

Retronychia: clinical diagnosis and surgical treatment

Manuel António Campos,¹ Antonio Santos²

¹Department of Dermatology, Centro Hospitalar de Vila Nova de Gaia/Espinho, Vila Nova de Gaia, Porto, Portugal

²Department of Clínica da Pele, Instituto Português de Oncologia do Porto, Porto, Portugal

Correspondence to

Dr Manuel António Campos, manuelantonio campos@gmail.com

Accepted 16 December 2016

DESCRIPTION

Retronychia is the term used for proximal ingrowth of the nail and was first described by De Berker and Rendall¹ in 1999. It frequently affects women (~82%), and the great toes are the most common location.² The most frequent trigger is (micro) trauma.³ With trauma the nail plate separates completely from the matrix, a new plate grows under the old plate, pushes it upwards and is buried into the ventral aspect of the proximal nail fold (PNF), causing inflammation. This condition is rarely diagnosed and in 70% of the cases patients have been inadequately treated with oral antibiotics and antifungals.⁴

We report the case of a 14-year-old girl who was referred to our outpatient clinic with oedema, erythema and pain of the proximal nail fold of the right hallux (figure 1A). This condition had been present for 3 months and was resistant to topical and oral antibiotics. There was no family history of melanoma. The patient ran twice a week. Given this clinical presentation, we considered retronychia as the most probable diagnosis.

We performed surgical avulsion of the nail plate that demonstrated thickening of the proximal plate and the presence of two layers of nails (figure 1B, C). Histological examination of the nail excluded the presence of malignancy. After 4 months of

follow-up, 40% of the nail had regrown with slight thickening and yellowing but with no sign of recurrence (figure 1D). We explained the possibility of permanent dystrophy and yellowing of the nail to the parents.⁵

Learning points

- ▶ Retronychia is the term used for proximal ingrowth of the nail and must be differentiated from the most commonly seen onychocryptosis (embedding of the nail into the periungual lateral skin folds).
- ▶ Retronychia must be diagnosed on: painful inflammation of the proximal nail fold (PNF), thickening of the PNF and granulation tissue emerging from under the nail fold.
- ▶ Avulsion of the nail confirms the diagnosis and is therapeutic.

Contributors MAC and AS have performed substantial contributions to the conception of the work and drafting. They provide final approval of the version published. Both authors agree to be accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.

Competing interests None declared.

Patient consent Obtained.

Provenance and peer review Not commissioned; externally peer reviewed.

REFERENCES

- 1 De Berker DA, Rendall JR. Retronychia-proximal in growing nail. *J Eur Acad Dermatol Venereol* 1999;12(2 Suppl):126S.
- 2 Ventura F, Correia O, Duarte AF, et al. Retronychia—clinical and pathophysiological aspects. *J Eur Acad Dermatol Venereol* 2016;30:16–19.
- 3 Cabete J, Lencastre A. Recognizing and treating retronychia. *Int J Dermatol* 2015;54:e51–2.
- 4 Baumgartner M, Haneke E. Retronychia: diagnosis and treatment. *Dermatol Surg* 2010;36:1610–14.
- 5 Piraccini BM, Richert B, de Berker DA, et al. Retronychia in children, adolescents, and young adults: a case series. *J Am Acad Dermatol* 2014;70:388–90.

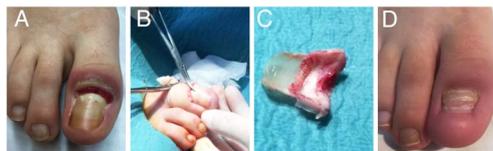


Figure 1 (A) Swollen and erythematous proximal nail fold. Granulation tissue is seen protruding from under the nail fold. Note the yellowish onycholytic discolouration of the nail. (B) Nail avulsion using the proximal approach, under digital block anaesthesia and tourniquet application. (C) Proximally thickened nail plate with a Y-shaped margin. Note the presence of two layers of nails. (D) Slight thickening and yellowing of the nail plate after 4 months of follow-up.



CrossMark

To cite: Campos MA, Santos A. *BMJ Case Rep* Published online: [please include Day Month Year] doi:10.1136/bcr-2016-218758

Copyright 2017 BMJ Publishing Group. All rights reserved. For permission to reuse any of this content visit <http://group.bmj.com/group/rights-licensing/permissions>.
BMJ Case Report Fellows may re-use this article for personal use and teaching without any further permission.

Become a Fellow of BMJ Case Reports today and you can:

- ▶ Submit as many cases as you like
- ▶ Enjoy fast sympathetic peer review and rapid publication of accepted articles
- ▶ Access all the published articles
- ▶ Re-use any of the published material for personal use and teaching without further permission

For information on Institutional Fellowships contact consortiasales@bmjgroup.com

Visit casereports.bmj.com for more articles like this and to become a Fellow