

Patient management is summarized in Table 1 (see reverse). Important supplementary information is listed 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 3 cases/year in Canada with 6 deaths since 2000.

**Determining immunization history with tetanus toxoid-containing vaccine:** Consult Net Care (note that 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 3 or more doses unless they have deliberately avoided immunization. In Alberta, dTap provision to *some* adults began in 2012.

**Releasing/Obtaining TIG:** As of January 1, 2021 TIG will no longer require release by the Medical Officer of Health (MOH)/designate. The tetanus immune globulin TIG will be replaced in emergency departments following the “record keeping” process as defined below.

The following phone numbers are available if questions arise concerning indications, administration, or availability of TIG.

8:30 am to 4:00 pm weekdays	1.855.444.2324	Provincial Communicable Disease Control (CDC) - Immunization
All other times/days	1.403.356.6430	Central Zone Medical Officer of Health (CZ MOH) On-Call

## TIG LOCATIONS:

**Lab - Blood Bank** in the following acute care hospitals: Drumheller; Stettler; Wetaskiwin; Drayton Valley; Olds; Rocky Mountain House; Vermilion; Vegreville; and Camrose.

**ED fridges** in Wainwright and Red Deer acute care hospitals.

**Recovery Room fridge** in Provost Hospital.

**Administration of tetanus toxoid-containing vaccines and TIG:** Both products are given intramuscularly at separate sites.

**Record-keeping:** If TIG is administered, please complete and fax the form *Central Zone Immunization Administration Record for TIG/dTap* which accompanies the TIG. If dTap is administered without TIG, complete the *Central Zone Vaccine Tracking Record* (no. 18867).

**Vaccine Information and After Care sheets** for patients accompany the vaccines.

## Central Zone Guide to Wound Tetanus Prophylaxis in Emergency Departments (EDs)

**Table 1: Decision-making for TIG and Tetanus Toxoid-Containing Vaccine<sup>1</sup>** *(see reverse for important supplementary information)*

### **A. Tetanus- Prone Wound** e.g.: *crush; puncture; avulsion; burn; soil/feces/saliva contamination; necrosis; sepsis*

<b>Patient Age</b>	<b>Immunization History with Tetanus Toxoid-Containing Vaccine</b>	<b>TIG Decision</b>	<b>Tetanus Toxoid-Containing Vaccine Decision</b>
18 yrs. & older	Uncertain or less than 3 doses	<b>Yes, give in ED</b>	Give dose of 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	<b>No<sup>4</sup></b>	If 5 years or more since last dose, <sup>4</sup> give dTap in ED.
7-17 yrs.	Uncertain or less than 3 doses	<b>Yes, give in ED</b>	Give dTap in ED. Advise contact with local Public /First Nations Health on next business-day. <sup>2</sup>
	3 or more doses	<b>No<sup>4</sup></b>	If 5 years or more since the last dose, <sup>4</sup> give dTap in ED. Advise contact with local Public /First Nations Health on next business-day. <sup>2</sup>
6mo. – 6yrs.	Uncertain or less than 3 doses	<b>Yes, give in ED</b>	Advise contact with local Public /First Nations Health on next business-day. <sup>2</sup>
	3 or more doses	<b>No<sup>4</sup></b>	If 5 years or more since the last dose, <sup>4</sup> give dTap in ED. Advise contact with local Public /First Nations Health on next business day. <sup>2</sup>
Less than 6 mo.	0, 1 or 2 doses	<b>5, 4</b>	If infant is not up-to-date for age, <sup>3,4</sup> advise contact with local Public / First Nations Health on next business day. <sup>2</sup>

### **B. Clean, Minor Wound**

<b>Patient Age</b>	<b>Immunization History with Tetanus Toxoid-Containing Vaccine</b>	<b>TIG Decision</b>	<b>Tetanus Toxoid-Containing Vaccine Decision</b>
18 yrs. & older	Uncertain, or less than 3 doses	<b>No</b>	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	<b>No</b>	If 10 years or more since last dose, give dTap in ED.
7-17 yrs.	Uncertain or less than 3 doses	<b>No</b>	Give dTap in ED. Advise contact with local Public / First Nations Health on next business-day. <sup>2</sup>
	3 or more doses	<b>No</b>	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. <sup>2</sup>
Less than 7 yrs.	Not up-to-date for age <sup>3</sup>	<b>No</b>	Advise contact with local Public /First Nations Health on the next business-day. <sup>2</sup>

<sup>1</sup>Effective January 1, 2021 dTap replaced Td in all routine adult immunizations.

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

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

<sup>4</sup>For 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.

<sup>5</sup>Use mother's history of immunization at the time of delivery. If mother received less than 3 doses or an unknown no. of doses of tetanus toxoid-containing vaccines, give TIG in ED.