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ASTMH is an international society committed to equity and global impact through the treatment and prevention of tropical infectious diseases. Our diverse membership comes from more than 115 countries... we are committed to the open exchange of ideas, freedom of thought and expression, and productive scientific debate... open and diverse environment that is built on dignity and mutual respect for all. There is no discrimination based on personal attributes including but not limited to ethnicity, color, national origin, age, religion, socioeconomic status, disability, sexual orientation, gender, and gender identity or expression.

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monotherapies gained market share following the subsidy reduction. The public health impact depends on the uncertain quality of ACTs that are not WHO-quality-assured.

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**SPIDER ENVENOMATIONS THERAPEUTICS AND ANTIVENOM ACCESSIBILITY: A SYSTEMATIC REVIEW**

Christian Lecce, Avinash N. Mukkala, Aisha Khatib, Michael A. Klowak, Priyanka Challa, Eric Shao, Jason Kwan, Tianna Chong-Kit, Jamie Sookhoo, Emma Hagopian, Dylan Kain, Mofe Adegosun, Andrea K. Boggild

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Spiders are a group of arthropods in the order Araneae and class Arachnida which have eight legs and fangs. Modern advancements in transportation allow increased human travel to areas which are endemic to spiders, increasing the possibility of envenomation. Physicians could select the optimal envenomation treatment using a clinical resource that compares efficacy statistics of antivenom versus other therapeutics. Our goal is to compile existing prevention and treatment data in the literature in order to synthesize this clinical resource. PubMed (NCBI), MEDLINE (OVID), EMBASE (OVID), Cochrane Database of Systematic Reviews (Cochrane) and TOXLINE (TOXNET) were searched from inception to June 2018 using combinations of the search terms “spider,” and “envenomation”. Iterative inclusion and exclusion of search terms was employed to maximize extraction. The GRADE approach will be used to assess quality of studies reporting therapeutic interventions. Evidence will be summarized using descriptive measures for each intervention type, as well as a qualitative synthesis. Meta-analysis will be planned if sufficient efficacy measures exist, 961 MEDLINE articles, 1053 PubMed, 1486 EMBASE, 0 CIDR and 149 TOXLINE records were retrieved for title and abstract screening; after a multi-step de-duplication pipeline, 1928 remained. Following abstract screening, 282 full-text records were eligible for inclusion. Upon initial review of these records, Latroductus hasseltii, Latroductus maculans, Loxosceles reclusa, and Phoneutria nigriventer were the most medically relevant. Data will be grouped and summarized by prevention, therapeutic strategies, geographic location and species. The recommended mode of treatment and management will be provided on an evidence-based, per-species basis. Increased transcontinental movement of people and tropical produce has facilitated importation of arachnids to non-endemic regions where clinicians lack familiarity with envenomation syndromes and appropriate therapeutics. Synthesizing the current evidence around therapeutic strategies for scorpion envenomations can inform the development of appropriate treatment and prevention protocols.

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**GEOGRAPHIC DISTRIBUTION UPDATE OF ARGENTINIAN TRIATOMINE SPECIES AS VECTORS OF CHAGAS DISEASE FRAMED IN A CITIZEN SCIENCE PROJECT**

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5Wallacea Shortfall phenomenon indicates that there is very little knowledge of the geographic distribution for the vast majority of the species described today, especially for invertebrates. In the case of insect vectors species and associated vector-borne pathogens, there are current initiatives that compile occurrence data, providing geographic information that enables policymakers to make evidence-based decisions. Other vector species are often sparsely recorded and there are few globally comprehensive sets of primary data compiled. Such is the case of triatomine species (Reduviidae: Triatominae), vector of Trypanosoma cruzi - Chagas disease etiological agent. Currently, there are at least 150 species described worldwide for the Triatominae subfamily, 137 species distributed in the Americas, and 17 species cited for Argentina. Although all species are considered potential vectors, around 70 species have been found naturally infected with this parasite. Beyond the Atlas of the Triatominae published by Carcavallo et al. (1998), no work carried out a full integration of the existing geographic information of Argentinian triatomine species, as some successful efforts completed in other Latin American countries. Recently, an updated and integrated occurrence database of 135 American triatomine species called ‘DataTri’ was published. Additionally, for the last 15 years, the National Vector Reference Center of Argentina (CeReVe) has been compiling occurrence data during their own fieldwork, which has remained unpublished. Finally, a citizen science project called ‘GeoVIn’ was developed to gather occurrence data of Argentinian triatomine species through citizen participation using a mobile app. Here we report a multi-source database of distributional records for all Argentinian triatomine species: a total of 9593 occurrence data were collected between 1918-2019. We hope that this study helps and encourage colleagues and citizen to keep this information updated that can be used as basic information by public health agencies to guide surveillance actions and control of Chagas disease.

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**A SYSTEMATIC REVIEW OF SCORPION ENVENOMATION THERAPEUTICS AND ANTIVENOM ACCESSIBILITY**

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Scorpions (Scorpionidae) are eight-legged arthropods of the class Arachnida. With increased human migration and transcontinental shipment of produce from the tropics, the incidence of scorpion envenomations may increase in non-endemic areas. We aim to synthesize existing evidence around prevention and treatment of scorpion envenomations into a clinical resource, including provision of information on access to, and indications for, antivenom usage. PubMed (NCBI), MEDLINE (OVID), EMBASE (OVID), Cochrane Database of Systematic Reviews (Cochrane) and TOXLINE (TOXNET) were searched from inception to June 2018 using combinations of the search terms “scorpion” and “envenomation”. Iterative inclusion and exclusion of search terms was employed to maximize article extraction.