

[要約] 沖縄県における 1977-2015 年間のハブ類咬症の症状  
ならびに治療の様式 2—ハブ咬症を対象におもな受傷  
部位別にみた主要医療機関における時代別の頻度

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[Summary] Symptoms and Treatments at the Bites of Viperid Snakes in Okinawa  
Prefecture from 1977 to 2015 (2) — Frequencies of the Bites of  
*Protobothrops flavoviridis* at the Major Body Parts in  
Each Period at the Main Medical Institutions

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Key words: ハブ咬症, 沖縄県, 症状, 治療, 主要医療機関, 手指・足・手への受傷, 時代変化, *Protobothrops flavoviridis*, Viperid, Bite, Okinawa Prefecture, Symptom, Treatment, Body part, Medical institution

[要約]

沖縄県には医療機関が記録したハブ類咬症者の受傷や治療に関する大量の情報が存在する。それらのうち、体系的な扱いがこれまで無かった症状と治療の資料を中心に集計を行い、傾向の把握を試みる。

本報の対象は、沖縄県内で 1977-2015 年の 39 年間に発生したハブ *Protobothrops flavoviridis* 咬症の各例について記録された調査票をもとに入力された、2655 件の資料である。上記の 39 年間で 1977-1987 年, 1988-2000 年, 2001-2015 年の 3 時代に区分し、3 時代の間で受診頻度が高かった主要 8 医療機関 (群, 以下略) と全機関, ならびにおもな受傷部位である手指・足・手と全部位を集計の対象とし、件数を表に示した。受傷部位別に、3 時代の間, 他の部位との間, 他の機関との間で件数の比較を行った。各部位ごとのこれらの検定結果を表にまとめるとともに、複数の同様の傾向が認められた場合を結果に記述した。以下は主要 3 部位ならびに全部位への受傷の共通点を記す。

3 時代の間では、応急処置の切開と吸引, 症状の疼痛, 抗毒素の注射のうち使用量が 30 ml 以上と注射まで 1 時間より長く経過した頻度で増加の, 処置の緊縛, 抗毒素の注射有りの頻度で減少の傾向があった。

他の部位との間の頻度の比較では、処置の吸引では手指と手が高頻度で足が低頻度, 切開では足が高頻度で手が低頻度, 症状の疼痛では足が高頻度で手指が低頻度, 牙痕数が 2 以上では足が高頻度で手指が低頻度, 注射ま

で 1 時間より長く経過では手で低頻度, 治療期間 7 日以上では足が高頻度で手指が低頻度, 入院有りでは手指が低頻度, 機能障害有りでは手指と手が高頻度, リハビリ有りでは手指が低頻度であった。

他の医療機関との間の頻度の比較で高頻度であったのは、抗毒素の注射有りの M72 (医療機関の略号, 以下も), 使用量 30 ml 以上での M25, 静注以外の頻度での M41, M42, 注射まで 1 時間より長く経過での M15, 治療期間 7 日以上での M38, 入院有りでの M72 であった。逆に低頻度の機関は、抗毒素注射有りでの M15, M25, M38, 入院有りでの M42 であった。

[Summary]

In Okinawa many informations on the bites by viperid snakes were piled up. We attempt to sum up and analyze these records mainly on symptoms and treatments of the bite cases.

The materials of the present study are 2655 cases of Habu (*Protobothrops flavoviridis*) bites in Okinawa Prefecture between 1977 and 2015. The 39 yr was divided to 1977-1987, 1988-2000 and 2001-2015, and 8 major medical institutions and the body parts with high risks, fingers, feet and hands were selected as tabulation units. Three kinds of comparisons on the numbers of cases were done, among the 3 periods, between the other body parts and between the other medical institutions. The followings are the results common in the 3 and all body parts (see also Tables

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and Figures with English explanations).

Among 3 periods the frequencies increased in sucking and dissection as the first-aid treatments, pain symptom, much (30 ml  $\leq$ ) amount injection of antivenom and time intervals of more than 1 hr from the bite to antivenom injection, while decreased in bondage as the first-aid treatments and antivenom injections.

Between the other body parts the frequencies of sucking were high in fingers and hands, and low in feet, those of dissection were high in feet and low in hands, those of pain were high in feet and low in fingers. The frequencies of many (2  $\leq$ ) numbers of fang marks were high in feet and low in fingers. The frequencies of time intervals of more than 1 hr from the bite to antivenom injection were low in hands,

those of the long (7 days  $\leq$ ) periods with medical treatments were high in feet and low in fingers, those of hospitalization were low in fingers, those of serious symptoms were high in fingers and hands and those of rehabilitation treatments were low in fingers.

Between the other medical institutions higher frequencies were detected on antivenom injections in M72 (abbreviation of institution name, similar in the followings), non-intravenous antivenom injection in M41 and M42, time intervals of more than 1 hr from the bite to antivenom injection in M15, long (7 days  $\leq$ ) periods with medical treatments in M38 and hospitalization in M72, while lower ones were detected on antivenom injection in M15, M25 and M38 and hospitalization in M72.