

# Data for: Prevalence of protective tetanus antibodies and immunological response following tetanus toxoid vaccination among men seeking medical circumcision services in Uganda

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## Citering

Makumbi, F. (2019) Data for: Prevalence of protective tetanus antibodies and immunological response following tetanus toxoid vaccination among men seeking medical circumcision services in Uganda (Version 1.0) [Dataset]. Uganda Ministry of Health, AIDS Control Program. Tillgänglig via: <https://doi.org/10.5878/2vmc-5511>

## Skapare/primärforskare

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## Forskningshuvudman

[Uganda Ministry of Health, AIDS Control Program](#)

## Beskrivning

Introduction: Tetanus infection associated with men who had male circumcision has been reported in East Africa, suggesting a need for tetanus toxoid-containing vaccines (TTCV).

Objective: To determine the prevalence of tetanus toxoid antibodies following vaccination among men seeking circumcision.

Methods: We enrolled 620 consenting men who completed a questionnaire and received TTCV at enrollment (day 0) prior to circumcision on day 28. Blood samples were obtained at day 0 from all enrollees and on days 14, 28 and 42 from a random sample of 237 participants. Tetanus toxoid (TT) IgG antibody levels were assayed using EUROIMMUN. Analyses included prevalence of TT antibodies at enrollment and used a mixed effects model to determine the immunological response.

Results: Mean age was 21.4 years, 65.2% had knowledge of tetanus, 56.6% knew how tetanus was contracted, 22.8% reported ever receipt of TTCV, and 16.8% had current/recently healed wounds. Insufficient tetanus immunity was 57.1% at enrollment, 7.2% at day 14, 3.8% at day 28, and 0% at day 42. Antibody concentration was 0.44IU/ml (CI 0.35-0.53) on day 0, 3.86IU/ml (CI 3.60-4.11) on day 14, 4.05IU/ml (CI 3.81-4.29) on day 28, and 4.48IU/ml (CI 4.28-4.68) on day 42. TT antibodies increased by 0.24IU/ml (CI 0.23, 0.26) between days 0 and 14 and by 0.023IU/ml (CI 0.015, 0.031) between days 14 and 42 days. Immunological response was poorer in HIV-infected clients and men aged 35+ years.

Conclusion: Insufficient immunity was common prior to TTCV, and a protective immunological response was achieved by day 14. Circumcision may safely be provided 14 days after vaccination in HIV-uninfected men aged less than 35 years.

## Syfte:

To determine the prevalence of tetanus toxoid antibodies following vaccination among men seeking circumcision.

Observations: 1,217 variables: 14 size: 116,832 Social demographics, TT antibody concentration,

interpretation of concentration, participant identification variable

## **Språk**

[Engelska](#)

## **Variabler**

14

### **Antal individer/objekt**

620

### **Svarsfrekvens/deltagarfrekvens**

620/769 (80.6%)

### **Dataformat / datastruktur**

[Numeriska](#)

### **Datainsamling 1**

- Insamlingsmetod: Intervju
- Tidsperiod(er) för datainsamling: 2016-01-10 – 2016-11-02
- Datakälla: Befolkningsgrupp

### **Datainsamling 2**

- Insamlingsmetod: Mätningar och tester
- Tidsperiod(er) för datainsamling: 2016-01-10 – 2016-11-02
- Datakälla: Befolkningsgrupp

### **Geografisk utbredning**

Geografisk plats: [Uganda](#)

Geografisk beskrivning: 13 sites in the 5 geographical regions (North, Western, Eastern Central and Kampala

### **Etikprövning**

Uganda National Council of Science and Technology - dnr HR 1959

### **Forskningsområde**

[Medicin och hälsovetenskap](#) (Standard för svensk indelning av forskningsämnen 2011)

[Hälsa](#) (CESSDA Topic Classification)

### **Nyckelord**

[Stelkrampsvaccin](#)

### **Publikationer**

Makumbi F, Byabagambi J, Muwanika R, Kigozi G, Gray R, et al. (2018) Prevalence of protective tetanus antibodies and immunological response following tetanus toxoid vaccination among men seeking medical circumcision services in Uganda. PLOS ONE 13(12): e0209167.

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Om du publicerat något baserat på det här datamaterialet, [meddela gärna SND](#) en referens till din(a) publikation(er). Är du ansvarig för katalogposten kan du själv uppdatera metadata/databeskrivningen via DORIS.

## Tillgänglighetsnivå

Åtkomst till data via SND

Tillgång till data är begränsad

## Användning av data

[Att tänka på vid användning av data som delas via SND](#)

## Versioner

Version 1.0. 2019-01-14

## Ladda ner metadata

[DataCite](#)

[DDI 2.5](#)

[DDI 3.3](#)

[DCAT-AP-SE 2.0](#)

[JSON-LD](#)

[PDF](#)

[Citering \(CLS\)](#)

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