

Platelet-rich plasma injection may be effective for alopecia

December 7 2017



(HealthDay)—Subcutaneous injection of platelet-rich plasma (PRP) may

be effective for treating alopecia, according to an experimental study published Nov. 11 in the *Journal of Cosmetic Dermatology*.

Sophie Orliac, M.D., from Université Paris Diderot, and colleagues assessed the potential of PRP subcutaneous injection to treat alopecia and to evaluate local toxicity in 12 hairless rats. Subcutaneous [injection](#) occurred in four quadrants using either PRP, platelet-poor plasma (PPP), physiological serum (PS), or no treatment.

The researchers found that hair density was significantly improved at day 28 and at month six for PRP versus PS ($P = 0.0156$ and 0.0313 , respectively) and PPP ($P = 0.042$ and 0.046 , respectively). There was significant histological improvement between day 28 and month six for PRP versus PPP and PS for vessels ($P = 0.0160$ and 0.021 , respectively), collagen ($P = 0.0036$ and 0.032 , respectively), and epithelium ($P = 0.0138$ and 0.022 , respectively). There was no local toxicity.

"Our study suggests that subcutaneous PRP injections using controlled concentration of platelets and leukocytes improve hair growth," the authors write.

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

Copyright © 2017 [HealthDay](#). All rights reserved.

Citation: Platelet-rich plasma injection may be effective for alopecia (2017, December 7) retrieved 9 April 2024 from <https://medicalxpress.com/news/2017-12-platelet-rich-plasma-effective-alopecia.html>

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.
