

Department of Pharmacy

Establishment of Pharmaceutical Services within an Emergency Department

SERVICE

The service was established to provide a holistic pharmaceutical service tailored the needs of the emergency to department. The service was provided within Adult Emergency Department (ED) in Mater Dei Acute General Hospital (MDH) by one appointed pharmacist, covering weekdays from 07:30 to 15:00.

ADAPTABILITY

- Observation of were conducted
- 87 nurses on this pharmaceutical service

JUSTIFICATION

The essential role of the pharmacist as part of the ED multidisciplinary team has been documented to support the delivery of safe and effective medication use processes within this fast pace clinical setting governed by high decision density taken promptly for the critical patient (Cohen, 2009). Prior to this study, this service was absent within ED MDH, the main and only ED within Malta.



operational services for effective delivery of patient-centred service.

Other services were also identified as necessary within the study setting and included:

- An antidote hazard exercise resulting in additions of antidotes to the official antidote list with formulary changes carried out
- Delivery of continuous education to nurses and overall medication selection process was over seen for 6 national events.

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SIGNIFICANCE

involved standardisation of **Operational** services ED medication centralised floor-stock pharmacy model.

- control

• Medication stock control resulted in drug additions to in-patient setting: parenteral lorazepam, levetiracetam and 20% intralipid, oral ibuprofen.

f ED	dynamics	and	completion	of	gap	analysis	tools
d for	25 hours						

- Two validated questionnaires were completed by ED 55 physicians and
- Gold standard international guidelines were incorporated with these
- findings to delineate a blueprint for the holistic service (Figure 1).

Operational

- Medication selection
- Medication stock management
- Maintenance of reorganization and implemented policies

Clinical

- Medication reconciliation
- Patient counseling upon discharge
- Participate during resuscitation cases
- Assistance in poisoning and toxicology cases
- Medicine information

Others

- Bridge between MDH Pharmacy and ED
- Pathways development
- Annual audit participation

Figure 1. The three services comprising a holistic pharmaceutical service • The pharmaceutical service necessitated both the clinical and

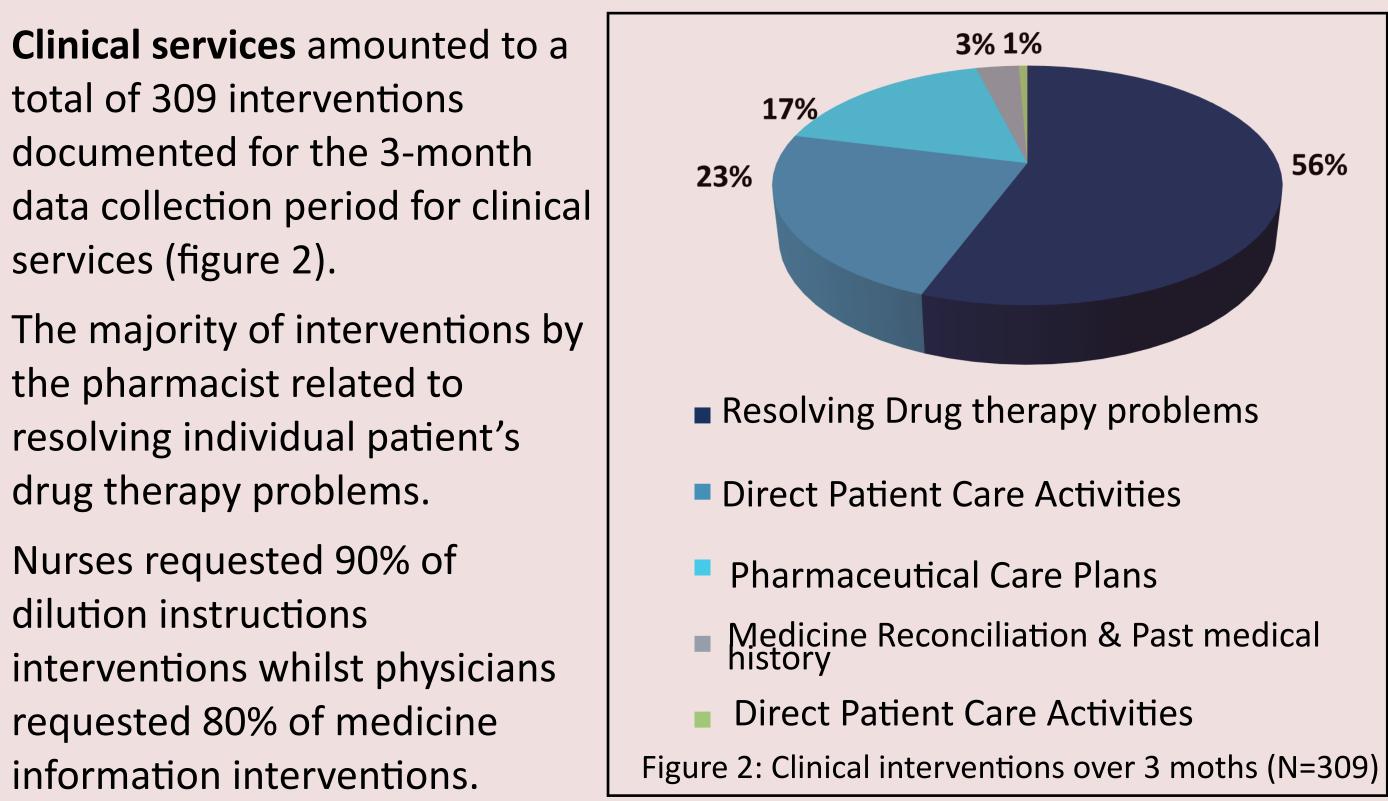
Issuing of 6 new departmental guidelines

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• **Reorganisation** of medication cabinets in accordance to formulation, identification and segregation of high alert drugs

• Labelling in generic name using *Tall-Man lettering* to minimise look-alike and sound-a-like risk of medication errors with strategic colouring for faster identification of drug classes (Red for high alert, yellow for antibiotics, green for suppositories and blue for nebulisers)

• Identification of light sensitive drugs to ensure correct storage and minimise inadvertent stock wastage including room temperature



CONCLUSION

As part of the **ED multidisciplinary** team, the pharmacist improved the safety and quality in the overall medication use process within this fast paced setting. The characteristic of this established service was that the service focused on contributing to the clinical setting by focusing on clinical services, operational aspects related to medication stock management and other administrative care tasks. This approach was strategic for the ED physicians and ED nurses to view the pharmacist contribution as an added value contributing to safe, rational and

REFERENCES

Cohen V. Safe and Effective Medication Use in the Emergency Department. Bethseda: American Society of Health-System Pharmacists, 2009.

