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Title: To study the efficacy and adverse reactions of using polyvalent snake antivenom in all kinds of snakebites in Oman.

Background: Nine of the 22 terrestrial snakes of Oman, and all of the 9 species of sea-snakes, are venomous. Snakebites cases are 6.8% of total cases of acute poisoning cases presented to 45 local health centers, secondary and tertiary hospitals in Oman according to statistics done on year 2000. In most cases of serious envenomation from bites by terrestrial snakes, vipers have been incriminated, especially the saw-scaled or carpet vipers and, less frequently, Gasperetti's horned viper. Only in Dhofar are found the non-aggressive Arabian cobra (venom is neurotoxic) and the indolent Puff adder (impaired clotting), but bites have never been reported in this region. The overwhelming majority of snakebites occurred mainly among young male farmers, often during summer months. Polyvalent antivenoms are available until now in Oman, all are imported, may or may not offer protection in the individual case. No evaluation of the efficacy of available antivenoms has been conducted. Few medical publications have been done about snakebites In Oman. Non-had discussed the practical use of polyvalent antivenoms and clinical effect and adverse reactions. Nine of the 22 terrestrial snakes of Oman, and all of the 9 species of sea-snakes, are venomous. Snakebites cases are 6.8% of total cases of acute poisoning cases presented to 45 local health centers, secondary and tertiary hospitals in Oman according to statistics done on year 2000. In most cases of serious envenomation from bites by terrestrial snakes, vipers have been incriminated, especially the saw-scaled or carpet vipers and, less frequently, Gasperetti's horned viper. Only in Dhofar are found the non-aggressive Arabian cobra (venom is neurotoxic) and the indolent Puff adder (impaired clotting), but bites have never been reported in this region. The overwhelming majority of snakebites occurred mainly among young male farmers, often during summer months. Polyvalent antivenoms are available until now in Oman, all are imported, may or may not offer protection in the individual case. No evaluation of the efficacy of available antivenoms has been conducted. Few medical publications have been done about snakebites In Oman. Non-had discussed the practical use of polyvalent antivenoms and clinical effect and adverse reactions.

Aims: To make a retrospective study about the efficacy of polyvalent antivenom on treatment of snakebites due to different species of snakes in Oman. To study the adverse effects of the antivenom on treated cases of snakebites To make a retrospective study about the efficacy of polyvalent antivenom on treatment of snakebites due to different species of snakes in Oman. To study the adverse effects of the antivenom on treated cases of snakebites

Methods: Inclusion criteria: All venomous snakebites cases presented to secondary and tertiary hospitals and treated with snake antivenom in 2012-2014. Exclusion criteria: Any case of snakebite that did not receive the antivenom. Data collection: Data will be collected from Al Shifa System which is a database, used for hospital recording for patient visits and information to Oman Hospital. Data then will be recorded in an excel sheet. Inclusion criteria: All venomous

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Major Limitations/Questions: Limitation will be faced in checking the adverse reactions to antivenom e.g. serum sickness days after discharge from the hospital. Limitation will be faced in checking the adverse reactions to antivenom e.g. serum sickness days after discharge from the hospital.