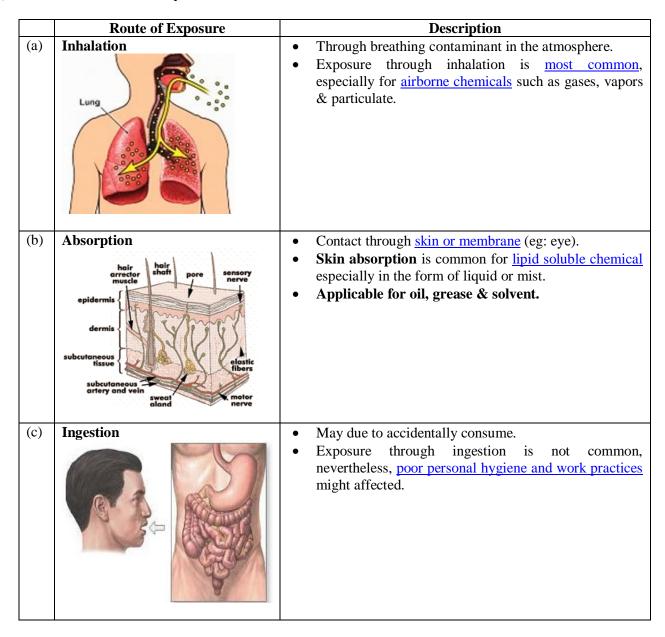
The topic for this week is "The ABCs of Chemical Exposure".

## Abbreviation:-

- 1) MSDS: Material Safety Data Sheet
  - Always refer to MSDS to clearly know the <u>characteristic</u> of the chemicals and <u>precautions @</u> preventive measures to be taken.

## 2) There are **3 routes of entry**:



3) Exposure of hazardous chemicals may cause acute @ chronic effects and local @ systemic effects.

	Effects	Descriptions	
(a)	Acute	Caused by <u>immediate @ short periods of exposure</u> after a <u>single exposure</u> .	
(b)	Chronic	• Caused by long term effects that resulted from repeated or prolonged exposure (continuing exposure day after day or week after week).  Figure 18. Chronic effect    Prolonged exposure (continuing exposure day after day or week after week).	
(c)	Local	Occurs at the <u>site of first contact</u> with the chemical. (eg: Skin burn when contact with strong acid due to corrosive action).	
(d)	Systemic	Occurs at a <u>site distant from the initial point of contact</u> and takes place after a chemical has been <u>absorbed into the body</u> .	

## 4) Target organs.

Hazardous chemicals caused <u>adverse health effects</u> at <u>certain target organ</u> which <u>affecting our functional system.</u>

Verified by,

Mr. Eddy Rosyadie / QA Validation Manager

Toxin	Target Organs
Neurotoxin	Central Nervous System
Hepatotoxin	Liver
Nephrotoxin	Kidney
Haematopoietic toxin	Blood Stream
Pulmonary toxin	Lungs
Reproductive toxin	Reproductive Organs
Dermatoxin	Skin, mucous membrane