.

Central Zone

Patient management is summarized in *Table 1* on page 2; important supplementary information follows below:

Vaccine Abbreviations:

- **dTap** (same as Tdap): Reduced diphtheria, regular tetanus toxoid and reduced acellular pertussis antigens used to generate active immunity.
- **TIG** (tetanus immune globulin): A blood product containing antibodies providing temporary passive immunity against tetanus until active immunity can be generated with tetanus toxoid-containing vaccines such as dTap.

Tetanus Risk: 10,337 cases reported to World Health Organization in 2015. Average of three (3) cases per year in Canada with six (6) deaths since 2000.

Determining Immunization History with Tetanus Toxoid-Containing Vaccine:

Consult Net Care (doses given before electronic records were kept and in different zones, provinces, or countries may not appear). Tetanus vaccine was introduced in Alberta in 1947.

- Adults born in Canada after 1947 are generally assumed to have received three (3) or more doses unless they have deliberately avoided immunization.
- In Alberta, dTap provision to *some* adults began in 2012.

Providing TIG:

TIG does not require release by the Medical Officer of Health or designate. For questions concerning indications or availability of TIG, phone:

| 8:30 am to 4:00 pm weekdays | 1-855-444-2324 | Provincial Communicable Disease Control (CDC) Immunization Team |
|---|----------------|---|
| all other days and times 1-403-356-6430 | | Central Zone Medical Officer of Health (MOH) On-Call |

TIG Locations:

| Acute Care Hospital* | Refrigerator Location |
|---|------------------------------|
| Red Deer (1 dose in both Lean Track and Minor Treatment), Camrose, Vermilion, Wainwright | Emergency Department |
| Rocky Mountain House and Provost | Laboratory |
| Drayton Valley, Drumheller, Olds, Stettler, Vegreville, Wetaskiwin | Laboratory Blood Bank |

* Acute Care sites without stocked TIG may enquire about availability at a community health centre (see Providing TIG above).

Administration of Tetanus Toxoid-Containing Vaccines and TIG:

Both products are given intramuscularly at separate sites.

TIG Product Replacement:

• Connect Care sites, follow the Central Zone Connect Care product replacement instructions that are included in the TIG kit.





Table 1: TIG and Tetanus Toxoid-Containing Vaccine¹ Decision

A. Tetanus-Prone Wound e.g., crush, puncture, avulsion, burn, soil/feces/saliva contamination, necrosis, sepsis.

| Patient Age | Immunization History with Tetanus Toxoid- Containing Vaccine | TIG Decision | Tetanus Toxoid-Containing Vaccine Decision |
|-------------------------|--|--------------------|---|
| 18 years. and older | Uncertain or less than 3 doses | Yes, give in ED | Give dose of dTap in emergency department (ED). Advise contact with local Public /First Nations Health on next business-day if additional dose(s) required to complete three (3) dose tetanus toxoid vaccine primary series. |
| | 3 or more doses | No ⁴ | If 5 years or more since last dose, ⁴ give dTap in ED. |
| 7 to 17 years. | Uncertain or less than 3 doses | Yes, give in ED | Give dTap in ED. Advise contact with local Public /First Nations Health on next business-day. ² |
| | 3 or more doses | No ⁴ | If 5 years or more since the last dose, ⁴ give dTap in ED. Advise contact with local Public /First Nations Health on next business-day. ² |
| 6 months to 6 years. | Uncertain or less than 3 doses | Yes, give in ED | Advise contact with local Public /First Nations Health on next business-day. ² |
| | 3 or more doses | No ⁴ | If 5 years or more since the last dose, ⁴ give dTap in ED. Advise contact with local Public /First Nations Health on next business day. ² |
| less than 6 months. | 0, 1 or 2 doses | 5, 4 | If infant is not up-to-date for age, ^{3,4} advise contact with local Public / First Nations Health on next business day. ² |

B. Clean, Minor Wound

| Patient Age | Immunization History with Tetanus Toxoid- Containing Vaccine | TIG Decision | Tetanus Toxoid-Containing Vaccine Decision |
|------------------------|--|-----------------|--|
| 18 years. and older | Uncertain, or less than 3 doses | No | Give dTap in ED. Advise contact with local Public /First Nations Health on next business-day if additional dose(s) required to complete 3 dose tetanus toxoid vaccine primary series. |
| | 3 or more doses | No | If 10 years or more since last dose, give dTap in ED. |
| 7 to 17 years. | Uncertain or less than 3 doses | No | Give dTap in ED. Advise contact with local Public / First Nations Health on next business-day. ² |
| | 3 or more doses | No | If 10 years or more years since last dose, give dTap in ED. Advise contact with local Public /First Nations Health on next business-day. ² |
| less than 7 years. | Not up-to-date for age ³ | No | Advise contact with local Public /First Nations Health on the next business-day. ² |

¹Effective January 1, 2021 dTap replaced Td in all routine adult immunizations.

²Public /First Nations Health Centre will review the need for additional tetanus toxoid and other vaccines.

³The routine tetanus toxoid vaccine schedule is 6 doses, given at 2, 4, 6, 18 mo.; 4-6 yrs.; and 14-16 yrs. The 5th dose is not required **if** the 4th dose was given after the 4th birthday.

⁴For those known to have an immune compromising condition, especially a with humoral immune deficiency (e.g. HIV, agammaglobulinemia, or hypogammaglobulinemia): **TIG**, as well as tetanus toxoid-containing vaccine (regardless of the number of doses previously received or time since a previous dose), should both be given.

⁵Use mother's history of immunization at the time of delivery. If mother received less than 3 doses or an unknown number of doses of tetanus toxoid-containing vaccines, give TIG in emergency department.

Note: Acute care sites without stocked TIG may enquire about availability at a community health centre (see reverse Providing TIG).