



Short Communication

Systematic Approach to Prevent Skin Leishmania

Saeid Parsa*

Abstract

Skin Leishmania is a skin disease which is caused by the bite of sand-flies. Sand-flies are reproduced in warm and humid locations and live in remote places under home-stays. The disease is caused by Leishmania parasite. Another way to transmit the disease is from exudates. There are two types of Leishmania exudates, dry and wet, the secondary is painful and could be contagious. The objective of this paper is to plan a model to prevent sand-flies to reproduce and preventing the population from Skin Leishmania.

Keywords

Skin Leishmania; Sand-flies; Humid location; Parasite; Exudates

Introduction

There are many ways to prevent the population suffering from skin Leishmania [1,2]. Our objective is to form a method using following techniques to control the disease in population:

- Keeping animals cage separate from living environment and clean them regularly.
- Keeping sewage systems clean and dispose the waste water.
- Keep out wild animals from the living areas.
- Try to level construction sites.
- Hang nets over the open windows and doors.
- Try to cover the exposed areas of your body and your children at nights when going out from home.
- Use anti sand-flies cream over the exposed areas of your body.
- If beaten by sand-flies take the proper medication as soon as possible [3,4].

In this paper we use two techniques to plan tackling this disease:

Decision tree

- First step is to start educating population by giving hands out and seminar classes.
- Second step is to prepare environment with the appended steps above (Figure 1).

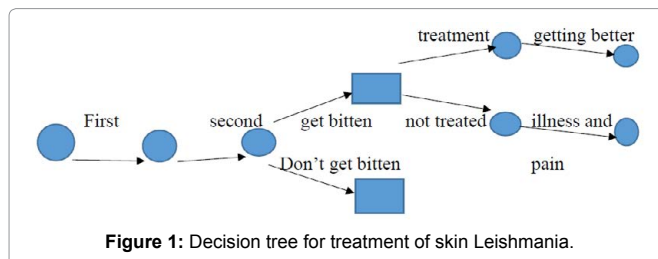


Figure 1: Decision tree for treatment of skin Leishmania.

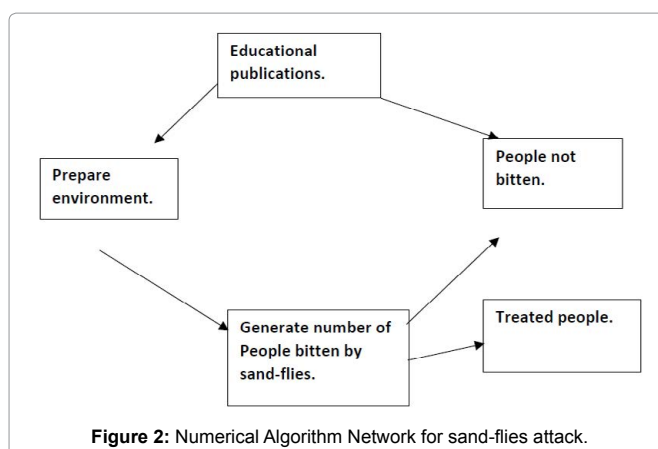


Figure 2: Numerical Algorithm Network for sand-flies attack.

Numerical algorithm

Educate population using lectures and seminars. Environment preparation:

- Prepare environment: keeping your premises and level construction sites clean.
- Hang net on the open windows and doors.
- If bitten by sand-flies get medical care from dermatologist and take medication as soon as possible.
- Using computer simulation having the statistical distribution for number of people bitten by sand-flies, number of people to be bitten in future could be estimated with this and proper medication and other considerations could be foreseen (Figure 2).

Acknowledgments

I would like to thanks all researchers caring for developing countries.

References

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Author Affiliations

Material and Energy Research Center, Tehran, I.R. Iran

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*Corresponding author: Saeid Parsa, Retired from Material and Energy Research Center, Tehran, I.R. Iran, E-mail: Saeidparsa2004@gmail.com

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