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POWDERS

ORAL REHYDRATION POWDER

Diarrhoea may cause metabolic acidosis whereas vomiting may result in metabolic alkalosis hypopotassimia. When the fluid and electrolyte loss is severe intravenous infusion becomes essential.

To compensate the loss of fluid and ions in diarrohea and also in vomiting Oral Rehydration Salt dissolved in boiled and cooled water is administered orally. Addition of glucose facilitate the absorption of sodium from intestine and water causes expansion in plasma volume and corrects dehydration.

	Na	K	Cl	HCO3	Volume
		m mol 1-1			litre/day
Normal stoc	ol 20-40	30-60	20	-	0.1
Diarrhoea	30-140	30-70	-	20-80	Variable

Loss of electrolytes in diarrhoeal and normal stool

Changes in body weight of 0.5-1 kg in 24 hours are usually due to loss or gain of water. The following table relates the degree of dehydration to weight loss.

Assessment of dehydration

Dehydration	Fluid loss % body weight		
	Children	Adult	
Mild	5	4	
Moderate	10	6	
Severe	15	8	

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LINIMENTS

Liniments are liquid or semisolid preparations intended for use over skin. Many of them an solutions or emulsions. They are intended for external application and should be so labelled. Liniments are applied with friction and rubbing of the skin, the oil or soap base providing for ease of application and massage. Liniments should not be applied to skin areas that are bruised or broken.

TURPENTINE LINIMENT (I.P.)

Ingredients

Soft soap		4.5 gm
Camphor		2.5 gm
Turpentine oil		32.5 ml
Water	to	50.0 ml
Mix and prepare a liniment		

Action of ingredients :

Rubefacients : acts by counter irritation. Counter irritation is comforting in painful lesions of the muscles, tendons, and joints, and in non-articular reheumatism. Soft soap is used as emulsifying agent and provides the ease of application and massage water acts as vehicle. Camphor and turpentine oil act as counter irritants and rubefacients.

Therapeutic use :

- Abdominal visceral pain
- Muscular or joint pain

Report Sheet - Dissolution Time of Tablet/Capsule

Proprietary name		Usual strength	
Generic name		Dose	
Storage instructions		Type of tablet	
		Clinical use	
Batch number	•••••	Manufacturer	
Date of manufacture	er	Date of expiry	

Time in minutes

Concentration of active ingredient / 100 ml

Report Sheet - Dissolution Time of Tablet/Capsule

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Date of manufacturer	Date of expiry	•••••
		. <u></u>

Time in minutes

Concentration of active ingredient / 100 ml

DURABILITY OF THE TABLETS

Another approach to determine the durability of tablets from the time of production to time of use is to evaluate its ability to withstand abrasion in packaging, handling and transportation.

The apparatus consists of transparent acrylic sheet drums (single or double) which rotate at a fixed speed (R.P.M.). The drum is equipped with a plastic blade which carries the tablets along with it up to a predetermined height while the drum is rotating and let them slide off. Thus without any hard impact the tablets rub against each other under the same pressure.

Friability test apparatus :

