WHO Meeting on Buruli Ulcer, 20-22 March 2017, Geneva

PRELIMINARY DATA ABOUT WOUND CARE MANAGEMENT IN BURULI ULCER (BU). EVIDENCE FROM LESIONS COMPLICATED BY TOPICAL (T-MC) AND NON-TOPICAL MICROBIAL COLONIZATION (nT-MC)

Iabichella ML*, Fusari V**, Topolinska M*, Amaku Anzako C***, Pediliggieri C*, Iabichella A*, Bertolotti A****
* Helios Med ONLUS – International Health Cooperation; ** University of Pavia; *** Ariwara Hospital, DR Congo; **** Intermed-ONLUS

BACKGROUND

Topical Microbial Colonization (T-MC) can lead to lesion chronicization due to increased exudate and fibrine. The properties of ozone and Hyperoil® avoid wound worsening, reduce the risk of secondary infection and stimulate tissue repair.

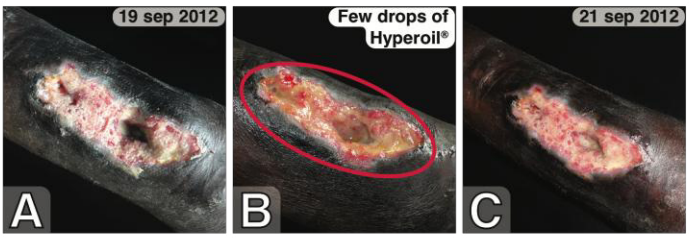
Helios Med ONLUS has drawn up a form to collect demographic and clinical data for the treatment of skin lesions. Since 2012, in DR Congo and Benin, it detects infections in acute and chronic skin lesions due to Buruli Ulcer (BU) or other aetiology (n-BU), which influence not only the healing time of the trophic lesions but also the patients' quality of life.

CASES AND METHOD

Ozone Therapy
(O_2-O_3 mixture at a concentration of 20-30 µg/ml for 20 minutes)

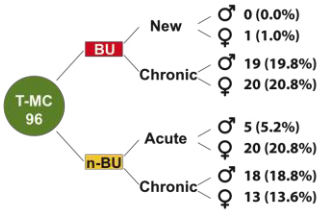
Iabichella ML *et al.*, *The PARI protocol. Evidence-Based Medicine Buruli Ulcer Ozone Treatment*, Pozzallo: HeliosMed, 2013

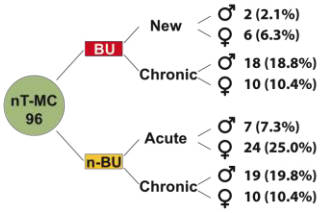
Hyperoil® Treatment
(mixture of Hypericum perforatum and Azadirachta indica)

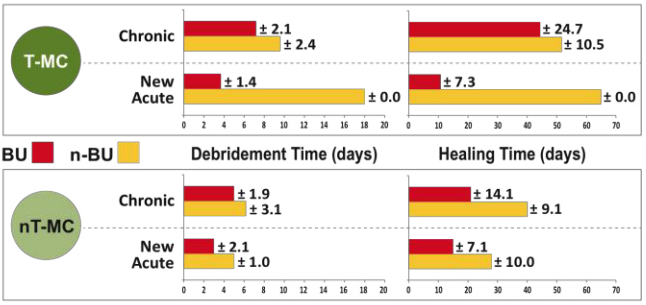


Iabichella ML *et al.*, Localized Treatment of Chronic Buruli Ulcer with Hyperoil®: an Unexpected Outcome, Austin J Clin Case Rep. 2014;1(7): 1035

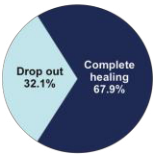
RESULTS







Aetiology		Drop out (%) New/Acute ♂	Drop out (%) New/Acute ♀	Drop out (%) Chronic ♂	Drop out (%) Chronic ♀
T-MC	BU	-	-	1.0	1.0
	n-BU	1.0	1.0	9.4	5.2
nT-MC	BU	1.0	-	2.1	-
	n-BU	2.1	-	8.3	-



CONCLUSION

Data suggest that topical treatment of BUs necessarily requires antiseptic dressings able to reduce the risk of T-MC and effectively stimulate the granulation tissue, and the complete tissue repair.

BUs and n-BUs without Topical Microbial Colonization (nT-MC) have shorter debridement and healing times. As a matter of fact, when BUs are complicated by T-MC, they need significantly longer healing time than n-BUs, and also they require a longer debridement time, above all new BUs.

Thus, training local health workers is relevant to prevent T-MC, in order to avoid chronicization and complications related to management.