1

Biospecimen retention

None retained

Biospecimen description

NA

Target sample size

470

Date of first enrollment: Type

Actual

Date of study closure: Type

Actual

Recruitment status

Complete

Date of completion

IPD sharing statement plan

No

Actual enrollment target size

Date of first enrollment: Date

01/01/2016

Date of study closure: Date

31/12/2019

**Recruitment status: Specify** 

IPD sharing statement description

data will be shared upon request

Additional data URL

Admin comments

Trial status

Approved

Secondary Identifying Numbers		
Full name of issuing authority	Secondary identifying number	
NA	NA	



Sources of Monetary or Material Support				
Name				
NA NA				

Secondary Sponsors			
Name			
NA			

Contac	Contact for Public/Scientific Queries						
Contact type	Contact full name	Address	Country	Telephone	Email	Affiliation	
Public	Rola jaafar	beirut	Lebanon	01350000	rj29@aub.edu.lb	AUBMC	
Scientific	walid faraj	beirut	Lebanon	01350000	wf07@aub.edu.lb	AUBMC	

Centers/Hospitals Involved in the Study			
Center/Hospital name	Name of principles investigator	Principles investigator speciality	Ethical approval
AUBMC	Walid Faraj	General Surgeon	Approved

Ethics Review				
Ethics approval obtained	Approval date	Contact name	Contact email	Contact phone
American University of Beirut Medical Center	15/05/2017	Dana Fakhredine	df17@aub.edu.lb	01350000

Countrie	Countries of Recruitment		
Name			
Lebanon			



Health Conditions or Problems Studied			
Condition	Code	Keyword	
liver disease	Liver disease, unspecified (K76.9)	fibrosis	

Interventions	terventions				
Intervention	Description	Keyword			
none	no interventions were made	fibroscan			

Primary Outcomes				
Name	Time Points	Measure		
NAFLD percentage	at time of test	number of patients		
alcoholic fatty liver	at time of test	number of patients		
Hep A, B and C infections	at time of test	number of patients		

Key Secondary Outcomes			
Name	Time Points	Measure	
risk factors associated with liver etiology	at time of test	number of patients	



Trial Results	
Summary results	
Study results globally	
Date of posting of results summaries	Date of first journal publication of results
Results URL link	
Baseline characteristics	
Participant flow	
Adverse events	
Outcome measures	
URL to protocol files	