Smallpox Vaccination

Vaccination Method & Reactions

About the Vaccine

The vaccinia (smallpox) vaccine is a live virus that multiplies in the superficial layers of the skin. It does not contain variola virus, the virus that causes smallpox. The vaccinia (smallpox) vaccine is a live virus that multiplies in the superficial layers of the skin. It does not contain variola virus, the virus that causes smallpox. A smallpox outbreak is often referred to as a "takeout." Two vaccine types will be used in the coming years:

1. Calf-lymph vaccine: Dryvax (Wyeth and Aventis)
2. Vaccinia immune globulin (VIG)

Normal Vaccine Administration

Step-by-Step Instructions

1. No alcohol: vaccination will be inhibited. No skin
2. Make 15 perpendicular insertions within a 5-mm
3. Cover site with sterile gauze (loosely taped).
4. Absorb excess vaccine with sterile gauze and discard
5. Make 15 perpendicular insertions within a 5-mm

Recommended vaccination method:

Multiple poxvirus vaccines on the same area of the volar forearm. In children, individual vaccination sites may be placed up to 2 cm apart. The vaccinia (smallpox) vaccine is a live virus that multiplies in the superficial layers of the skin. It does not contain variola virus, the virus that causes smallpox. A smallpox outbreak is often referred to as a "takeout." Two vaccine types will be used in the coming years:

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Normal Reaction Timeline

Day 1: Intradermal inoculation

Day 2: Pustule, crusts over (12+ days after vaccination)

Day 3: Vesicle with surrounding erythema

Day 4: Clear-cut pustule

Day 5: Vesicle with surrounding erythema

Day 6: Vesicle with depressed center

Day 7: Ulcer 6-8 days after vaccination.

Day 8: Lesion that may be a scab or

Day 10: Satellite Lesions

Day 14: Lymphangitis

Day 21: Edema

Day 28: Regional lymphadenopathy

Day 35: Lymphangitis from the site to regional nodes

Major reaction

Equivocal reaction

Any other reaction or response;

Contraindicated

No reaction (revaccination is

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2. Vac...
ADVERSE REACTIONS

Severity:

cases life-threatening complications can develop.

drowsiness and fever as the first symptoms. In severe

10-14 days after vaccination with headache, vomiting, 

Post-Vaccinial Encephalitis is a rare complication of

clinically and to examine the administration site for a

Occasionally, an individual may ingest vaccine accidentally

Accidental Administration

If there are only one or a few lesions, no specific treat-

Bacterial Infections

susceptible to more extensive inoculations because of

Accidental Implantation

Bacterial Infections

full body (most often on the trunk and abdomen,

Generalized Vaccinia

Rare

severity:

Benign

with extensive lesions

VIG: Indicated with extensive lesions

VIG: Not Recommended for mild instances

VIG: Indicated with extensive lesions

VIG: Indicated (if severe or recurrent)

VIG: Rare

severity:

Mild

VIG: Rare

severity:

Rare

Most Common (exception: SJR - rare)

VIG: Rare

severity:

Severe - If untreated

VIG: Indicated (if severe or recurrent)

VIG: Rare

severity:

Severe - If untreated

VIG: Rare

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