

# VACCINES

## Live attenuated

### Bacterial

- BCG
- Oral typhoid

### Viral

- MMR
- Vaccinia
- Varicella
- Yellow fever
- Intranasal influenza
- Oral polio

\*\*injected polio or influenza vaccines are *inactivated*

Live vaccines: Smallpox variola

Recombinant vaccines: HBV

\*in red=mohadret dr hatem slide 33 in red

## Inactivated

### Whole cell

#### Viral

- Polio
- Rabies
- influenza (IM)
- Salk polio

#### Bacterial

- Pertussis
- typhoid

### Protein Based

#### Toxoid

- Diphtheria
- Tetanus

#### Subunit

- HBVsAg
- HPV
- Influenza
- Acellular pertussis

### Fractional

#### Polysaccharide

#### Pure

#### Conjugate

(encapsulated bac)

- H influenzae type b (Hib)
- Pneumococcal
- meningococcal

\*\*DTP-> whole

DTaP->Acellular p Ag

Both inactivated, not toxoid

DT are toxoids