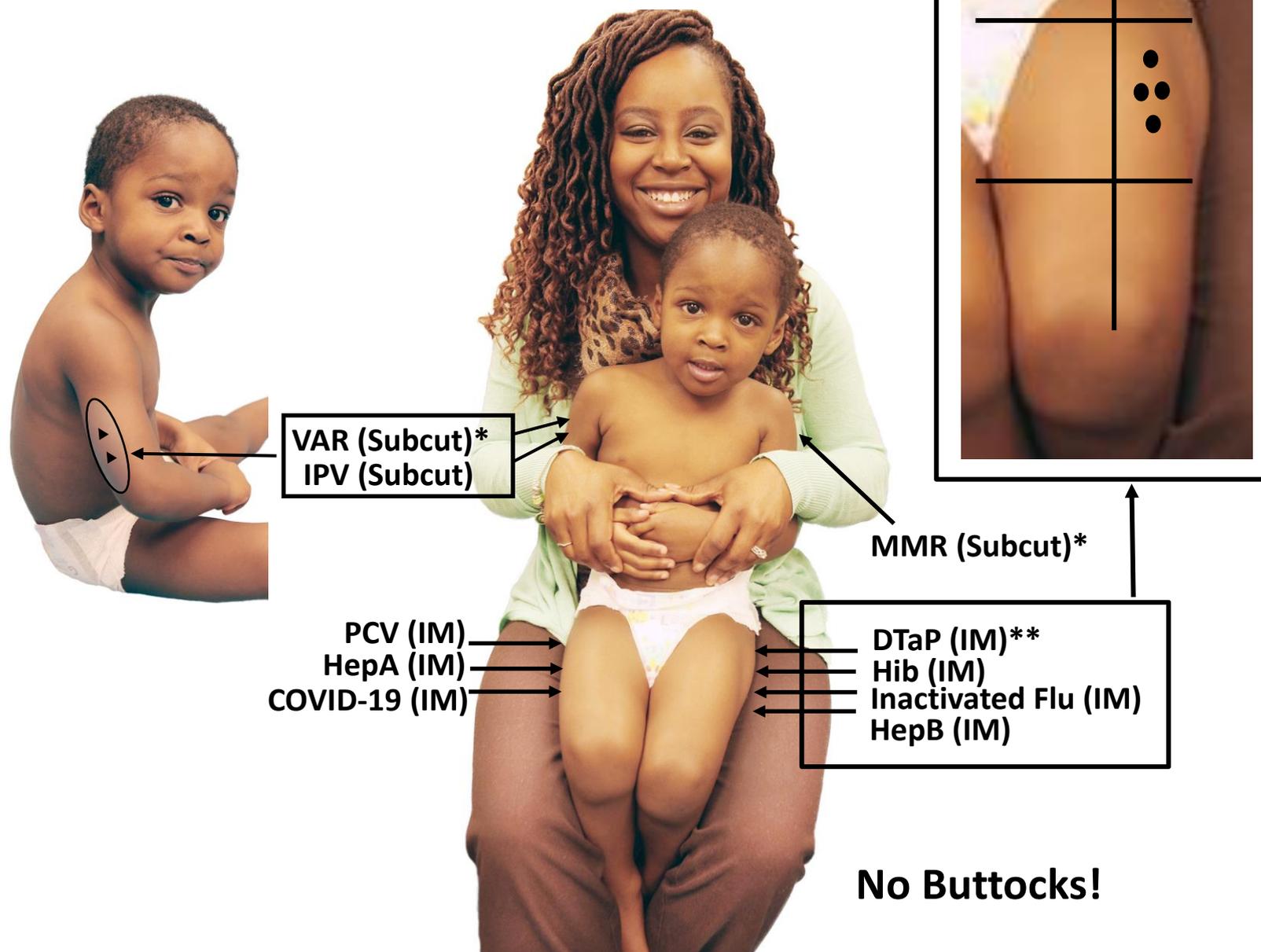


# Giving All the Doses 12 Months and Older

- **Intramuscular (IM)** injections are given at a 90° angle in the anterolateral thigh (preferred site for 12 mos.-2 yrs.) using a 1-1.25-inch needle (see ● to the right for placement in anterolateral thigh)
  - Separate IM injection sites by a minimum of 1-inch
  - Deltoid is preferred IM site for 3 yrs. and older
    - Anterolateral thigh is an alternative site if deltoid cannot be used
- **Subcutaneous (Subcut)** injections are given at a 45° angle in the upper outer triceps area or thigh using 5/8-inch needle (see ▲ to the right for placement in triceps area)
- **Intranasal (NAS)** Live Attenuated Influenza Vaccine (LAIV) is licensed only for healthy non-pregnant people aged 2 through 49 years and is administered intranasally (not shown in the example)
- Using combination vaccines decreases the number of injections
  - IPV must be given IM when given as a combination vaccine (e.g., DTaP-IPV/Hib, DTaP-IPV-HepB, DTaP-IPV, DTaP-IPV-Hib-HepB)
- Give vaccines likely to cause greater local reaction into separate limbs (e.g., DTaP, PCV)
- Give the most painful injections last (e.g., MMR, PCV)
- \*MMR-II and Varicella (Merck) are approved for subcut and IM administration. Priorix (GSK MMR) is approved only for subcut administration
- \*\*Diphtheria, Tetanus and Pertussis (DTaP, Td, Tdap)-DTaP is used for persons 6 weeks through 6 years. Td/Tdap are both used for persons 7 years and older



**No Buttocks!**

Additional vaccines may be needed. This handout only displays routine vaccines. For additional vaccine administration information see: "Administering Vaccines: Dose, Route, Site, and Needle Size" at [www.immunize.org/catg.d/p3085.pdf](http://www.immunize.org/catg.d/p3085.pdf)