Dermatology Reports

True leukonychia: case reports and review of the literature

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SUPPLEMENTARY MATERIAL

Supplementary Table 1. Summary review of reported cases of idiopathic leukonychia.

Case (year of publication)	Gender/Age (years)	Clinical features	Investigations	Association / family history	Treatment and follow up
Eller, *et al.* (1928)[8]	Male, 15	Leukonychia totalis (LT) for 1 year	The original document is not available		
Stewart, *et al.* (1985)[9]9/24/25 4:19:00 PM	Male, 23	LT and Leukonychia partialis (LP) for 10 years.	All within normal limits	No associations or family history	No treatment reported
Lee, *et al.* (2004)[10]	Male, 26	LT of all fingers except the left thumb for 13 years	Not reported		

Park, *et al.* (2005)[1]	Male, 26	LP to LT for 13 years	The left thumb nail tested positive for potassium hydroxide, and *Trichophyton rubrum* was cultured. Other tests were normal	No associations or family history	Intralesional injections of corticosteroid with no benefits after 2 months
Chaudhry, *et al.* (2006)[7]	Female, 31	Transverse leukonychia started when she was 12 years with her menses	All within normal limits	No associations or family history	Har nails turn back to normal during the third trimester of pregnancy
Claudel, *et al.* (2005)[11]	Male, 12	LT and LP for 1 year. He took prednisone prior to the nail changes, and he was on albuterol inhaler. His leukonychia has continued although his asthma has been controlled and no longer requires treatment	All within normal limits	A known case exercise-induced asthma, his uncle had alopecia areata	No treatment reported
Bongiorno, *et al.* (2009)[12]	Male, 34	LP of both the fingers and LT for 11 years	Not reported	No associations or family history	No treatment reported
Arsiwala, *et al.* (2012)[3]	Male, 35	LT of the fingernail, and LS of the toenails for 23 years	All within normal limits	No associations or family history	No treatment reported
Bakry, *et al.* (2014)[13]	Male, 12	LT for 8 years	All within normal limits	No associations or family history	No treatment reported
Kim, *et al.* (2014)[14]	Male, 19	LT and LP of the toenails for 1 month	All within normal limits	No associations or family history	No treatment reported
D'Souza, *et al.* (2014)[27]	Male, 10	LP to LT for 6 years	All within normal limits	No associations or family history	Zinc and amino acid supplementation, series improvement was noted with complete resolution of the lesion after 7 months. The supplements were discounted 3 months following the resolution, and for 6 months no recurrent of leukonychia was noted
Dlova, *et al.* (2014)[4]	Male, 20	LT for 8 years	All within normal limits	No associations or family history	No treatment reported

	Male, 12	LP and LT since birth	All within normal limits	No associations or family history	No treatment reported
Verma, *et al.* (2014)[15]	Male, 24	LT of fingernails for 5 years, LP of toenails for 2 years	All within normal limits	No associations or family history	No treatment reported
Neki, *et al.* (2014)[16]	Male, 29	LT for 9 years	All within normal limits	No associations or family history	No treatment reported
Angoori, *et al.* (2015)[17]	Male, 30	LT, since childhood	All within normal limits	No associations or family history.	No treatment reported
	Male, 32	LT for 24 years.		Associated with polymorphic light eruption	No treatment reported
Canavan, *et al.* (2015)[18]	Male, 25	LT and LP for 1 year	All within normal limits	Known case of sickle cell anemia. He was treated with 6 months of oral terbinafine and 3 months of itraconazole for possible onychomycosis. No family history or other associations	No treatment reported
Das, *et al.* (2016)[24]	Male 14,	LT for 10 years	All within normal limits	No associations or family history	No treatment reported
Mathachan, *et al.* (2020)[19]	Male, 20	LT and LP for 1 year	All within normal limits	No associations or family history	No treatment reported
	Male, 18	LT for 3 years	All within normal limits	No associations or family history	No treatment reported
Freeman, *et al.* (2021)[20]	Male, 17	LT for 6 years	All within normal limits	No associations or family history	No treatment reported
Pandey, *et al.* (2022)[21]	Male, 17	LT and LP for 3 years	All within normal limits	No associations or family history	No treatment reported
Lin, *et al.* (2024)[22]	Male, 8	LT for 1.5 year. There is erythema, some edema, and skin peeling along some of his lateral and proximal fingernail folds	All within normal limits	Allergic rhinitis on no treatment. He was diagnosed with chronic nail fold eczema. After six months, the patient's fingernail fold eczema improved with mometasone furoate 0.1% cream and White Paraffin, but his leukonychia showed only slight improvement	No treatment reported

Almaani, *et al.* (2024)[23]	Male, 22	LT for 7 years. It resolved spontaneously and reoccurred through the years	All within normal limits	No associations or family history	No treatment reported
Ahmed, *et al.* (2025) (Our case)	Male, 26	LT for 10 years	All within normal limits except vitamin B12, which was 116 pmol/L, and mild elevation of TSH level, which was 4.970 mIU/L	No associations or family history	No treatment reported
	Female, 23	LP and LT for more than 10 years	All within normal limits	Her brother had single nail involvement	No treatment reported

LT, leukonychia totalis; LP, leukonychia partialis; LS, leukonychia subtotalis.

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