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# DIABETIC FOOT AND IT'S AYURVEDIC MANAGEMENT - A CASE STUDY

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# ABSTRACT

India is the diabetic capital of the world gaining the status of a potential epidemic. 25% cases of diabetes mellitus turns into grievous complications like a diabetic foot. 5% of the entire lower limb surgeries are known to be amputation of the foot due to a diabetic wound (*Dushtavrana*). The treatment of diabetic foot requires a team of physician, a surgeon and an endocrinologist and measures are taken to control the sugar of the patient, however, to prevent further aggravation and worsening of the patients condition, foot amputations is considered as the final decision. However, *Ayurvedic* intervention proves to be a silver lining in the dark cloud of diabetic complications .this case study will reveal the management of diabetic foot through *Bahya parimarjan along with internal medications*. A female patient of age48 years came with the complaint of non healing wound over right foot (plantar aspect) just below 5<sup>th</sup> toe of foot since 8 weeks. Patient was the diagnosed case of uncontrolled diabetes mellitus and on antidiabetic drugs from last eight years.After required investigations and local examination of wound, patient was planned and treated(*Ksharavarti, Jatyadi taila,Panchvalkala kwatha*) *Ayurvedic* formulatins as described in texts *of Ayurveda*.

**KEYWAORDS:** Diabetic foot, Shodhana, Ropana, Pancha valkala kwatha, Kshara varti, Jatyadi taila.

### INTRODUCTION

Foot complications are common in people with diabetes High blood glucose levels for longer durations damage blood vessels leading to reduced blood flow to the foot. This poor blood circulation contribute to the formation of ulcers and impairs wound healing. Elevated blood glucose levels over a period of time can damage the nerves of foot decreasing persons ability to notice pain and pressure. Loss of sensations further leads to develop pressure spots and accidentally injure the skin, soft tissues and bones. Nerve damage poor circulation and chronically high blood glucose levels increase the risk of foot complications. Vascular compromise should be considered a relative contraindication to a surgical approach and amputation may not be an easy option as wound healing will be poor. According to Sushruta, meda and rakta along with other dosha and dushya lead to the formation of premeha pidika which later converted to non -healing wounds or dushtavrana.

#### CASE STUDY

**Chief complaints:** wound in the plantar aspect of right foot just below  $5^{th}$  toe.

Associated complaints: pain and pus discharge.

**History of present illness:** Patient was a known case of diabetes. Two months ago she got wound in right foot. She approached Hi Tech Hospital, She got admitted and underwent treatment (debridement and regular dressing of the wound) for about 21 days. Later she was advised to undergo amputation of right foot. Patient was not willing for amputation. Hence she approached SKAMCH & RC for the conservative management.

**Past history:** Not a known case of Hypertension/ Bronchial Asthma/ Hypothyroidism/ other systemic disorders.

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Local Examination

**Examination of Wound in the Right Lower Limb Shape and Size of the Ulcer** Oval in shape, approximately 2cm length, 1.5 cm width, 3cm deep

#### Number-1

Position- plantar aspect of right foot just below the  $5^{\text{th}}$  toe.

Edge- punched out edge.

Floor and Base- not traceable, deep cavity opens into the dorsum of right foot on probing.

#### Local Examination

**Discharge**- pus discharge associated with foul smell present

**Surrounding Skin-** Normal, no discolouration or pigmentation, no signs of ischaemia

#### **Regular Medications**

Tab. Glisen mf2 1-0-1 before food

#### Investigations

Hb-11.2g% FBS- 226 mg/dL PPBS- 393 mg/dL CT- 8' 56'' BT- 2' 35'' HIV 1 & 2- non reactive HbSAg-nonreactive

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# Trea<u>tment</u>

3-1-2019	Dressing of the wound with Jatyadi Taila on opd basis
4-1-2019 to 7-1-2019 Pain and Pus discharge persist, tenderness persist, slough present.	On opd basis Tab Kaishore guggulu 2 bd Tab Gandhaka Rasayana 1 bd Vrana prakshalana with panchavalkala kashaya Kshara varti was inserted daily for 4 consecutive days Followed by dry dressing of the wound
8-1-2019 to 11-1-2019 Mild pus discharge noted,tenderness reduced,size of the wound reduced,healthy granulation tissue noted.	On opd basis Tab Kaishore guggulu 2 bd Tab Gandhaka Rasayana 1 bd Vrana prakshalana with panchavalkala kashaya Followed by dry dressing of the wound

12-1-2019 to 2-2-2019 Mild pus discharge noted, tenderness reduced, size of the wound reduced, healthy granulation tissue noted.	On OPD basis Tab Kaishore guggulu 2 bd Tab Gandhaa Rasayana 1 bd Vrana Prakshalana with Pancha Valkala Kashaya daily Followed by dressing of the wound with Jatyadi taila
3-2-1019 to 27-3-2019 Pus dicharge absent,tenderness absent,size further reduced.	Dressing of the wound with Jatyadi taila every alternate days



Probing done on 4-1-2019



Vrana Prakshalana with Panchavalkala Kwatha



Kshara Varti Insertion



Dressing of the Wound



Wound as on 14-01-2019



Wound healed at 4-4-2019

# RESULT

Wound completely healed Completely Healed Wound As On 4-4-2019

# DISCUSSION

- The treatment of diabetic foot with above ayurvedic drugs is found satisfactory.
- In this case we have used both external and internal medications.
- Kshara in the form of varti is indicated in gambhiravast for shodhana of vrana.
- Panchvalkala decoction has shodhana property, therefore daily washing of wounds with freshly prepared decoction leads to shodhana of vrana by removing the slough through the height maintained during prakshalana.
- Jathyadi taila is already prooved as a good vrana ropaka when the vrana is shuddha so it is used here which helps in healing of wound.

Kaishore guggulu and Gandhaka rasayana acts as vrana shodhana and ropana which helped in faster healing

# CONCLUSION

- As diabetic wound is a challenging case in nowadays practice,by proper understanding of avastha and doshic involvement in vrana,we can treat the condition with appropraite ayurvedic treatment.
- Dushtavrana is deerghakalanubandhi so all the tridoshas are involved and diabetic wound can be considered under as it is also a non healing wound.

So proper shodhana and ropana of vrana both externally and internally treatment is necessary in management of diabetic wound

# REFERENCES

- 1. Assal JP, et al. patient education in diabetic in recent trends in research, Stockholm: Almqvist and wiksel.
- Williams Norman s, Bulstrode Christopher J. K O'Connell Ronan P editor, bialey and love's short practice of surgery, published by CRC press Taylor and Francis group edition 25<sup>th</sup> year, 2013; 549.
  Ambikadatta shastri, editor, Sushrutha Samhita of
- Ambikadatta shastri, editor, Sushrutha Samhita of Vol-1 Sutrasthana, Chapter 23 verse no-7 re-edition varansi chaukhambha Sanskrit sansthan, 98
- 4. Ambikadatta shastri, editor, Sushrutha Samhita of Vol-2 Chikitsasthana, Chapter 12 verse no-4 reedition varansi chaukhambha Sanskrit sansthan p-62
- Ambikadatta shastri, editor, Sushrutha Samhita of Vol-1 Sutrasthana, Chapter 23 verse no-26 reedition varansi chaukhambha Sanskrit sansthan p-97
- Ambikadatta shastri, editor, Sushrutha Samhita of Vol-2 Chikitsasthana, Chapter 18 verse no-34 reedition varansi chaukhambha Sanskrit sansthan p-169
- 7. Srikantha Murthy, editor, Sarngadhara-samhita

khanda 2 chapter 12 verse no-149 re-edition varansi chaukhambha Sanskrit sansthan

8. Srikantha Murthy, editor, Sarngadhara-samhita khanda 2 chapter 11 verse no-169,170,171 re-edition varansi chaukhambha Sanskrit sansthan.