

Supplementary Material**Table S1.** Case reports on the treatment of *Fusarium* spp. onychomycosis.

Study	Microorganism	Clinical Presentation	Paronychia	Antifungal Treatments	Other antifungal treatments	Clinical Cure	Mycological Cure
Hirose et al., 2020	FOSC	PSO	Yes	10% efinaconazole solution during six months, cure was achieved after 12 months, no recurrence of onychomycosis or paronychia has been detected.	-	Achieved	Achieved
Khurana et al., 2018	FSSC	TDO	No	Treated previously with courses of terbinafine, itraconazole, and griseofulvin. No improvement in the appearance of the nail was observed.	Q-switched Nd-YAG laser	Achieved	Achieved
Diongue et al., 2017	FSSC	DLSO	No	-	-	-	-
Diongue et al., 2017	FSSC	-	No	-	-	-	-
Diongue et al., 2017	FOSC	-	No	-	-	-	-
Diongue et al., 2017	FSSC	DLSO	No	-	-	-	-
Diongue et al., 2017	FOSC	-	No	-	-	-	-
Diongue et al., 2017	FOSC	DLSO	No	-	-	-	-
Diongue et al., 2017	FFSC	DLSO	No	-	-	-	-
Diongue et al., 2017	FFSC	DLSO	No	-	-	-	-
Diongue et al., 2017	FSSC	-	No	-	-	-	-
Diongue et al., 2017	FSSC	-	No	-	-	-	-
Diongue et al., 2017	FFSC	-	Yes	-	-	-	-
Diongue et al., 2017	FSSC	-	No	-	-	-	-
Diongue et al., 2017	FSSC	-	No	-	-	-	-
Diongue et al., 2017	FOSC	DLSO	No	-	-	-	-

Diongue et al., 2017	FFSC	DLSO	No	-	-	-	-
Noguchi et al., 2017	FFSC	DLSO	No	Oral terbinafine for 25.5 months, this treatment did not achieve cure. Then, 3 months of topical application of 10% efinaconazole solution was prescribed.	-	Achieved	Achieved
Gupta et al., 2016	FFSC	PSO	-	-	-	-	-
Gupta et al., 2016	FSSC	PSO	-	-	-	-	-
Gupta et al., 2016	FSSC	PSO	-	-	-	-	-
Gupta et al., 2016	FSSC	PSO	-	-	-	-	-
Gupta et al., 2016	FFSC	DLSO	-	-	-	-	-
Gupta et al., 2016	FSSC	TDO	-	-	-	-	-
Gupta et al., 2016	FFSC	DLSO	-	-	-	-	-
Gupta et al., 2016	FSSC	TDO	-	-	-	-	-
Gupta et al., 2016	FSSC	PSO	-	-	-	-	-
Gupta et al., 2016	FSSC	DLSO	-	-	-	-	-
Gupta et al., 2016	FSSC	PSO	-	-	-	-	-
Al-Hatmi et al., 2015	FSSC	PSO	Yes	Initially, itraconazole 200 mg/day, changed to terbinafine 250 mg/day for 2-5 months, without clinical improvement. After molecular identification and anti-fungal susceptibility test, posaconazole 800 mg/day for 1 week each month for 4 months was started.	-	Achieved	Achieved
Ranawaka et al., 2015	FDSC	DLSO + TDO	Yes	400 mg/day 7 days/month itraconazole 3 pulses therapy.	Clotrimazole lotion	Not achieved	Not achieved
Ranawaka et al., 2015	FDSC	TDO	No	500 mg/day 7 days/month terbinafine 2 pulses therapy.	3% Thymol in spirit	Achieved	Achieved
Ranawaka et al., 2015	FDSC	DLSO + TDO	No	400 mg/day 7 days/month itraconazole (2 pulses for fingernails and 3 pulses for toenails).	3% Thymol in spirit	Not achieved	Not achieved

Ranawaka et al., 2015	FDSC	DLSO	Yes	400 mg/day 7 days/month itraconazole 2 pulses therapy.	3% Thymol in spirit	Not achieved	Not achieved
Ranawaka et al., 2015	<i>Fusarium</i> spp.	DLSO	Yes	400 mg/day 7 days/month itraconazole (2 pulses for fingernails and 3 pulses for toenails).	3% Thymol in spirit	Not achieved	Not achieved
Ranawaka et al., 2015	FOSC	DLSO + TDO	Yes	400 mg/day 7 days/month itraconazole (2 pulses).	3% Thymol in spirit	Not achieved	Not achieved
Ranawaka et al., 2015	FOSC	PSO	Yes	500 mg/day 7 days/month terbinafine (2 pulses for fingernails and 3 pulses for toenails).	3% Thymol in spirit	-	-
Ranawaka et al., 2015	FOSC	DLSO	Yes	500 mg/day 7 days/month terbinafine (2 pulses for fingernails and 3 pulses for toenails).	3% Thymol in spirit	Not achieved	Not achieved
Ranawaka et al., 2015	FDSC	DLSO	No	400 mg/day 7 days/month itraconazole 3 pulses therapy.	3% Thymol in spirit	Not achieved	Not achieved
Schmidt et al., 2015	<i>Fusarium</i> spp.	PSO + WSO	No	250 mg/day × 6 weeks terbinafine. After the initial six weeks of therapy, another six weeks of terbinafine was prescribed. The patient had complete clinical resolution of symptoms.	-	Achieved	-
Ikeda et al., 2014	FSSC	-	Yes	Initially, 2% ketoconazole cream for 3 weeks, but no improvement was observed. Then, terbinafine 125 mg/day was prescribed. After antifungal susceptibility test, topical 1% butenafine and 1% terbinafine cream was begun, without improvement.	Occlusive dressing therapy of 0.5% amorolfine cream. The nail plate and proximal nail fold were covered with plastic wrap for 8 h/day after application of amorolfine	Achieved	Achieved
Brasch et al., 2012	FOSC	-	Yes	Initially, itraconazole 200 mg daily for 10 weeks. The second attempt was itraconazole 400 mg/day for 10 weeks. Then, terbinafine 250 mg/day for 6 weeks. Topical antifungal treatment included amphotericin B.	Topical ciclopirox and polihexanide	-	-
Kuruvilla et al., 2012	FSSC	SWO	No	Itraconazole 200 mg/day for 2 months.	-	Not achieved	Not achieved
Ranawaka et al., 2012	<i>Fusarium</i> spp.	DLSO + TDO	Yes	-	-	-	-
Ranawaka et al., 2012	<i>Fusarium</i> spp.	DLSO	No	-	-	-	-
Brasch et al., 2011	FFSC	DLSO	No	100 mg/day itraconazole and bifonazole for 6 weeks previously; 100 mg/day itraconazole for another 4 weeks without improvement; Terbinafine cream.	Ciclopirox plus partly nail plate remove; Complete nail surgical avulsion; Ciclopirox.	Achieved	-
Gilaberte et al., 2011	FOSC	DLSO	-	Initially, oral terbinafine and itraconazole without improvement.	Amorolfine and ciclopirox lacquers;	Achieved	Achieved

						Methylaminolevulinate photodynamic therapy		
Lurati et al., 2011	<i>Fusarium</i> spp.	DLSO	No	Application of an amphotericin B solution once daily to the affected nails and surrounding tissue. 1–3 drops of the solution during 23 months.		Initially, topical treatment with amorolfine nail lacquer during 6 months	Achieved	-
Lurati et al., 2011	<i>Fusarium</i> spp.	TDO	No	Initially, terbinafine 250 mg/day during 3 days. Then, application of an amphotericin B solution once daily to the affected nails and surrounding tissue. 1–3 drops of the solution during 12 months.		-	Achieved	-
Lurati et al., 2011	<i>Fusarium</i> spp.	PSO	No	Application of an amphotericin B solution once daily to the affected nails and surrounding tissue. 1–3 drops of the solution during 12 months.		Initially, topical treatment with amorolfine nail lacquer during 6 months - 2 cycles	Achieved	-
Lurati et al., 2011	<i>Fusarium</i> spp.	TDO	No	Initially, terbinafine 250 mg/day during 3 days. Then, application of an amphotericin B solution once daily to the affected nails and surrounding tissue. 1–3 drops of the solution during 12 months.		Nail surgical avulsion and imidazole cream during 2 years.	Achieved	-
Lurati et al., 2011	<i>Fusarium</i> spp.	DLSO	No	Initially, terbinafine 250 mg/day during 3 months. Then, application of an amphotericin B solution once daily to the affected nails and surrounding tissue. 1–3 drops of the solution during 12 months.		-	Achieved	-
Lurati et al., 2011	<i>Fusarium</i> spp.	DLSO	No	Initially, terbinafine 250 mg/day during 3 months, treatment repeated 2x. Then, Application of an amphotericin B solution once daily to the affected nails and surrounding tissue. 1–3 drops of the solution during 11 months.		-	Achieved	-
Park et al., 2011	FOSC	-	No	Itraconazole 400 mg/day for 1 week followed by no medication for 3 weeks during 6 months.		-	Not achieved	Achieved
Yang et al., 2011	FSSC	DLSO	No	Itraconazole 200 mg/day for 3 months.		-	Not achieved	-
Yang et al., 2011	FSSC	DLSO	No	Terbinafine 250 mg/day for 2 months.		-	Not achieved	-
Baudraz-Rosset et al., 2010	FOSC	PSO	No	Initially, itraconazole 200 mg/day 1 week every month during 3 months; Terbinafine 250 mg/day p.o. during 6 months. Then, terbinafine 250 mg/day during 3 months. 6–12 months later, itraconazole pulse therapy 200 mg/day 1 week every month during 3 months.		Topical treatment with amorolfine and nail drilling.	-	-
Baudraz-Rosset et al., 2010	FOSC	DLSO	No	Initially, terbinafine 250 mg/day during 1 week/month, followed by fluconazole 150 mg/week during 3 weeks, for 3 months. Then, terbinafine 250 mg/day during 3 months and, 6–12 months later, itraconazole pulse therapy 200 mg/day 1 week every month during 3 months.		Nail drilling.	-	-

Baudraz-Rosselet et al., 2010	FOSC	DLSO	No	Initially, fluconazole 150 mg/week during 4 months; terbinafine 250 mg/day during 1 week per month, followed by fluconazole 150 mg/week during 3 weeks, for 3 months. Then, terbinafine 250 mg/day during 3 months and, 6–12 months later, itraconazole pulse therapy 200 mg/day 1 week every month during 3 months.	Topical treatment with amorolfine and nail drilling.	-	-	
Baudraz-Rosselet et al., 2010	FFSC	PSO	No	Initially, itraconazole pulse therapy 200 mg/day 1 week every month during 3 months. Then, terbinafine 250 mg/day during 3 months and, 6–12 months later, itraconazole pulse therapy 200 mg/day 1 week every month during 3 months	Topical treatment with amorolfine.	-	-	
Baudraz-Rosselet et al., 2010	FSSC	DLSO	No	Terbinafine 250 mg/day during 3 months		-	-	
Brasch et al., 2009	FSSC	DLSO	No			-	-	
Wu et al., 2009	FSSC	DLSO	No	Itraconazole 400 mg/day		-	Not achieved	Not achieved
Hattori et al., 2005	FFSC	DLSO	No	Itraconazole 200 mg/day for 1 week (no medication for 3 weeks) for 6 months.		-	Achieved	Achieved
Hattori et al., 2005	FFSC	DLSO	No	Initially, the patient received terbinafine 125 mg/day for 4 months, without improvement. Then, itraconazole 100 mg/day was prescribed for 2 months, but a little improvement was observed. Finally, pulse therapy with itraconazole 200 mg/day for 2 weeks (no medication for 2 weeks) was given. The treatment was carried out for 6 months		-	Achieved	Achieved
Summerbell et al., 2005	FSSC	DLSO	-			-	-	
Baran et al., 2004	<i>Fusarium</i> spp.	SWO	No			-	-	
Godoy et al., 2004	FSSC	SWO	-			-	-	
Godoy et al., 2004	FSSC	SWO	-			-	-	
Godoy et al., 2004	FSSC	SWO	-			-	-	
Godoy et al., 2004	FSSC	SWO	-			-	-	
Godoy et al., 2004	FOSC	SWO	-			-	-	
Godoy et al., 2004	FOSC	SWO	-			-	-	

Godoy et al., 2004	FOSC	SWO	-	-	-	-	-
Godoy et al., 2004	FOSC	SWO	-	-	-	-	-
Vella Zahra et al., 2003	FOSC	-	-	-	-	-	-
Vella Zahra et al., 2003	FSSC	-	-	-	-	-	-
Lee et al., 2002	FSSC	-	No	3 months with 400 mg/day itraconazole for 7 days/months for 2 months.	-	Not achieved	-
Tseng et al., 2000	<i>Fusarium</i> spp.	TDO		Econazole cream twice daily. After the mycological diagnosis, terbinafine cream twice daily for 4 weeks was prescribed. Lastly, fluconazole 100 mg/day was given.	Diluted clorox soaks	Achieved	-
Baran et al., 1997	FOSC	-	Yes	Topical bifonazole	Nail avulsion; Ciclopirox	Achieved	Achieved
Baran et al., 1997	FOSC	PSO	Yes	-	8% ciclopirox nail lacquer for 8 months and partial nail avulsion	Achieved	Achieved
Baran et al., 1997	FOSC	-	Yes	-	-	-	-
Gianni et al., 1997	FOSC	TDO	Yes	Itraconazole 200 mg/day for 3 months	-	-	-
Gianni et al., 1997	FOSC	DLSO	Yes	Terbinafine 250 mg/day for 3 months	-	Achieved	-
Gianni et al., 1997	FOSC	-	Yes	Itraconazole 200 mg/day for 3 months	-	Achieved	-
Gianni et al., 1997	FOSC	SWO	No	Terbinafine 250 mg/day for 3 months	-	Achieved	-

DLSO: Distal and lateral subungual onychomycosis; PSO: Proximal subungual onychomycosis; TDO: Total dystrophic onychomycosis; SWO: Superficial white onychomycosis; Mycological cure: negative KOH and negative fungal culture; Clinical cure: appearance of completely normal-looking nail; - : Not described; FDSC: *Fusarium dimerum* species complex; FFSC: *Fusarium fujikuroi* species complex; FOSC: *Fusarium oxysporum* species complex; FSSC: *Fusarium solani* species complex.