

Tacrolimus-induced gingival hyperplasia and recovery from tacrolimus to everolimus switching

Alihan Oral,² Ali Bakan²

¹Department of Intenal Medicine, Istanbul Bilim University Faculty of Medicine, Istanbul, Turkey ²Department of Intenal Nephrology, Istanbul University of Health Sciences Kanuni Sultan Suleyman Training and Research Hospital, Istanbul, Turkey

Cite this article as: Oral A, Bakan A. Tacrolimus-induced gingival hyperplasia and recovery from tacrolimus to everolimus switching. North Clin Istanb 2020;7(2):185–186.

28-year-old female patient presented with a complaint of gingival hyperplasia (GH). The patient has diagnosed with chronic renal failure due to focal segmental glomerulosclerosis. She had a renal transplant eight months before admission to our hospital. The patient was using tacrolimus (TcR) 9 g/day, mycophenolate mofetil 720 mg/ day, prednisolone 5 mg/day, lansoprazol 40 mg/ day. She did not use nifedipine or phenytoin. Physical examination revealed GH (Fig. 1), but there were no other pathologies. General systemic examination and laboratory tests were normal. The blood TcR level was 11 ng/ml (normal range: 5-20 ng/ml). TcR was interrupted and switched to everolimus. It was observed that GH improved after one month in the outpatient clinic (Fig. 2).

GH occurs as unwanted side effects of the drugs. These drugs are usually immunosuppressants (such as cyclosporin A (CsA) and TcR), calcium channel blockers (nifedipine) and anticonvulsants (phenytoin) [1]. CsA-induced GH was found more frequently than TcR. There are even studies showing that TcR does not cause GH alone [2, 3]. When CsA-induced GH is developed, it is shown that GH is reduced if CsA is replaced by TcR [4]. In our case, TcR-induced GH was switched to everolimus, and GH regressed.



FIGURE 1. Tacrolimus-induced gingival hyperplasia.



FIGURE 2. Improved gingival hyperplasia.



Correspondence: Dr. Alihan ORAL. Istanbul Bilim Universitesi Tip Fakultesi, Ic Hastaliklari Anabilim Dali, Buyukdere Cad., No: 120, 34394 Esentepe Sisli, Istanbul, Turkey. Tel: +90 554 614 21 21 e-mail: dr.alihanoral@gmail.com © Copyright 2020 by Istanbul Provincial Directorate of Health - Available online at www.northclinist.com

Received: May 15, 2019 Accepted: September 13, 2019 Online: November 20, 2019

Informed Consent: Written informed consent was obtained from the patient for the publication of the case report and the accompanying images.

REFERENCES

- 1. Bekit A, Bagis N, Arpak N. Evaluation of Effects of Different Immunosuppressant Agents on Gingival Overgrowth. Int J Experiment Dent Sci 2015;4:17–22. [CrossRef]
- Spolidorio LC, Spolidorio DM, Massucato EM, Neppelenbroek KH, Campanha NH, Sanches MH. Oral health in renal transplant recipients administered cyclosporin A or tacrolimus. Oral Dis 2006;12:309– 14. [CrossRef]
- 3. James JA, Jamal S, Hull PS, Macfarlane TV, Campbell BA, Johnson RW, et al. Tacrolimus is not associated with gingival overgrowth in renal transplant patients. J Clin Periodontol 2001;28:848–52. [CrossRef]
- 4. Bader G, Lejeune S, Messner M. Reduction of cyclosporine-induced gingival overgrowth following a change to tacrolimus. A case history involving a liver transplant patient. J Periodontol 1998;69:729–32.