

Stem/Progenitor cells can predict wound healing

November 3 2015



Stem/progenitor cell assays can predict wound healing in diabetic foot ulcers, according to a study published online Oct. 20 in *Diabetes*.

(HealthDay)—Stem/progenitor cell (SPC) assays can predict wound healing in diabetic foot ulcers (DFUs), according to a study published online Oct. 20 in *Diabetes*.

Stephen R. Thom, M.D., Ph.D., from the University of Maryland School of Medicine in Baltimore, and colleagues collected blood and debrided wound margins for eight weeks from 100 patients undergoing weekly evaluations and treatment. They examined SPC number and intracellular content of hypoxia inducible factors (HIFs).

The researchers found that in the first two weeks of care, more SPCs entered the bloodstream in patients who healed (37 patients) than those who did not (63 patients). The number of bloodborne SPCs and cellular

content of HIFs at study entry and first week follow-up visit predicted healing. Among week-to-week assessment of bloodborne SPC's HIF factors, strong correlations were identified.

"We conclude that assays of SPCs during the first weeks of care in patients with DFUs can provide insight into how well wounds will respond, and may aid with decisions on use of adjunctive measures," the authors write.

More information: [Abstract](#)
[Full Text \(subscription or payment may be required\)](#)

Copyright © 2015 [HealthDay](#). All rights reserved.

Citation: Stem/Progenitor cells can predict wound healing (2015, November 3) retrieved 18 April 2024 from <https://medicalxpress.com/news/2015-11-stemprogenitor-cells-wound.html>

<p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p>
--