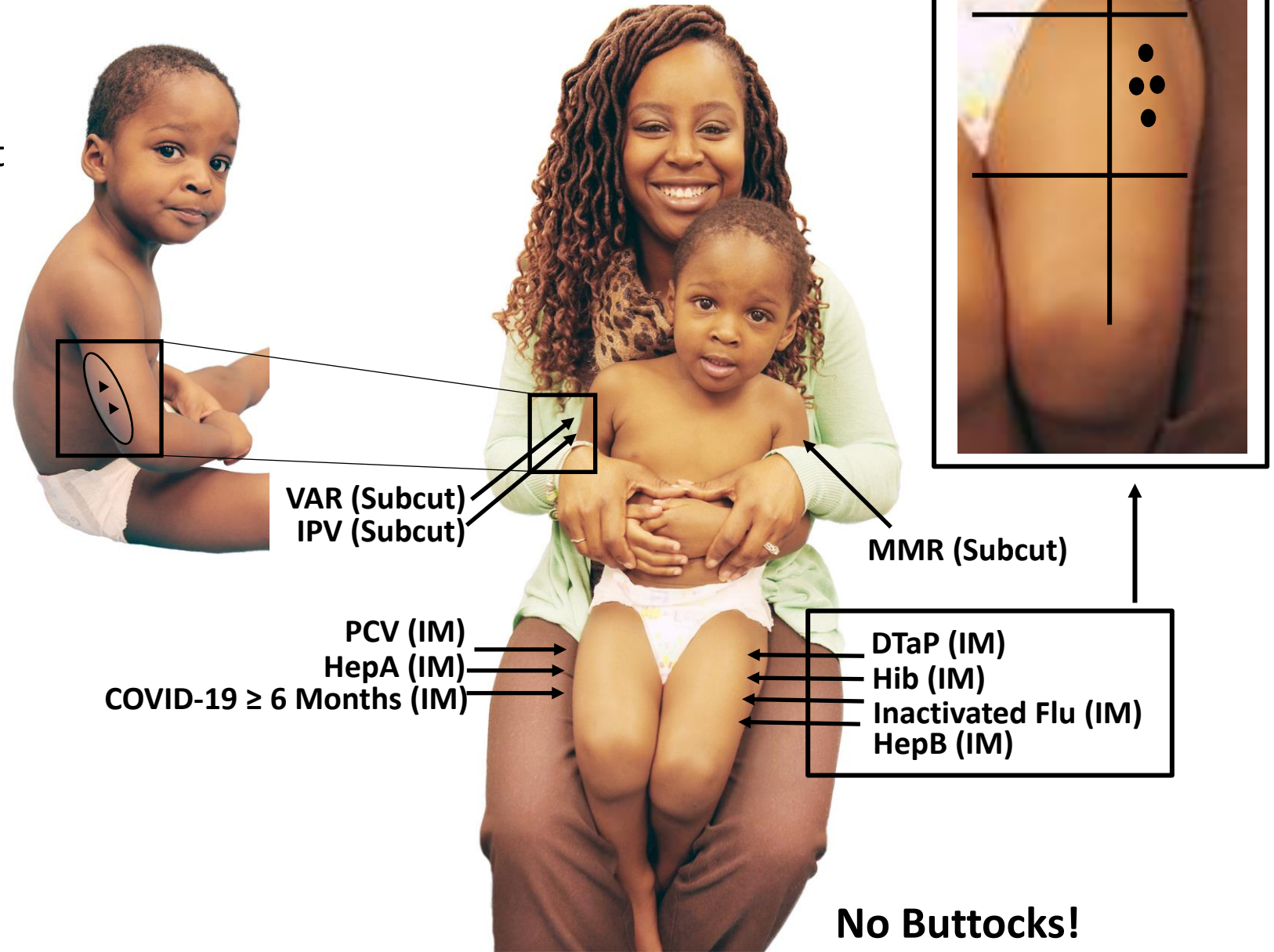


Giving All the Doses 12 Months and Older

- **Intramuscular (IM)** injections are given at a 90° angle in the anterolateral thigh (preferred site for 12 mos.-2 yrs.) using a 1" needle (see ● to the right for placement)
 - Separate IM injection sites by a minimum of 1"
 - 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" needle (see ▲ to the right for placement in triceps area)
- 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)



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