

CASE SERIES OF COMPLETE HEALING WITH MACROPHAGE-REGULATING DRUG ON101 CREAM ON TREATMENT ON WAGNER GRADE 2 TO 3 DIABETIC FOOT ULCER

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► Aim and Background

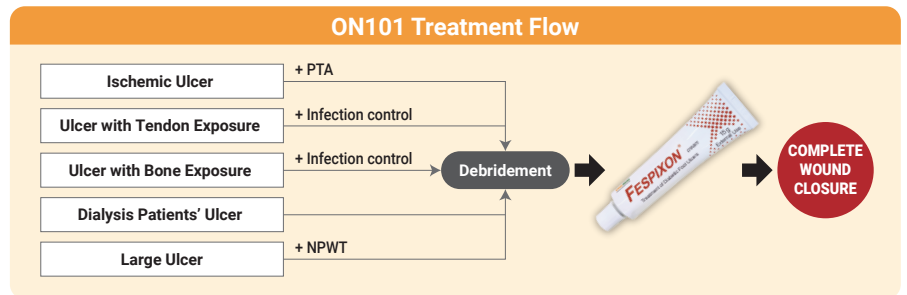
To assess the efficacy of Macrophage-Regulating Drug ON101 cream on treatment on Wagner grade 2 to 3 diabetic foot ulcer (DFU).

► Method

This study involved ten patients aged 45 to 79 years with Wagner grade 2 to 3 diabetic foot ulcers (DFUs). Each patient underwent thorough debridement to control infection, which included forefoot amputation in cases with extensive open wound surfaces. Additionally, revascularization procedures were performed when indicated, and appropriate offloading measures were implemented. The Macrophage-Regulating Drug ON101 cream was applied twice daily, and the wound area and condition were regularly evaluated by a plastic surgeon.

► Conclusion

- ON101 modulates the M1/M2 macrophage balance within the DFU microenvironment enabling the transition of the wound from the inflammatory phase to the proliferative phase, promoting effective healing.
- For optimal efficacy with ON101, infection control, vascular revascularization when needed, proper offloading, adequate nutritional support, and blood sugar management are important. Together, the physiological burden of wounds are reduced in diabetic patients who are immunocompromised or have multiple comorbidities. Favorable healing results have been noted in this study.



► Results

- All patients achieved complete healing, defined as skin re-epithelialization without drainage or dressings requirements.
- Among ON101 users, there were no cases of ulcer recurrence, amputations, or mortality during the follow-up period.

Case No.	Gender	Age	Comor-bidities	Wagner Grade	Wound Location	Wound Size (cm)	Pre-ON101 Therapy	Time of ON101 Treatment (days)	Outcome (Healed/non-healed)	Drug Consumption (15-g/package)
1	F	73	DM,PAOD	3	Dorsal foot	4×8	Revascularization, Debridement	90	Healed	2.5 pck
2	F	68	DM, PAOD, ESRD	3	Forefoot	3×11	Revascularization, Debridement	75	Healed	2 pck
3	M	65	DM	3	1st toe	2.5×5	Debridement	101	Healed	2.5 pck
4	F	57	DM	2	Dorsal foot	2×3	Debridement	32	Healed	1 pck
5	M	56	DM, PAOD	2	Plantar foot	3×3	Revascularization, Debridement	55	Healed	1.5 pck
6	M	79	DM, PAOD	3	Forefoot	4×2.5	Revascularization, Debridement	83	Healed	2.5 pck
7	M	58	DM, PAOD	3	Forefoot, Plantar	8×4 12×6	Revascularization, Debridement, NPWT	122	Healed	7 pck
8	F	46	DM, PAOD	3	1st toe	3×1.5	Revascularization, Debridement	25	Healed	1 pck
9	F	45	DM	2	5th toe	1×1	Debridement	29	Healed	1 pck
10	M	73	DM	3	2nd toe	1×1	Debridement	28	Healed	1 pck

Forefoot ulcer, 75 days



1st toe and mid-foot ulcer, 101 days



Dorsal foot ulcer, 32 days



Forefoot ulcer, 83 days



Forefoot and plantar foot ulcer, 122 days



1st toe ulcer, 25 days

