REPUBLIC OF LEBANON MINISTRY OF PUBLIC HEALTH Lebanon Clinical Trials Registry

Value of pharmacy services upon admission to an orthopedic surgery unit

11/09/2025 14:08:45

Primary registry identifying number	Protocol number
LBCTR2020124680	LAU.SOP.ER2. 30/Sep/2019.
MOH registration number	
Study registered at the country of origin	Study registered at the country of origin: Specify
Yes	
Type of registration	Type of registration: Justify
Retrospective	not aware of existence of the registry since it is a new registry.
Date of registration in national regulatory agency 05/12/2020	
Primary sponsor	Primary sponsor: Country of origin
Lebanese American University	Lebanon
Date of registration in primary registry	Date of registration in national regulatory agency
09/12/2020	05/12/2020
Public title	Acronym
Value of pharmacy services upon admission to an orthopedic surgery unit	N/A
Scientific title	Acronym
Value of pharmacy services upon admission to an orthopedic surgery unit	N/A
Brief summary of the study: English	
This was a prospective single-arm study conducted in a tertiary care teaching hospital in Lebanon between October 2019 and April 2020. The study aimed to assess the impact of pharmacist-conducted medication reconciliation performed within 48 hours of hospital admission to the orthopedic surgical department. Participants were adult inpatients hospitalized for orthopedic surgeries with ≥1 outpatient medications. Properly trained pharmacy resident obtained the Best Possible Medication History (BPMH) and led on the reconciliation performes. The primary endpoint was the number of reconciliation errors (REs) identified. Descriptive statistics were used to report participants' responses and relevant findings. Linear regression was performed with the number of REs as a continuous dependent variable using Backward method. Results were assumed to be significant when p was < 0.05.	
Brief summary of the study: Arabic	

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Lebanon Clinical Trials Registry

إن الممارسة الحالية في المركز الطبي للجامعة اللبنانية الأمريكية - مستشفى رزق تتمثل في أن يسأل الفريق الطبي المريض و / أو العائلة عن التاريخ الطبي السابق والأدوية الحالية من أجل ضمان باستكمال مناسب للأدوية الحالية التي كنت تأخذها في المنزل أثناء إقامتك في المستشفى وتحسين استخدام الأدوية التي تأخذها في المستشفى. يتم تدريب جميع مقدمي الخدمات الصحية بما في ذلك الممرضات والأطباء والصيادلة على أخذ تاريخ الدواء. من خلال هذا البحث، نود تقييم تأثير التوفيق الدوائي التي يقودها الصيدلي على المرضى البالغين الذين تم إدخالهم إلى المستشفى لعمل جراحي في قسم الجراحة العظمية مقارنة بالمعلومات عن التاريخ المرضى التي يأخذها أعضاء أخرون في الفريق الطبي غير ساعة من دخول المريض ، يقوم الدكتور الصيدلي المقيم إدراء مقابلات مع المرضى و أو أفراد الأسرة من أجل الحصول&الصيدلي. بعد ساعة من دخول المريض ، يقوم الدكتور الصيدلي المقيم إدراء مقابلات مع المرضى و أو أفراد الأسرة من أجل الحصول&الصيدل على تاريخ كامل حول تاريخ الموضى والأدوية الحالية التي يأخذها المريض في المزن في الفريق الطبي يعد على تاريخ كامل حول تاريخ الموضى والأدوية الحالية التي يأخذها المريض و / أو أفراد الأسرة من أجل الحصول&الصيدل على تاريخ كامل حول تريخ الموضى والأدوية الحالية التي يأخذها المريض في المازل فيل القدوم لمستشفى. و هذا يشمل أسئلة حول الحالات الطبية ، و الحساسية الدوائية ، والأدوية التاتي يأخذها المريض في المنزل فيل القدوم لمستشفى. و هذا يشمل أسئلة حول الحالات وصفات طبية وأي أدوية تحتوي على أعشاب طبية أو مكملات غذائية. يسأل الدكتور الصيدلي المقيم أيضًا عن وقت آخر جرعة دواء تم تناولها من كل الأدوية التي يأخذها المريض. يؤطلب من كل هذه الأسئلة التأكد من أن الفريق لديه سجل كامل من أجل توفير أفضل ر عاية منافس من على من كل الأدوية التي يأخذ المريض، أطلب من كل هذه الأسئلة التأكد من أن الفريق لديه سجل كامل من أجل توفير أفضل ر عايد من كل الأدوية التي يأخذها المريض . يأطلب من كل هذه الأسئلة التأكد من أن الفريق لديه سجل كامل من أجل توفير أفض ر عالي مستشفى

Health conditions/problem studied: Specify

Orthopedic surgery patients including elective and emergency surgeries.

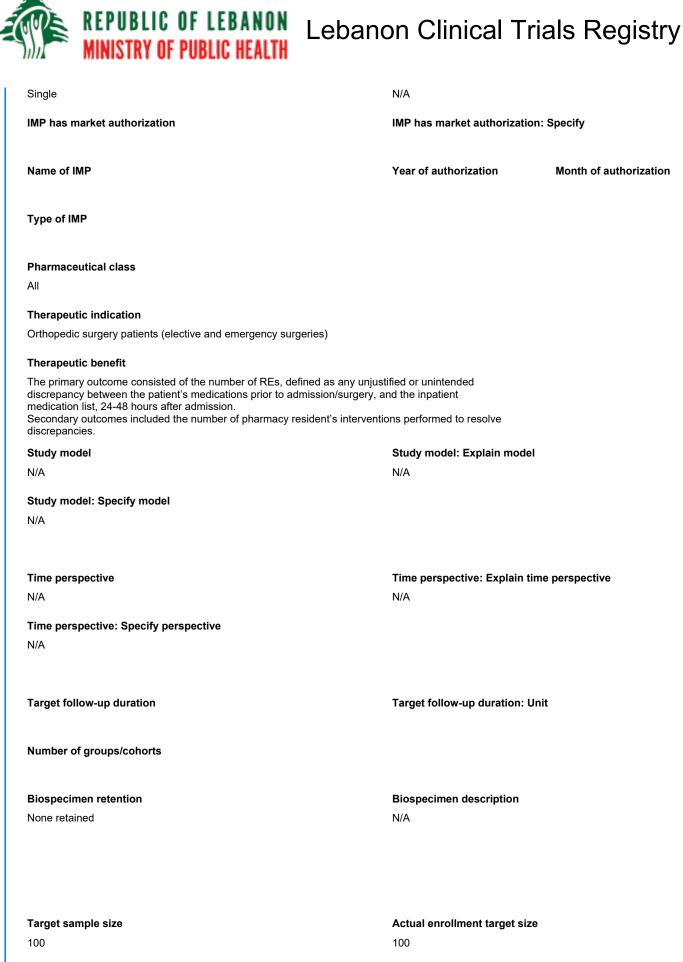
Interventions: Specify

A post-graduate year 1 pharmacy resident interviewed the eligible patients after obtaining their written informed consent to participate in the study. While interviewing patients for medication history, the pharmacy resident inquired about all prescription and over the counter medications. The pharmacy resident asked both open-ended and closed-ended questions to trigger the patient to remember medications that they may have forgotten to mention such as creams, ointments, inhalers, eye drops, ear drops, vitamins, and herbal or dietary supplements. To ensure complete documentation of the BPMH, the resident also inquired about the level of compliance, the last dose taken, and potential recent changes to select medication regimens. In order to obtain the BPMH, the pharmacy resident relied on more than one information source such as interviewing the family/caregiver, inspecting the medication bottles, or reviewing the patient's previous health record available at the institution. The pharmacy resident documented all the information on the "Medication Reconciliation Form" that was developed to guide the BPMH process and record the reconciliation findings. This form included general demographic data, surgery type, total number of home medications and their indications, history of drug allergies, and results of the critical analysis of discrepancies. The different sections of this data collection form and the patient interview tips were adapted from the Medications at Transitions and Clinical Handoffs (MATCH) Toolkit for Medication Reconciliation.12 Afterwards, the pharmacy resident necessary, the pharmacy resident intervened in the management of the patient's medication regimens during the reconciliation process by contacting the physician and clarifying any changes that need to be implemented to the current medication regimens.

Key inclusion and exclusion criteria: Inclusion criteria

Included patients were ≥18 years old, admitted for at least 48 hours to the Orthopedic Surgery Department for elective or emergency surgeries, and currently taking at least one regular prescription medication.

Key inclusion and exclusion criteria: Gender Both	Key inclusion and exclusion criteria: Specify gender
Key inclusion and exclusion criteria: Age minimum 18	Key inclusion and exclusion criteria: Age maximum 95
Key inclusion and exclusion criteria: Exclusion criteria Patients were excluded if they were admitted for less than 2 days or were up	nable to communicate in English or Arabic.
Type of study Interventional	
Type of intervention	Type of intervention: Specify type
Quality improvement	N/A
Trial scope	Trial scope: Specify scope
Safety	N/A
Study design: Allocation	Study design: Masking
Single Arm Study	N/A
Study design: Control	Study phase
N/A	N/A
Study design: Purpose	Study design: Specify purpose
Health services research	N/A
Study design: Assignment	Study design: Specify assignment



Date of first enrollment: Type

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Date of first enrollment: Date

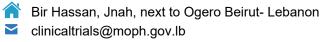


Actual	01/10/2019
Date of study closure: Type Actual	Date of study closure: Date 30/04/2020
Recruitment status Complete	Recruitment status: Specify
Date of completion 30/04/2020	
IPD sharing statement plan No	IPD sharing statement description N/A
Additional data URL	
Admin comments	
Trial status Approved	

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

Sources of Monetary or Material Support
Name
NA

Secondary Sponsors	
Name	
NA	





Contact for Public/Scientific Queries						
Contact type	Contact full name	Address	Country	Telephone	Email	Affiliation
Public	Elsy Ramia	LAU-Byblos	Lebanon	03-167962	elsy.ramia@lau.e du.lb	LAU SOP
Scientific	Elsy Ramia	LAU-Byblos	Lebanon	03-167962	elsy.ramia@lau.e du.lb	LAU SOP

Centers/Hospitals Involved in the Study				
Center/Hospital name	Name of principles investigator	Principles investigator speciality	Ethical approval	
LAUMCRH	Elsy Ramia, PharmD, MPH, BCPS	Clinical Assistant Professor	Approved	

Ethics Review				
Ethics approval obtained	Approval date	Contact name	Contact email	Contact phone
Lebanese American University- University Medical Center Rizk Hospital	30/09/2019	Christine Chalhoub	christine.chalhoub@lau.edu.lb	03212327

Countries of Recruitment	
Name	
Lebanon	

Health Conditions or Problems Studied			
Condition	Code	Keyword	
Orthopedic surgery	Orthopaedic follow-up care, unspecified (Z47.9)	Orthopedic surgery	



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Interventions				
Intervention	Description	Keyword		
Medication reconciliation	A post-graduate year 1 pharmacy resident interviewed the eligible patients after obtaining their written informed consent to participate in the study. While interviewing patients for medication history, the pharmacy resident inquired about all prescription and over the counter medications. The pharmacy resident asked both open-ended and closed-ended questions to trigger the patient to remember medications that they may have forgotten to mention such as creams, ointments, inhalers, eye drops, ear drops, vitamins, and herbal or dietary supplements. To ensure complete documentation of the BPMH, the resident also inquired about the level of compliance, the last dose taken, and potential recent changes to select medication regimens. In order to obtain the BPMH, the pharmacy resident relied on more than one information source such as interviewing the family/caregiver, inspecting the medication bottles, or reviewing the patient's previous health record available at the institution. The pharmacy resident documented all the information on the "Medication Reconciliation Data Collection Form" that was developed to guide the BPMH process and record the reconciliation findings. This form included general demographic data, surgery type, total number of home medications and their indications, history of drug allergies, and results of the critical analysis of discrepancies. The different sections of this data collection form and the patient interview tips were adapted from the Medications at Transitions and Clinical Handoffs (MATCH) Toolkit for Medication Reconciliation. Afterwards, the pharmacy resident compared the obtained history from the patient to the medications ordered by the physician for the patient's current admission. When deemed necessary, the pharmacy resident intervened in the management of the patient's medication regimens during the reconciliation process by contacting the physician and clarifying any changes that need to be implemented to the current medication regimens.	Medication reconciliation, patient safety, quality improvement, orthopedic surgery		

Primary Outcomes		
Name	Time Points	Measure
Number of Reconciliation Errors (REs)	within 48 hours of admission	any unjustified or unintended discrepancy between the patient's medications prior to admission/surgery, and the inpatient medication list, 24-48 hours after admission.

Key Secondary Outcomes		
Name	Time Points	Measure
Number of pharmacy resident's interventions	within 48hours of admission	interventions performed to resolve unintended discrepancies identified.



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	