

#### Evaluation of Pharmacist-Initiated Discharge Medication Reconciliation and Patient Counseling Procedures in the Emergency Department

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Main Information	
Primary registry identifying number	Protocol number
LBCTR2023095432	PIDMR3
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	LBCTR website was not accessible
Date of registration in national regulatory agency	
Primary sponsor	Primary sponsor: Country of origin
None	None
Date of registration in primary registry	Date of registration in national regulatory agency
19/03/2024	
13/03/2024	
Public title	Acronym
Evaluation of Pharmacist-Initiated Discharge Medication Reconciliation and Patient Counseling Procedures in the Emergency Department	
Scientific title	Acronym
Evaluation of Pharmacist-Initiated Discharge Medication Reconciliation and Patient Counseling Procedures in the Emergency Department	
Brief summary of the study: English	
This was a randomized controlled study that included adult patients discharged from the ED at the Lebanese American University Medical Center – Rizk Hospital (LAUMC-RH) with at least one discharge medication during the period of data collection from December 2021 to April 2022. The control group consisted of patients receiving the standard of care, while the intervention group was counseled at discharge by a pharmacy resident. The intervention group received follow-up calls at days 3, 14, and 30, while the control group wasonly followed-up with telephone calls on day 30 post-discharge. The pharmacy resident conducted the follow -up phone calls. Additionally, the pharmacy resident identified discrepancies that were reported to and discussed withthe prescribing physician and an intervention was performed if needed. The primary endpoint was the number of unintended medication discrepancies identified by the pharmacy resident that are categorized as: omission, commission, different dose/route/frequency, or different medication ordered. The	

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Brief summary	of the	study:	Arabic
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Brief summary of the study: Arabic					
ت مرضى بالغين خرجوا من قسم الطوارئ في المركز الطبي بالجامعة اللبنانية الأمريكية – مستشفى رزق .2022 إلى أبريل 2021دواء واحد على الأقل للخروج خلال فترة جمع البيانات من ديسمبر الذين يتلقون مستوى الرعاية، في حين تم تقديم المشورة لمجموعة التدخل عند الخروج من قبل أحد المقيمين رح مقيم الصيدلية مكالمات هاتفية30 و 14 و 31صيدلية. تلقت مجموعة التدخل مكالمات متابعة في الأيام رى مقيم الصيدلية مكالمات هاتفية 30 و 14 و 31صيدلية. تلقت مجموعة التدخل عند الخروج من قبل أحد المقيمين رى مقيم الصيدلية مكالمات هاتفية 20 و 14 و 31صيدلية. تلقت مجموعة التدخل مكالمات متابعة في الأيام . التناقضات التي تم الإبلاغ عنها ومناقشتها مع الطبيب الموصوف وتم إجراء التدخل إذا لزم الأمر . اقتداقصات التي تم الإبلاغ عنها ومناقشتها مع الطبيب الموصوف وتم إجراء التدخل إذا لزم الأمر مناقضات غير المقصودة في الأدوية التي حددها طبيب الصيدلية والتي تم تصنيفها على النحو التالي. الإغفال AD أو العمولة، أو جرعة/طريق/تكرار مختلف، أو طلب دواء مختلف. وشملت نقاط النهاية الثانية هو	تتألف المجموعة من المرضى ، في حين تمت متابعة المجموعة الض بعد الخروج من المستشفى. أج ،كانت نقطة النهاية الأولية هي عدد الت				
Health conditions/problem studied: Specify					
Medication reconciliation upon discharge from the emergency department					
Interventions: Specify					
Pharmacist-Initiated Discharge Medication Reconciliation and Patient Coun	seling Procedures				
Key inclusion and exclusion criteria: Inclusion criteria					
Participants were eligible if they met the following inclusion criteria: adult pa least one newly prescribed discharge medication.	tients (≥18 years old) who were dis	scharged from the ED with at			
Key inclusion and exclusion criteria: Gender	Key inclusion and exclusion c	riteria: Specify gender			
Both					
Key inclusion and exclusion criteria: Age minimum	Key inclusion and exclusion c	riteria: Age maximum			
18					
Key inclusion and exclusion criteria: Exclusion criteria					
Key exclusion criteria consisted of patients who were admitted from ED to L provide consent to participate in the study.	AUMCRH as inpatients, transferred	d to another hospital, or did not			
Type of study					
Interventional					
Type of intervention	Type of intervention: Specify t	уре			
Educations programs	N/A				
Trial access	Trial acons, Specify acons				
Trial scope Safety	Trial scope: Specify scope				
Salety	N/A				
Study design: Allocation	Study design: Masking				
Randomized controlled trial	Open (masking not used)				
Study design: Control	Study phase				
N/A	N/A				
Study design: Durness	Study design, Specify number				
Study design: Purpose Health services research	Study design: Specify purpose N/A	;			
	N/A				
Study design: Assignment	Study design: Specify assignment	nent			
Parallel	N/A				
IMP has market authorization	IMP has market authorization:	Specify			
Name of IMP	Year of authorization	Month of authorization			
Type of IMP					



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**Pharmaceutical class** N/A Therapeutic indication N/A Therapeutic benefit Reduction of reconciliation errors Study model Study model: Explain model N/A N/A Study model: Specify model N/A **Time perspective** Time perspective: Explain time perspective N/A N/A Time perspective: Specify perspective N/A Target follow-up duration Target follow-up duration: Unit Number of groups/cohorts **Biospecimen retention Biospecimen description** None retained N/A Target sample size Actual enrollment target size 100 Date of first enrollment: Type Date of first enrollment: Date Actual 01/12/2021 Date of study closure: Date Date of study closure: Type 30/05/2022 Actual **Recruitment status Recruitment status: Specify** Complete Date of completion 30/05/2022 IPD sharing statement plan IPD sharing statement description Yes

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	Data available upon request	
Additional data URL		
Admin comments		
Trial status		
Approved		

#### **Secondary Identifying Numbers**

No Numbers

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

No Sources

#### **Secondary Sponsors**

No Sponsors

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



Centers/Hospitals Involved in the Study			
Center/Hospital name         Name of principles investigator         Principles investigator speciality         Ethical approval			Ethical approval
Lebanese American University Medical Center Rizk Hospital	Dr. Elsy Ramia	Pharmacy Education	Approved

Ethics Review				
Ethics approval obtained	Approval date	Contact name	Contact email	Contact phone
Lebanese American University- University Medical Center Rizk Hospital	17/09/2021	Ms. Karmen Baroudi	karmen.baroudy@lau.edu.lb	03953388

#### Countries of Recruitment

Name

Lebanon

#### **Health Conditions or Problems Studied**

No Problems Studied



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Interventions			
Intervention	Description	Keyword	
Medication Reconciliation and Discharge Counseling	Patients were randomly assigned to either the control group or the intervention group with a 1:1 allocation, by block randomization using a block size of 4. Patients in the control group received the standard of care provided by the ED staff (physicians, medical residents, and/or nurses) upon admission and discharge whereby patients only received a prescription of the newly prescribed medications at the ED, with no formal medication reconciliation done. Patients in the intervention group received a pharmacist- conducted medication reconciliation and discharge counseling by the pharmacy resident. Prior to discharge from the ED, the pharmacy resident also documented any unintended medication discrepancies detected, and reported it to the prescribing physician. Interventions were made to the medical team and changes were done as needed. The pharmacy resident conducted follow-up telephone interviews with all patients after ED discharge to collect relevant patient outcome measures: day 30 in the control group and days 3, 14, and 30 in the intervention group. The resident addressed drug-related questions and referred medical concerns to the prescribing physician. Patients had the option to withdraw consent at any time during the study.	Medication Reconciliation, Counseling, Pharmacist	

Primary Outcomes				
Name	Time Points	Measure		
the number of unintended medication discrepancies identified by the pharmacy resident categorized as: omission, commission, different dose/route/frequency, or different medication ordered.	at day 30 post discharge	the number of unintended medication discrepancies identified by the pharmacy resident categorized as: omission, commission, different dose/route/frequency, or different medication ordered as analyzed by the pharmacy resident.		

Key Secondary Outcomes		
Name	Time Points	Measure
the composite endpoint of hospital readmission, ED visits, and physician contact	at 30 days post-discharge	Number of hospital readmission, ED visits, and physician contact as reported by the patient



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#### **Trial Results**

#### Summary results

 Among 81 patients, 42 (62%) patients were randomly assigned to the intervention group, and 39 (48%) patients to the control group. At day 30,<br/>The mean number of medication discrepancy identified. The most common type of discrepancy was drug commission and drug omnission;<br/>they mostly occurred in the control group and this difference was statistically significant. 10 patients from the control group had a better<br/>understanding of their medication stat was statistically significant.

 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