



SNAKEBITE & SNAKE IDENTIFICATION VIA MOBILE DEVICES

MEDICAL FIELD, OR MEDICAL METHOD

Emergency care

TYPE

Decision support Autonomous decision making

CATEGORY

Prevention Detection Diagnosis Treatment
 Other

DESCRIPTION

This is a mobile application that will identify snakes from a smartphone photo and identify the appropriate antivenom required.

AIM / PURPOSE

Around 5 million snakebites occur globally each year, causing 125,000 deaths and disability/disfigurement in up to 400,000 more. Deaths from snakebite deaths are preventable by using correct antivenoms; however, these are often expensive, scarce and can have side effects.

Antivenom choice is critical and depends first on correctly identifying the biting snake. However, healthcare providers are not snake experts and can often struggle to identify the snake carcass brought by victims/ bystanders/ relatives, or to properly interpret their description of the biting snake.

OUTPUT / RESULTS

In research - still collecting data.

AI METHODOLOGY (OPTIONAL)

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INPUT / SIZE OF THE DATA

Over 350,000 images from a variety of sources.

REFERENCE DOCUMENTS / LINKS / PUBLICATIONS

WHO-ITU "Focus Group on Artificial Intelligence for Health"
<https://www.itu.int/en/ITU-T/focusgroups/ai4h/Pages/tg.aspx>

"Snakebite and snake identification (TG-Snake)"
<https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-G-016.docx?d=w9f502318f0b3479487906e0081cb53f7>

SOURCE

WHO-ITU FG-AI4H

Research undertaken by Institute of Global Health University of Geneva, Switzerland