

# ADULT IMMUNIZATION

Darab Singh, Prasan K Panda, Rashmi Mittal

## NEED FOR ADULT IMMUNIZATION

1. Vaccine Preventable Diseases and Herd Immunity
2. Antibody titers/ Immunity decreases over time
3. Travel to endemic areas
4. Elderly Population
5. Vaccination for Emerging Infections
6. New Strains and Vaccine Technology Advancements
7. People with Comorbidities
8. Healthcare Workers

## MANDATORY VACCINATION FOR HCWs

| VACCINE                                                        | DOSE/R OUTE     | SCHEDULE                       | REMARKS                                                                                                        |
|----------------------------------------------------------------|-----------------|--------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Hepatitis B</b>                                             | 1 ml; Deep i.m. | 0,1,6 months                   | All adults(19-59) + >65- All at risk (CLD;CKD; HIV; iv drug abuse etc.)<br>CKD- double dose at 0,1,12,6 months |
| <b>Tdap/Td</b>                                                 | 0.5 ml i.m.     | 1 dose then Td/Tdap 10 yearly  | All adults<br>1 dose Tdap during each pregnancy                                                                |
| <b>MMR</b>                                                     | 0.5 ml s.c.     | 1 dose<br>2 doses- 0, 4 wks    | if no evidence of immunity<br>HCW, HIV with CD4 >200<br>C/I in pregnancy, immunocompromised                    |
| <b>Varicella</b>                                               | 0.5 ml s.c.     | 1 dose<br>2 doses- 0,4-8 weeks | if no evidence of immunity<br>HCW<br>C/I in pregnancy, immunocompromised                                       |
| <b>COVID-19</b>                                                | 0.5 ml i.m.     | 2 doses- 0, 4 weeks            | Age >18 yrs                                                                                                    |
| <b>Influenza</b>                                               | 0.5 ml i.m.     | 1 dose annually                | Age> 18 yrs; LAIV C/I - in Age>65, Pregnancy, Immunocompromised                                                |
| <b>Herpes Zoster</b>                                           | 0.5 ml i.m.     | 2 doses 2-6 months apart       | All adults with >50 yrs age; All HIV pts                                                                       |
| Selective Vaccination for special groups- Kindly See next page |                 |                                |                                                                                                                |

HCW-Health care worker , CLD- Chronic liver disease , CKD-chronic kidney disease , LAIV- live attenuated influenza vaccine, C/I-contraindication

## ADULT VACCINATION FOR SPECIAL GROUPS

| CLD/CKD                                                                                                                                                                                                  | Heart/ Lung disease                                                                                                                                  | Hemoglobinopathies                                                                                                                                                                       | HIV                                                                                                                                                                                                                                                                          | Pregnancy                                                                                                                                                                                                                                                |
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| <ol style="list-style-type: none"> <li>Hepatitis B</li> <li>Tdap/Td</li> <li>MMR</li> <li>Varicella</li> <li>COVID-19</li> <li>Influenza</li> <li>Pneumococcal</li> <li>Hepatitis A( for CLD)</li> </ol> | <ol style="list-style-type: none"> <li>Tdap/Td</li> <li>COVID-19</li> <li>MMR</li> <li>Influenza</li> <li>Varicella</li> <li>Pneumococcal</li> </ol> | <ol style="list-style-type: none"> <li>Tdap/Td</li> <li>MMR</li> <li>Varicella</li> <li>COVID-19</li> <li>Influenza</li> <li>Pneumococcal</li> <li>Hib</li> <li>Meningococcal</li> </ol> | <ol style="list-style-type: none"> <li>Hepatitis B</li> <li>Tdap/Td</li> <li>MMR(C/I CD4&lt;200)</li> <li>Varicella(C/I CD4&lt;200)</li> <li>COVID-19</li> <li>Influenza</li> <li>Pneumococcal</li> <li>Hepatitis A</li> <li>Herpes Zoster</li> <li>Meningococcal</li> </ol> | <ol style="list-style-type: none"> <li>Hepatitis B</li> <li>Tdap(27-36 weeks)</li> <li>COVID-19</li> <li>Influenza</li> </ol> Contraindicated-<br><ol style="list-style-type: none"> <li>1. MMR</li> <li>Varicella</li> <li>LAIV</li> <li>HPV</li> </ol> |

LAIV- live attenuated influenza vaccine, C/I-contraindication, MMR-measles mumps and rubella ,PCV-pneumococcal conjugate vaccine , PPSV- Pneumococcal Polysaccharide vaccine, Tdap-Tetanus ,diphtheria ,acellular pertussis, Hib-H. influenza

| VACCINE                   | DOSE/ ROUTE                    | SCHEDULE                                           | TARGETED POPULATION                                                                               | REMARKS                                                             |
|---------------------------|--------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| HPV<br>Cervarix/ Gardasil | i.m.                           | 2/3 dose series                                    | Up to age 26 year- all adults;<br>Age 27-45 years- based on shared clinical decision              |                                                                     |
| Pneumococcal              | PCV- i.m.<br>PPSV-23 s.c./i.m. | PCV13 dose <sup>2</sup><br>PPSV-23 1year later     | All adults >65 years<br>All at risk in age group 19-64 years (CLD;CKD; HIV; i.v. drug abuse etc.) | PPSV23 booster at 5 yrs in high-risk individuals                    |
| Hepatitis A               | 1 ml i.m.                      | 2 doses 6-12 m apart                               | At risk ( CLD; HIV; iv drug abuse etc.)                                                           |                                                                     |
| Hib                       | 0.5 ml i.m.                    | 1 dose <sup>2</sup><br>3 dose series 4 weeks apart | Anatomical/functional Asplenia<br>Hematopoietic stem cell transplant                              | If elective splenectomy, 1 dose at least 14 days before splenectomy |
| Meningococcal             |                                | 2 doses 8 weeks apart                              |                                                                                                   |                                                                     |