

Unit -5

Drug Distribution

Unit -5

Drug Distribution

* Definition →

- Drug distribution process
විකල්ප වශයෙන්
විකල්ප වශයෙන්
විකල්ප වශයෙන්



B) out-patient distribution.

A) In-Patient distribution →

- රෝගීන් වහලුන්
වහලුන් වශයෙන්
වහලුන් වශයෙන්
- eg -
- | | | | |
|---|---|---|---|
| 1 | 1 | 1 | 1 |
| 2 | 1 | 1 | 1 |
| 2 | 1 | 1 | 1 |

Hospital Pharmacy | D Pharm 2nd Year

Unit-5

Drug Distribution

* Definition →

Drug distribution is the process of moving drugs from hospital or storage area to patient or distributor/transfer point etc.

* Types of drug distribution -

1) In-patient distribution

2) out-patient distribution.

1) In-Patient distribution →

• It is patients who are in the hospital or admit etc. and requirement of drugs

eg -

Hospital or admit etc. etc. on all or treatment etc. etc.

* Types of D.D.s to in-patient -

1) Individual prescription order

2) complete floor stock system.

- 3) Unit dose drug distribution
- 4) Drug basket method.

① Individual prescription order system →

- In prescription system order type first is/
- After that physician individual patient or prescription order is/
- In prescribed drug or order medical store is/ obtain order is/

* Advantages →

- In Pharmacist - doctor and nurses

or other interaction provide order is/

- All medication orders are directly pharmacist or first reviewed (give) order is/ etc.....

* Disadvantages →

- Patient or order cost increase is/ order is/
- Required drug or obtain order is/ delay is/ etc.....

② Complete floor stock system →

- सखे drugs ओ Pharmacy से nursing station पर store दिना गीत है।
 - And physician ओ chart ओ according nurse ओ घर patient ओ दिना गीत है।
 - nursing station पर drug ओ गीत floor stock system मेवित है।
- * Advantages →
- Needed medication easily available है गीत है।

• Drugs Pharmacy ओ return करत ओ है गीत है।

• etc....

* Disadvantages →

- Medication error ओ changes increase है गीत है।
 - Nurses पर workload increase है गीत है।
 - Drugs ओ dehydration increase है गीत है।
- etc....

③ Drug Basket method →

- सखे method से night duty nurses all rooms

It and submitters of medicine
and availability and verify on all
the Pharmacy and master list and
help etc/

- Then floors are drug and demand
and fill for and etc/
- Used drug basket and Pharmacy
are sent for and etc/ and
fill for and etc/
- And finally basket and floor
are delivered for and etc/

* Advantages →

- Required drugs are easily and

quickly delivered and for
and etc/

- Staff and direct decrease
and etc/

etc.....

* Disadvantages →

- Drugs are dehydration increase
and etc/
- Pillage and chances increase
and etc/
- etc.....

⊕ Unit-dose drug distribution →

- Unit dose medication and
order, packed, administered,

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ഒരു ഗിഫ്റ്റ് ഉം single dose unit
drugs ന് പൂർണ്ണമായി അളവ്
containing അളവ് ഉം

* Advantages →

- Better financial control ഉം
കുറവ് ഉം
- ചെറിയ അളവ് ഉം
- Nursing station ന് storage
facilities . ന് requirement കുറവ്
ഉം

എന്നിങ്ങനെ

* Disadvantages →

- ചെറിയ ഓർഡറിംഗ്,
• time കുറവ് ഉം

- staff increase ഉം ഉം
- cost increase ഉം ഉം ഉം
എന്നിങ്ങനെ

⑧ Drug Distribution to out-
patients -

- out patients ന് Hospital
നੂੰ admit ചെയ്ത് ഉം medicine
അനുസരിച്ച് ഉം ഉം ഉം
- out-patients ന് ഉം ഉം ഉം
- without prescription ന് medication
issue ചെയ്ത് ഉം ഉം

* Types of out-patient →

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① Emergency Patients →

• severe type of patients are immediate treatment of requirement
एक ही

• are serious health conditions are
एक ही

② General out-patient →

• severe type of patients are general condition of treatment
एक ही

ie - other than emergency condition.

③ Ambulatory patients →

severe type of patients hospital
in severe and in Primary care
एक ही

* Location of out-patient department -

• in Hospital building or ground floor or located
एक ही

• out-patient and in-patient service combined एक ही
same windows एक ही

- Separate out-patient Pharmacy
என்ப வகை/
- Distribution of Drugs to ICU / ICCU / NICU / EW →
- Some life-threatening diseases of patients of Govt Hospital or specialised hospital units (department) என்பது
- In-ct close monitoring (நிர்வாக) and extensive treatment and requirement என்பது

• Such specialised units are listed below -

- ① ICU (Intensive care unit) →
 - ICU was specific department - patients of critically ill patients of Govt Hospital
 - In-ct intensive care and constant monitoring and requirement என்பது
- ② ICCU - (Intensive coronary care unit) -

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- Pharmacist or nurses medicines of regularly check and ३/
 - And required medicine and proban documentation of first pills १०५५ ५/
 - medicines like -
 - Injections
 - Sedatives.
 - Diazepam
 - Digoxin
- अतः.....

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Automated Drug dispensing system And Devices

* Introduction →

Automated drug dispensing system pharmacy procedure एडर ए/ मशीन prescription मशीन fill order and medicines order प्राप्त order ए/

* Needs for the use of

Automation →

- sales increase एडर ए/

- Quality and safety improve एडर ए/

- cost cutting

etc....

* Advantages →

- Mistake decrease एडर ए/

- Pharmacy staff reduce एडर ए/

- Job stress decrease एडर ए/

- Upgraded documents.

etc....

* Disadvantages →

- space and budget or-रि-नि-

- system failure.

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- extra training and technical support or requirement etc...

* Devices used in Automated drug dispensing system →

- 1) ADC
- 2) MAR
- 3) CPAC
- 4) CDSS
- 5) Robotic dispensing.

① Automated dispensing cabinet
ADC →

- It's computerised medication cabinet etc...
Hospitals and other health care facilities if used etc...

* features →

- Drugs or safety provide order etc
- Provide a fast service.
- Automatic inventory control provide order etc
- Provide storage environment.
etc.....

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② MAR (Medication Administration

record) →

- 2nd monthly list e¹ d¹ & prescription on 1st each individual patient on 1st prescribed e¹ d¹ & And 2nd list e¹ d¹ & medicines on with administration timing and nurse on signature.
- 2nd drug if changes and missing dose use chart e¹ d¹

③ CPOE (computerised Physician

order entry) →

- 2nd 2nd clinical information system e¹ d¹ on 1st patients healthcare professionals on immediately use drug, laboratory test on computer if treatment on 1st use order record on 1st d¹ & e¹
- 4) CDSS (clinical decision support system)
- 5) Robotic system
- 6) Melanqhin dispensing system.
- 7) Baxter ATC-212 dispensing system.

* Distribution of Narcotics and Psychotropic Substances and

Storage →

- set controlled substances and
- Drug & cosmetic act 1940 and rules - 1948 according.
- Narcotics and psychotropic substances and without prescription sold and over OTC/

* Distribution of Narcotics and psychotropics in Hospitals →

- Narcotics drug → like - Morphine, codeine, tramadol etc...
- Psychotropics → like - Caffeine • Alcohol • Nicotine etc...
- Physician triplicate prescription pad of over medicines and prescribe over 3 Pharmacy
- The following detail are to be verified (In-patient / out-patient) -

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- 1) Narcotic prescription or data.
 - 2) Patient or name.
 - 3) Patient or name and address.
 - 4) Name and quality of drug.
 - 5) Frequency and route of administration.
 - 6) Name of nurse administering drug (In-patient)
 - 7) RMP or Name and registration number.
 - 8) RMP or signature
- Prescription or all detail confirm or pharmacist or

Narcotics or dispatched
or or

- To the out-patient
- To the staff nurse/doctor for In-patient.

* Storage of Narcotics and psychotropics →

- Narcotics and psychotropic substances all times lock and key or secured or
- Set register or or different register or

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- Narcotics or vit other object
or or or or or
- Drug storage room or or or or or
 - Adequate lighting.
 - Adequate shelving
 - Adequate temperature.
 - etc.....

Unit - 5

complete

Thank you ☺

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THANK YOU.

By Dr Firoz khan

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