



**Service Priorities and Programmes**  
**Electronic Presentations**

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**Bottle Adaptors for Medication Safety and Dangerous Drugs Regularities in AHNH and TPH**

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**Introduction**

A liquid drug is measured for administration by pouring it into a calibrated cup. The dosage is inaccurate and wastage is inevitable. When the drug is a dangerous drug (DD), repeated inaccuracy may lead to DD irregularities. Some staff may dip a syringe into the bottle to pipet the drug. An injection syringe may be inadvertently used leading to potential parental administration of oral drugs. Infection control is a concern.

**Objectives**

1. Provide a safe and convenient device for pipetting liquid drugs accurately and easily and prevent spillage on bottle tipping to ensure medication safety and prevent irregularities of involved liquid DD
2. Provide device together with dispensed drugs to simplify the operation

**Methodology**

A bottle adaptor is found to fit the mouths of the drug bottles supplied through the hospital pharmacy. It fits only an oral syringe. No spillage of drug occurs when the bottle of drug is laid open and horizontal on the table. The Hospital Medication Safety Committee consolidates criteria for the use of bottle adaptor: (i)The drug is the syrup form of a dangerous drugs or a drug which can cause serious harmful effect in case of overdose; (ii) The drug is clear in colour and so may be mistaken as an intravenous drug when being drawn with an injection syringe; (iii) The bottle from the supplier does not come with any adaptor; (iv) The bottle adaptor fits only the oral syringe to prevent. Two drugs, namely syrup morphine (DD) and chloral hydrate are identified suitable for the use of bottle adaptor. Pharmacy helps supplying the bottle adaptor with a safety reminder when issuing the drugs to wards.

**Result**

Nurses are very happy about the bottle adaptor, consider it simple to use and durable. It enables staff to draw the correct volume of drugs easily and accurately. As it fits only an oral syringe, nurses need not be worried about the wrong use of injection syringe. As amount withdrawn is correct and spillage is prevented, the problem of overage and

wastage is managed especially for the dangerous drug. Central supply of the bottle adaptors with the involved drugs makes the operation smooth. The bottle adaptor is value-for-money, several dollars per piece for important medication safety,