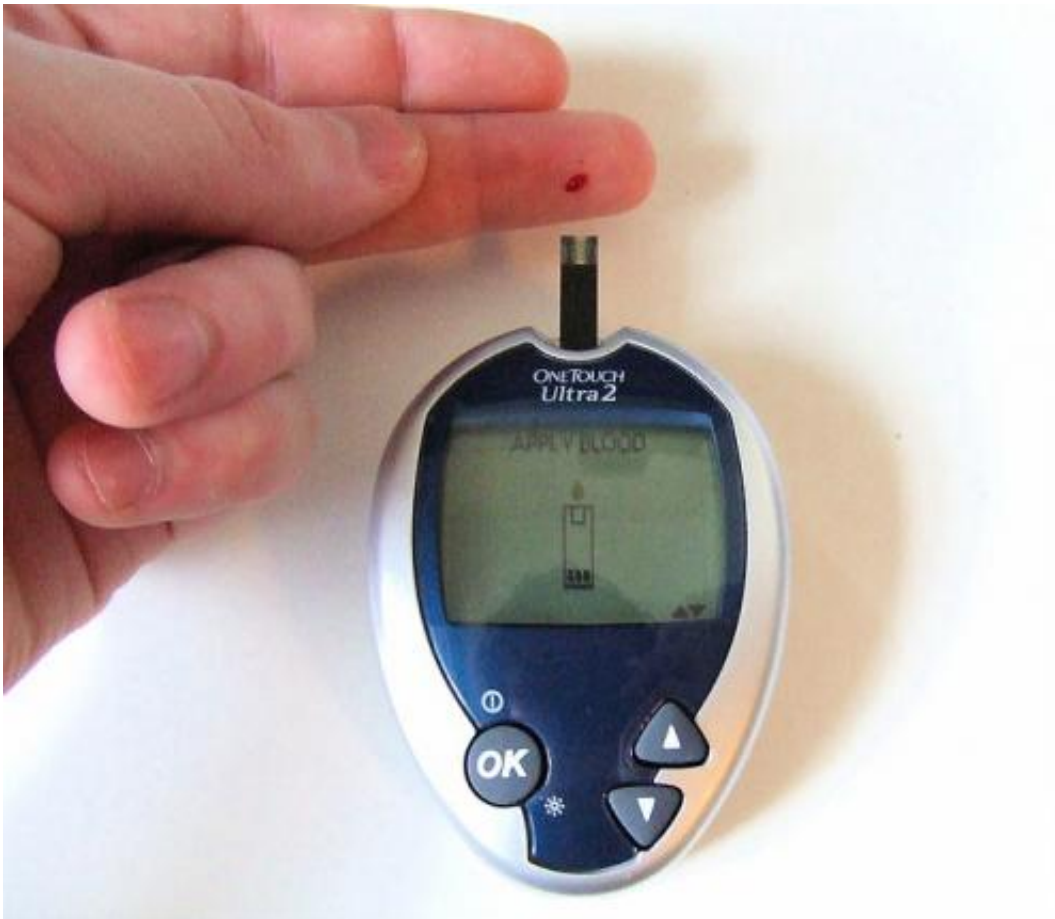


# 'Educating' patients' immune cells may help combat diabetes

July 7 2017

---



Blood glucose monitoring. Credit: Wikipedia

New research reveals that a treatment called Stem Cell Educator therapy is safe and effective for treating type 1 and type 2 diabetes. The therapy

cultures the patient's immune cells with cord blood stem cells and returns only the "educated" immune cells to the patient's circulation.

The strategy may provide benefits because abnormalities in multiple types of [immune cells](#) contribute to the autoimmunity in type 1 diabetes and the insulin resistance in type 2 diabetes.

"Current mechanistic studies demonstrated that platelets and their released mitochondria may contribute to the long-lasting clinical improvement of islet beta cell function in type 1 and 2 diabetic patients after Stem Cell Educator therapy," said Dr. Yong Zhao, lead author of the *Stem Cells Translational Medicine* study. "This therapy can also be applied to treat other autoimmune and inflammation-related diseases."

**More information:** *Stem Cells Translational Medicine* (2017). [DOI: 10.1002/sctm.0078](https://doi.org/10.1002/sctm.0078)

Provided by Wiley

Citation: 'Educating' patients' immune cells may help combat diabetes (2017, July 7) retrieved 20 April 2024 from <https://medicalxpress.com/news/2017-07-patients-immune-cells-combat-diabetes.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>
--