

Initiation of Pharmacist Led Anticoagulation Services in Cardiac Care Hospital

Munazza Quraishi, Sumaira khan, Shehzeena Arif

Tabba Heart Institute, Karachi, Pakistan

Background: In cardiac care hospital a number of medications are used that falls in category of High Alert Medications. Special considerations should be made while prescribing dispensing and administrating a high alert medication. Anticoagulants are drugs that are included in this list because of various drug-drug interactions, therapeutic drug monitoring and adverse drug event associated with the use of these drugs.

Objective: Upon reviewing literature it is also evident that anticoagulants are class of medications most frequently leads to emergency room visits and hospital admissions. On the basis of this evident features Tabba heart Institute Pharmacy department have created opportunities to improve quality care outcomes related to use of anticoagulants.

Method: Currently anti coagulation services are provided by nursing staff in THI. This service will now be operational under the supervision of Clinical pharmacist. The plan is to provide coverage in effective manner that will provide services to Inpatient, discharged and outpatient.

Results: Pharmacy department on monthly basis monitoring a KPI which is also an IHI global trigger tool for ADE monitoring of INR >6. This KPI data from July 2019 to June 2020 suggest that, the incidence level of bleeding with correspondence to INR value of >6 is around 15.6% for admitted patients. Outpatient INR data from January 2020 to June 2020 suggest that 65% of value of INR falls in sub therapeutic ranges (< 1.9) while 11% is supra-therapeutic (> 6). Rest 24% falls in therapeutic range (1.91 – 3.1). Admission due to warfarin toxicity in emergency setting is also alarming showing 6 patients were admitted in year 2019 and 8 patients till June 2020.

Conclusions: As the data is suggestive for the quality improvement measures with the use of anti coagulant in cardiovascular patients, an Anti coagulation stewardship program is designed through which clinical pharmacist led anti coagulation services are planned to be initiated. The purpose is to ensure safe and effective use of anti coagulants in THI.