

## Accepted Manuscript

Effect of poly(ethylene glycol) on insulin stability and cutaneous cell proliferation in vitro following cytoplasmic delivery of insulin-loaded nanoparticulate carriers – A potential topical wound management approach

Dalia H. Abdelkader, Mohamed A. Osman, Sanaa A. El-Gizawy, Suzan J. Hawthorne, Ahmed M. Faheem, Paul A. McCarron



PII: S0928-0987(17)30684-X  
DOI: <https://doi.org/10.1016/j.ejps.2017.12.018>  
Reference: PHASCI 4338

To appear in: *European Journal of Pharmaceutical Sciences*

Received date: 4 July 2017  
Revised date: 19 December 2017  
Accepted date: 21 December 2017

Please cite this article as: Dalia H. Abdelkader, Mohamed A. Osman, Sanaa A. El-Gizawy, Suzan J. Hawthorne, Ahmed M. Faheem, Paul A. McCarron , Effect of poly(ethylene glycol) on insulin stability and cutaneous cell proliferation in vitro following cytoplasmic delivery of insulin-loaded nanoparticulate carriers – A potential topical wound management approach. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Phasci(2017), <https://doi.org/10.1016/j.ejps.2017.12.018>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Effect of poly(ethylene glycol) on insulin stability and cutaneous cell proliferation *in vitro* following cytoplasmic delivery of insulin-loaded nanoparticulate carriers – a potential topical wound management approach**

Dalia H. Abdelkader<sup>1,2</sup>, Mohamed A. Osman<sup>2</sup>, Sanaa A. El-Gizawy<sup>2</sup>, Suzan J. Hawthorne<sup>1</sup>, Ahmed M. Faheem<sup>3</sup> and Paul A. McCarron<sup>1\*</sup>

<sup>1</sup>*School of Pharmacy and Pharmaceutical Sciences, Saad Centre for Pharmacy and Diabetes, Ulster University, Cromore Road, Coleraine, Co. Londonderry, BT52 1SA, UK.*

<sup>2</sup>*Faculty of Pharmacy, Pharmaceutical Technology Department, Tanta University, Tanta, 31111, Egypt.*

<sup>3</sup>*Sunderland Pharmacy School, University of Sunderland, Sunderland, SR1 3SD, UK.*

\*Corresponding author  
Prof. Paul A. McCarron  
School of Pharmacy and Pharmaceutical Sciences,  
University of Ulster,  
Cromore Road,  
Coleraine,  
Co. Londonderry,  
BT52 1SA, UK  
Tel: +44 (0) 28 70123285  
Fax: +44 (0) 28 70123518  
Email: p.mccarron@ulster.ac.uk

Download English Version:

<https://daneshyari.com/en/article/8511833>

Download Persian Version:

<https://daneshyari.com/article/8511833>

[Daneshyari.com](https://daneshyari.com)