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”
“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