

## Impact of pharmacist educational interventions on patients with anticoagulants

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### **Main Information**

Primary registry identifying number

LBCTR2020033424

MOH registration number

Study registered at the country of origin

Type of registration

Retrospective

Date of registration in national regulatory agency

06/03/2020

**Primary sponsor** 

Lebanese American University

Date of registration in primary registry

16/03/2020

**Public title** 

Impact of pharmacist educational interventions on patients with

anticoagulants

Scientific title

Impact of pharmacist-conducted anticoagulation patient education and telephone follow-up on transitions of care: A randomized

controlled trial

Brief summary of the study: English

This was a randomized, non-blinded interventional study conducted at a tertiary care teaching hospital in Beirut, Lebanon. Participants were inpatients ≥ 18 years, discharged on a therapeutic dose of

anticoagulant.

Patients were randomized by block randomization. The control group received the standard anticoagulant discharge counseling provided by nurses. The intervention group was counseled by a pharmacist. All patients received a phone call from the study investigators at day at day 30 post-discharge. Patients counseled by pharmacists received an additional phone call at day 2 to 3. Primary outcome measures included readmission rates within 30 days post-discharge and bleeding events. Secondary outcomes included unplanned patient contact with prescribers post-discharge.

Brief summary of the study: Arabic

إن المعيار المعتمد حاليًا في المستشفى يقضي بترفير المرضى و عائلاتهم بالمعلومات اللازمة عن الأدوية الموصوفة بعد خروجهم من المستشفى. كل مقدمي الرعاية الصحية بما في ذلك الممرضين والأطباء والصيادلة متمرسون في توفير المعلومات المطلوبة عن الأدوية. نحن الى2نرغب في تقييم أثر المعلومات الموفّرة من قبل الصيادلة قبل معادرة المرضى المستشفى حول الأدوية المسيلة للدم وخلال فترة المتابعة من بعد مغادرة المستشفى خصوصا بما يخص مخرجات السلامة كالنزيف6أيام بعد مغادرة المستشفى وفي اليوم 3

Health conditions/problem studied: Specify

The most common indication for anticoagulation was atrial fibrillation, venous thromboembolism, aortic valve replacement, and mitral valve

Protocol number

LAU.SOP.LK2.11/Jul/2017

Study registered at the country of origin: Specify

Type of registration: Justify

LBCTR did not exist/was available at the start of the study

Primary sponsor: Country of origin

Lebanon

Date of registration in national regulatory agency

06/03/2020

Acronym

N/A

Acronym

N/A





## Lebanon Clinical Trials Registry

replacement

Interventions: Specify

Patients were randomized by block randomization. The control group received the standard anticoagulant discharge counseling provided by nurses. The intervention group was counseled by a pharmacist. All patients received a phone call from the study investigators at day at day 30 post-discharge. Patients counseled by pharmacists received an additional phone call at day 2 to 3.

Key inclusion and exclusion criteria: Inclusion criteria

Participants were inpatients ≥18 years discharged on an oral anticoagulant for treatment

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

58 86

Key inclusion and exclusion criteria: Exclusion criteria

Excluded were those with severe cognitive impairment, inability to communicate or to be followed-up, discharged on an anticoagulant for

prophylaxis.

Type of study Interventional

Type of intervention Type of intervention: Specify type

Educations programs

Trial scope Trial scope: Specify scope

Safety N/

Study design: AllocationStudy design: MaskingRandomized controlled trialOpen (masking not used)

Study design: Control Study phase

Active

Study design: Purpose Study design: Specify purpose

Health services research

Study design: Assignment Study design: Specify assignment

Parallel

IMP has market authorization IMP has market authorization: Specify

Name of IMP Year of authorization Month of authorization

N/A

N/A

Type of IMP

Pharmaceutical class

Anticoagulants

Therapeutic indication

The most common indication for anticoagulation was atrial fibrillation, venous thromboembolism, aortic valve replacement, and mitral valve replacement

Therapeutic benefit

N/A - studied readmission rates



# Lebanon Clinical Trials Registry

Study model

N/A

Study model: Specify model

N/A

Time perspective

N/A

Time perspective: Specify perspective

N/A

Target follow-up duration

Number of groups/cohorts

Biospecimen retention

None retained

Target sample size

200

Date of first enrollment: Type

Actual

Date of study closure: Type

Actual

Recruitment status

Complete

Date of completion

31/07/2019

IPD sharing statement plan

No

Additional data URL

None

Admin comments

Study model: Explain model

N/A

Time perspective: Explain time perspective

N/A

Target follow-up duration: Unit

Biospecimen description

N/A

Actual enrollment target size

200

Date of first enrollment: Date

01/08/2017

Date of study closure: Date

31/07/2019

Recruitment status: Specify

IPD sharing statement description

N/A



Trial status

Approved

Secondary Identifying Numbers		
Full nar	me of issuing authority	Secondary identifying number
N/A		N/A

## **Sources of Monetary or Material Support**

Name

N/A

## **Secondary Sponsors**

Name

N/A

Contact for Public/Scientific Queries						
Contact type	Contact full name	Address	Country	Telephone	Email	Affiliation
Public	Lamis Karaoui	Lebanese American University - School of Pharmacy, Byblos	Lebanon	+961-354- 7254 ext 2318	lamis.karaoui@la u.edu.lb	Lebanese American University
Scientific	Nibal Chamoun	Lebanese American University - School of Pharmacy, Byblos	Lebanon	+961-345- 7254 ext 24017	nibal.chamoun@l au.edu.lb	Lebanese American University

Centers/Hospitals Involved in the Study			
Center/Hospital name	Name of principles investigator	Principles investigator speciality	Ethical approval
Lebanese American University - Medical Center Rizk Hospital	Lamis R. Karaoui	Pharmacist/Clinical Associate Professor	Approved

Ethics Review				
Ethics approval obtained	Approval date	Contact name	Contact email	Contact phone
Lebanese American University- University Medical Center Rizk Hospital	11/07/2017	Christine Chalhoub	christine.chalhoub@lau.edu.lb	+961 9 547254 ext. 2340



# Lebanon Clinical Trials Registry

Countries of Recruitment	
Name	
Lebanon	

Health Conditions or Problems Studied		
Condition	Code	Keyword
Anticoagulation	2-Propanol (T51.2)	Anticoagulation

Interventions			
Intervention	Description	Keyword	
Patients were randomized into 2 groups.	The control group received the standard anticoagulant discharge counseling provided by nurses. The intervention group was counseled by a pharmacist. All patients received a phone call from the study investigators at day at day 30 post-discharge. Patients counseled by pharmacists received an additional phone call at day 2 to 3.	postdischarge counseling	

Primary Outcomes		
Name	Time Points	Measure
Readmission rates and any bleeding event	day 3 and day 30 post- discharge	Number of patients readmitted at day 3 and day 30 post discharge

Key Secondary Outcomes		
Name	Time Points	Measure
Documented elements of education in the medical record and reported mortality	30 days post-discharge follow-up	number of patients receiving elements of education



### **Trial Results**

### **Summary results**

200 patients were included with 100 patients in each group. Baseline characteristics were similar between the two groups (p > 0.05). More

patients in the pharmacist-counseled group contacted their physician within difference in bleeding rates at day 3 and day 30 post-discharge between the counseled group was better (p < 0.05), and more explicit education document of the standard of care group were more aware of their next appoint approximately group (52% versus 31%, p < 0.001).	ne two groups was observed. The documentation in the pharmacist- ents were provided by the pharmacist-counseled group (p < 0.001).
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	