

# Evaluation of 100% Manuka honey in expedience of diabetic wound debridement versus a selective chemical debriding agent

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## Problem statement

Diabetics wounds suffer from both excessive callous formations on the edges and fibrin, web-like netting, which develops on the wound base. The callous is removed through sharp debridement; however, the fibrin presents a tough obstacle and often reforms in spite of aggressive care. This study analyzes the expedience of debridement utilizing a selective chemical debrider versus autolysis with the use of a 100% Manuka honey.

## Study overview and past treatment and execution

Twenty residents/patients were included in this study. All had diabetic heel ulcers with a combination of slough and fibrin covering 100% of their bases. Blood sugars were stable and all were insulin dependent. Off-loading of the heels was accomplished so that the patient was non weight bearing. Ten were enrolled to utilize a 100% Manuka honey and 10 were enrolled utilizing a selective chemical debriding agent. All wounds were cleansed with normal saline and the gel was applied nickel thick. Dry bordered gauze was used as a cover dressing. The wounds were evaluated for debridement expedience over a period of 12 days with a dressing frequency of every day. All wounds had established arterial competence.

## Chemical debrider findings (% denotes necrotic material on wound)

Client #	Day 1	Day 3	Day 6	Day 9	Day 12
1	100%	100%	100%	90%	90%
2	100%	100%	90%	70%	60%
3	100%	100%	90%	90%	90%
4	100%	90%	80%	80%	80%
5	100%	100%	90%	90%	90%
6	100%	100%	100%	100%	90%
7	100%	100%	-	-	out hospital
8	100%	100%	90%	90%	90%
9	100%	100%	100%	90%	90%
10	100%	90%	90%	90%	90%

## 100% Manuka honey findings (% denotes necrotic material on wound)

Client #	Day 1	Day 3	Day 6	Day 9	Day 12
1	100%	80%	50%	40%	10%
2	100%	60%	50%	30%	10%
3	100%	90%	40%	30%	10%
4	100%	90%	60%	60%	30%
5	100%	60%	50%	20%	10%
6	100%	80%	30%	10%	0%
7	100%	90%	40%	30%	20%
8	100%	70%	50%	40%	20%
9	100%	80%	50%	20%	0%
10	100%	50%	20%	20%	10%

## Findings

After twelve days with the use of the chemical agent, 7 had 90% necrosis still present, 1 had 80% and 1 had 60% and 1 went to the hospital. After twelve days using the 100% Manuka honey 1 had 30% necrosis, 2 had 20% necrosis, 5 had 10% necrosis and 2 were necrosis free.

## Conclusion

The 100% Manuka Honey provided superior expedient debridement of diabetic ulcers.

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