##### King Saud University

##### College of Pharmacy

Pharmacology Department

# Drug Profile Handout

**322 and 326 PHL**

**Drug Profile**

Is a presentation of a drug in front of an audience and writing a report about the drug.

**Objectives**:

To collect update information about a specific drug and this involve details of its mechanism of action, indication, side effects, contraindication and drug interaction.

Ex

1. Describe the disease.
2. Describe the risk factor.
3. Describe the pharmacology of the drug\s.

(Details of mechanism of action, indication, side effects, contraindication).

1. Explain treatment choices.
2. Outline the formulation available.
3. Describe the drug issues for example; adverse drug reactions, pregnancy, drug interaction, and life style advice.
4. Describe goals of therapy, including monitoring and the role of the pharmacist \clinician.

## **How to write a report:**

The **layout** of the report is as follow:

**1) Title page**

King Saud University

College of Pharmacy

Pharmacology Dept Pharmacology Dept



:

**Drug**

322 OR 326 PHL

Prepared by:---

Supervised by:---

Month Year

**2) Table of contents**

Table of Contents page no

Title………………………...1

Introduction……...………...5

Drug………………………...9

Side effect……………….....15

………………………

…………………..

………………..

References…………………20

2

**Define the Drug**

* 1. **Introduction:**

The introduction should not be more than 3 pages. This section involves summary of:

* 1. Disease(s), treatment by this drug with signs and symptoms.
  2. Classification of other groups used in the treatment of the disease.
  3. **Mechanism of action**

This part should be in details using pictures, figures…etc. With special refer to molecular pharmacology i.e. receptors, 2nd messengers…etc.

* 1. **Therapeutic uses** (which means clinical applications or indications).

4.1. Analgesic

4.2. Cough suppressant

4.3. In severe diarrhea

* 1. **Side effects**:

5.1 Constipation due to ………………..

5.2. Bronchospasm due to……………

* 1. **Caution** (means drug can be given but monitor for example liver enzyme)

E.g. Salbutamol is used with caution in

6.1 Hyperthyroidism because all sympathetic activity is stimulated…..

6.2 …………………………………..

* 1. **Contraindication**: (means drug can’t be given as in case of pregnancy or lactation)

E.g. Propranolol is contraindicated in

7.1 In asthmatic patient due to…………………

7.2 …………………………………………..

Explain the pregnancy category of the drug:

For example propranolol is pregnancy category C which means the animal studies have shown an adverse effect on the fetus and there are no adequate and well-controlled studies in humans.

* 1. **Pharmacokinetics**:

This section includes briefing of dosage forms, t1/2, absorption, excretion……

* 1. **Drug interactions**:

This section to be represented in a table form as follows: e.g. Morphine

|  |  |  |
| --- | --- | --- |
| Drug | Cause | Reasons |
| codiene | CNS ↓ | Additive effect |
|  |  |  |

10) **Comparison**

This usually related to discussion. Is it drug of choice? Is it safe? Is it used in pregnancy? Pediatric? Geriatric? Is it beneficial more than other drug?

It should be done with a special emphasis on the core differences between them.

11) **Conclusion:**

At the end you give a summary of your drug profile in term of its usefulness and advantages, disadvantages of its uses, which is related to update information in comparison to other drug.

12) **References**:

References should be cited in the text numbers (in-text citation) which are going to be listed in the references page in accordance to the sequence mentioned in the text.

They should be following in order.

E.g. Aspirin is used as analgesic (1).

### Writing ethics

* Copy and paste are not allowed and if you want to do so, quotation of the reference is essential for not more than 30 words.
* **References writing**:

If your reference was from a book:

Ehlers, MR and Dzau, VJ. (1990). Angiotensin Convering Enzyme. In Laragh JH,

Brenner (eds): Hypertension, New York, Raven press. P.123-129.

If your reference was from a Journal:

Dzau, VJ. (1998). Cardiac renin angiotensin system. Cardiology, vol. 8,p.12-40.

**For more details refer to attached handout**

#### Any paper Reference should be submitted with your report

* The **most important references** are:
  1. Goodman and Gillaman’s Latest edition.
  2. Rang & Dale. Latest edition.
  3. Katzung. Latest edition.
  4. Journal references
* **Internet references** (www. …..com) are not preferred except for some scientific website
* **Font size** to be 12 and spacing to be 1.5 or double titles to be 14.
* All your **tables and Figures** should have legends or titled and numbered (as well as to be referred in your text).
* **No abbreviations** should be explained in a key under e.g. ACh: acetylcholine
* **No** excuses at all regarding typing or writing. Always **check** the spelling mistake.

**Power Point Presentation**

**How to prepare it**

1. Use appropriate color for the background and text, contrast colors are preferred.
2. Avoid crowded slides.

#### How to present it

1. Time of your presentation not more than **15 min.**
2. Each slide should be presented as **points** and **not a full paragraph** and the student should be able to give full information.
3. You should **not read** from your paper, interact with the audience, and eye contact.
4. **No Arabic** languages and to **speak** all time in **English**.
5. **Ask question yourself at the end to get the feedback & responses from your fellow students.**
6. Try to get the drug leaflet which is full of some useful information & this is by no mean an ad to the drug.

**N.B**

Marks will be deduced if you do not follow the above mentioned rules.

### Time limit

The report should be submitted not less than 3 days before your day of presentation and there will be one mark penalty for each late day.

### Marks distribution

**3 Marks** for the drug profile report to cover learning outcomes, sequence, references –etc.

**7 Marks** for the presentation to cover content, time management, interaction, response to questions and feedback.

**Good Luck**