

Vaccines seminar

✓ **HCW vaccines** : Hep B , influenza , COVID , MMR , tetanus , varicella

✓ **Elderly > 65** : Hep B , influenza , COVID , Pneumococcal , tetanus , varicella

✓ **Pneumococcal vaccine**

-No indication to be given for health care worker

-Given for immunocompromised patients : elderly , after splenectomy

2types :

1- Three pneumococcal conjugated vaccine(PCV13, PCV15 , PCV 20)

2- Pneumococcal polysaccharides vaccine (PPVS23)

✓ **Hep B vaccine**

Protect against : Hep B , Hep D and HCC

content :HbsAg

indications : HCW , travelers to endemic areas , all infants in 3 doses , people who lives with infected patient

frequency : 0 1 6

dose 1 usually within 24 hours of birth if the infant >2kg , dose 2 after 1 month , dose 3 after 6 month

non responders :

occurs in 5% of people who took the vaccine
people who don't develop surface antibodies after
receiving 2 doses of Hep B vaccine
(first dose , test the titer , titer < 10 , Booster dose
should be given , Test the titer ,Also titer still < 10)

✓ **HPV vaccine** : protect against cancer , not safe in
pregnancy

✓ **Risk of infection** after needle stick injury from a
positive patient : **0.3% HIV** , **3% HCV** , **30% HBV**

✓ **Influenza vaccine**

Given Annually , from September to may

Indications : elderly , **immunocompromised** , HCW ,
pregnancy and any person who wants to take it

2 types :

1-Inactivated vaccine : given by I.M injection

-This vaccine is safe in immunocompromised pt and
pregnancy

-Composed of 3 or 4 strains of influenza virus :
A(H1) , A (H3) , B (Yamagata) +- B (Victoria)

2-Live attenuated vaccine : given by nasal spray

✓ **MMR vaccine**

Live attenuated , 2 doses , Given to women who experienced congenital rubella syndrome

*This syndrome happened in 90-95% of women who are infected with rubella during pregnancy especially in the first trimester , and there is very high risk of abortion

-MMR vaccine is not safe in pregnancy , and After the vaccine , pregnancy is not allowed for 2 months

-MMR vaccine is **contraindicated** in immunocompromised patients

✓ **Varicella vaccine**

2 types : **Varivax** and **ProQuad**

As health care worker , if you get contact with patient who is infected by chickenpox virus , you should check the titer

✓ **BCG vaccine**

For TB , given to children (Not useful in adult)

Not 100% protective but prevent serious infection