

# Recovery from Toes Amputation with an Innovative Topical Powder (EctoSeal P2G)

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## Case Report:

A 66-year-old male diabetic patient had all his toes amputated from the right foot because of diabetes and vascular disease. Surgery was performed to remove tissues and bones which were preventing wound healing. The surgery went well but there were concerns with regards to the patient's full recovery. As such, a health-related quality of life questionnaire was completed by the patient: Wound-QoL-17 (Blome *et al.*, 2014). This is a validated questionnaire composed of 17 items which are classified according to 3 subscales: body, psyche and everyday life. Each item is scored from 0 (not at all) to 4 (very much). The highest possible global score is 68 (17x4). A minimum of 75% of the items must be answered for a valid assessment. The higher the global score obtained, the greater the impairment on the patient's self-reported quality of life. Permission was requested and obtained by the license holder to use this questionnaire for the purpose of individual case studies.

The physician discussed treatment options with the local compounding pharmacist who offered to visit the clinic to present an innovative topical powder: PCCA EctoSeal P2G. Subsequently, the physician prescribed a compounded medication including phenytoin, ceftriaxone, aloe vera, misoprostol and beta glucan in the proprietary topical powder (Table 1). The first application of the compounded medication took place at the clinic. A few days later, the wife of the patient removed the medication at home and re-applied it herself. For a period of about 5 weeks, the wife of the patient removed the medication and re-applied it twice weekly (Tuesdays and Fridays). Before topical compounded treatment, the patient scored most items as "very much", yielding a global total score of 58 which is only 10 points below the highest possible score. The most affected subscales were "psyche" and "everyday life". This result shows that the patient's quality of life was very much affected by the wound healing difficulties. At the end of the treatment with the topical compounded medication, the patient achieved full recovery from the toes amputation and related wound healing difficulties, as shown in Figure 3, without any reported complications.

Rx	100 g
Phenytoin USP	2 g
Piperacillin and Tazobactam for Injection, USP (3.375 g vial)	1.48 g
Misoprostol 1% (HPMC Dispersion)	0.24 g
Aloe Vera Powder Freeze Dried 200:1	0.2 g
Beta Glucan (1,3) NQ	0.2 g
Base, PCCA EctoSeal P2G™ Powder	95.88 g

**Table 1.** Phenytoin 2%/Piperacillin 1.255%/Tazobactam 0.157% (CADP)/Misoprostol 0.0024%/Aloe Vera/Beta Glucan Topical Powder (EctoSeal P2G): PCCA Formula 15317.



**Figure 1.**

Right foot following toes amputation.



**Figure 2.**

Right foot following debridement.



**Figure 3.**

Right foot at the end of the topical treatment.

Blome C, Baade K, Sebastian Debus E, Price P and Augustin M (2014). The "Wound-QoL": A short questionnaire measuring quality of life in patients with chronic wounds based on three established disease-specific instruments. *Wound Repair Regen* 22:504–14.