

## Emergency First Responder

### Pharmacology



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## Objectives

*By the end of this session you will be able to:*

- Safely administer and assist patients with self administration of medications



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## Pharmacological Terminology

- Indication
  - The condition for which the drug is being prescribed
- Contraindication
  - Condition where the drug can be harmful to the patient and is not recommended for use



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## Pharmacological Terminology

- Side Effect
  - Effect a drug has upon a body that is not desired but is a known response within usual dose ranges
- Adverse Reaction
  - An undesired or unexpected effect of a drug administered



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## Medication Names

- Trade Name
  - This is the name chosen by the manufacturer
  - E.g. Disprin® Ventolin® and Entonox®
- Generic Name
  - This is usually based on or a descriptive of the chemical structure of the drug, these are the names that an EFR should normally refer to
  - E.g. are Aspirin, Salbutamol, and Nitrous Oxide 50% and Oxygen 50%



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## Medication Allergies

- Allergic reactions are severe life threatening events
- A small rash is not an indicator for withholding a drug



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## Seven Rights

1. Right Dose
  - Including checking the expiry date
2. Right Route
  - PO, SL, INH
3. Right Patient
  - Including verbalising the indications
  - Including monitoring the patient closely for any adverse reactions



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## Seven Rights cont.

4. Right Time
5. Right Medication
  - Including verbalising the contraindications
6. Write it down
7. Right to Refuse



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## Assisting the Patient with Medication

- There are certain drugs an EFR can assist a patient with self administration:
  - Glyceryl Tri-Nitrate
  - Salbutamol

**Remember the EFR can only assist with administration!**



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## Assisting the Patient with Medication

We will now go through your Medication Formulary for Glyceryl Tri-Nitrate



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## Assisting the Patient with Medication

We will now go through your Medication Formulary for Salbutamol



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## Medication Approved for EFR Administration

We will now go through your Medication Formulary for Aspirin



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## Medication Approved for EFR Administration

We will now go through your Medication Formulary for Glucose Gel



## Medication Approved for EFR Administration

We will now go through your Medication Formulary for Oxygen



## Summary

- Define the terms, Side Effects, Indications, Contraindications and Adverse Reactions
- Differentiate between Trade and Generic Names
- List the Prescribed Medication which the EFR can assist a patient with self administration
- List the pre administration checks to follow when administering medication



## Summary

- Explain the importance of establishing if there any allergies
- Explain the dangers associated with inappropriate administration
- List the Dose, Route, Indications, Contraindications and Side effects of medications the EFR can administer

