

# Review of the Clinical Efficacy and Safety of Efinaconazole 10% Topical Solution for Onychomycosis Across Subgroups

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## SYNOPSIS

- Onychomycosis can be difficult to treat, and factors like age and disease severity can impact treatment response<sup>1</sup>
- Topical efinaconazole 10% solution was first approved in the US in 2014 for once-daily treatment of toenail onychomycosis<sup>2</sup>
- Efficacy and safety of efinaconazole have been demonstrated in 2 identical pivotal phase 3 trials,<sup>3</sup> and in several post hoc analyses (eg, patient age, sex, race, etc)<sup>4-11</sup>

## OBJECTIVE

- To summarize the efficacy/safety data for efinaconazole in different subgroups from all phase 3 post hoc analyses published to date

## METHODS

- A literature search was conducted to identify post hoc analyses of the 2 efinaconazole phase 3 trials (NCT01008033; NCT01007708) that provided data for ≥1 efficacy endpoints noted below
  - A poster presentation was also included as these data are currently unpublished
  - In these identically designed trials, participants aged 18-70 years with mild to moderate toenail onychomycosis (20%-50% clinical involvement; N=1655) were randomized (3:1) to once-daily topical efinaconazole 10% or vehicle for 48 weeks with 1 follow-up at week 52<sup>3</sup>

- Efficacy endpoints at week 52 included rates of:
  - Complete cure (primary; 0% clinical involvement + negative potassium hydroxide examination and fungal culture [mycologic cure])
  - Complete/almost complete cure (secondary; ≤5% clinical involvement + mycologic cure)
  - Mycologic cure (secondary)
- Safety data were also summarized

## RESULTS

- A total of 9 post hoc analyses have been published/presented as a poster<sup>4-12</sup>
  - Twenty-five subgroups were examined (Table 1)
  - Note that the subgroups of sex, age, and severity were analyzed in more than 1 publication

## Efficacy

- All 9 analyses (25 subgroups) reported complete cure rates for efinaconazole vs vehicle, which were generally similar to the overall phase 3 populations<sup>3</sup> (Figure 1)
- Eight analyses reported complete/almost complete cure (14 subgroups; Figure 2)
  - These rates were generally similar to the overall populations<sup>3</sup>
- Mycologic cure rates were reported in 8 analyses (17 subgroups; Figure 3)
  - Similar to complete and complete/almost complete cure, mycologic cure rates were generally comparable to those of the overall populations<sup>3</sup>

FIGURE 1. Complete Cure at Week 52 by Subgroup

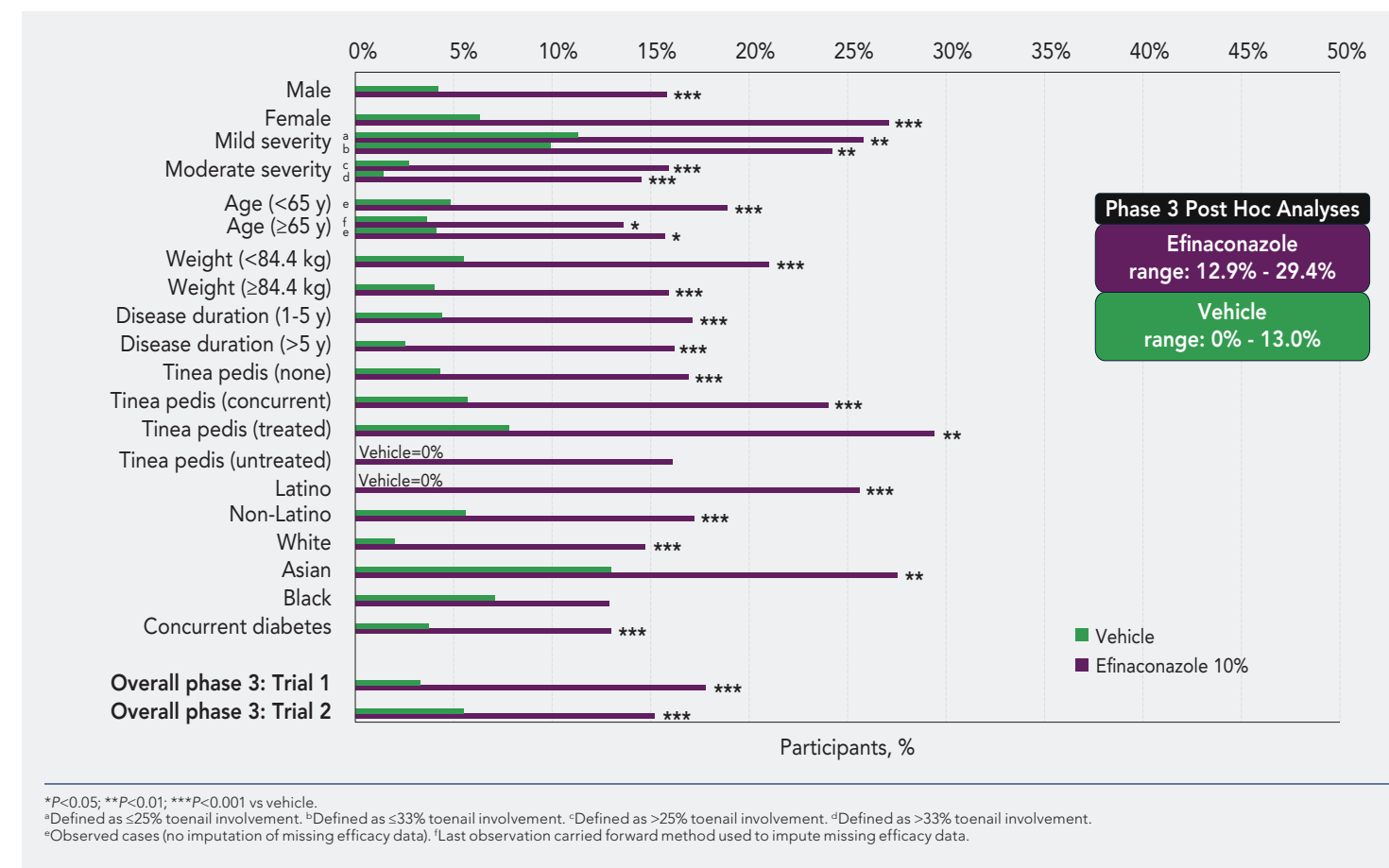


FIGURE 2. Complete/Almost Complete Cure at Week 52 by Subgroup

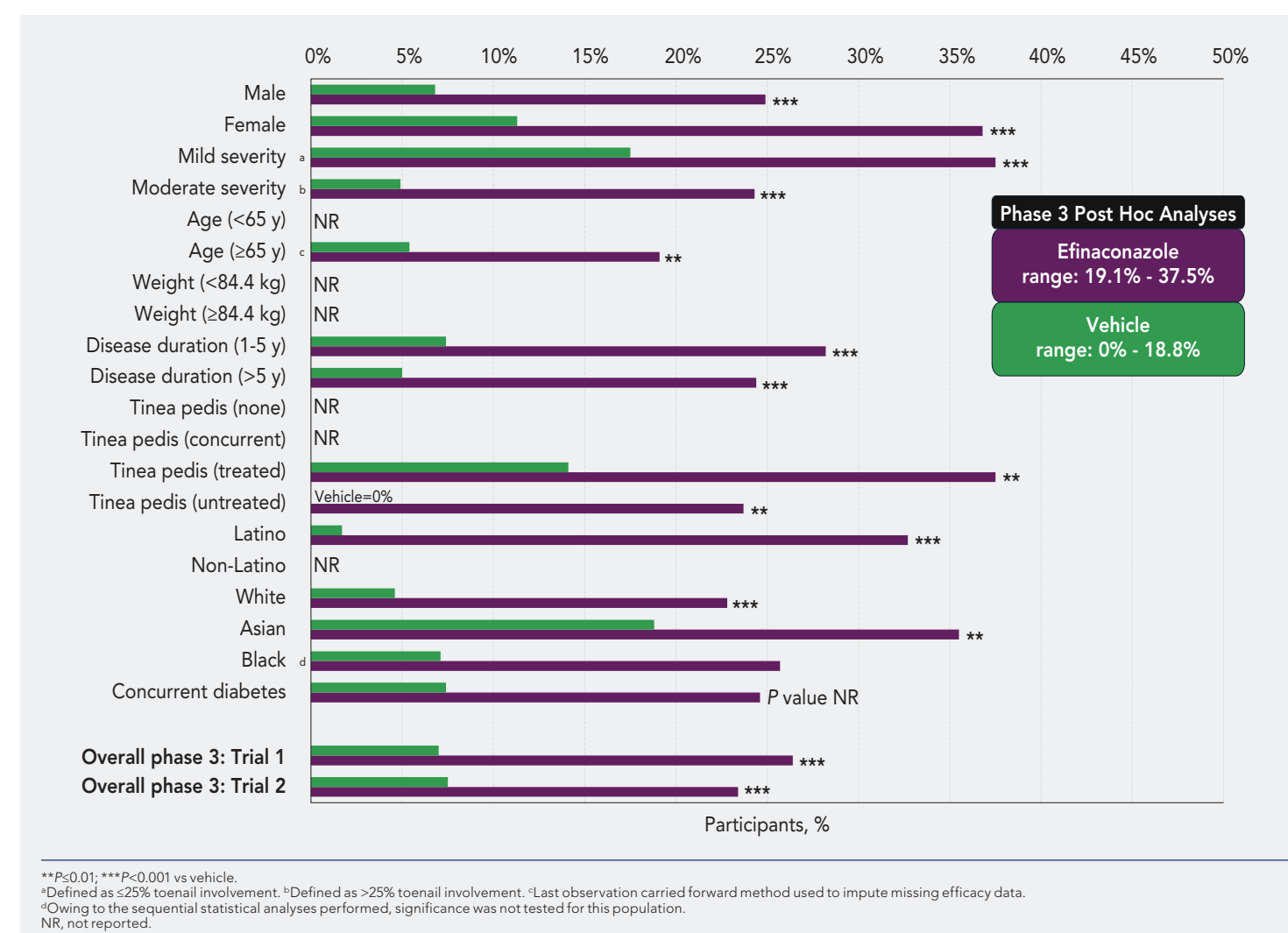


FIGURE 3. Mycologic Cure at Week 52 by Subgroup

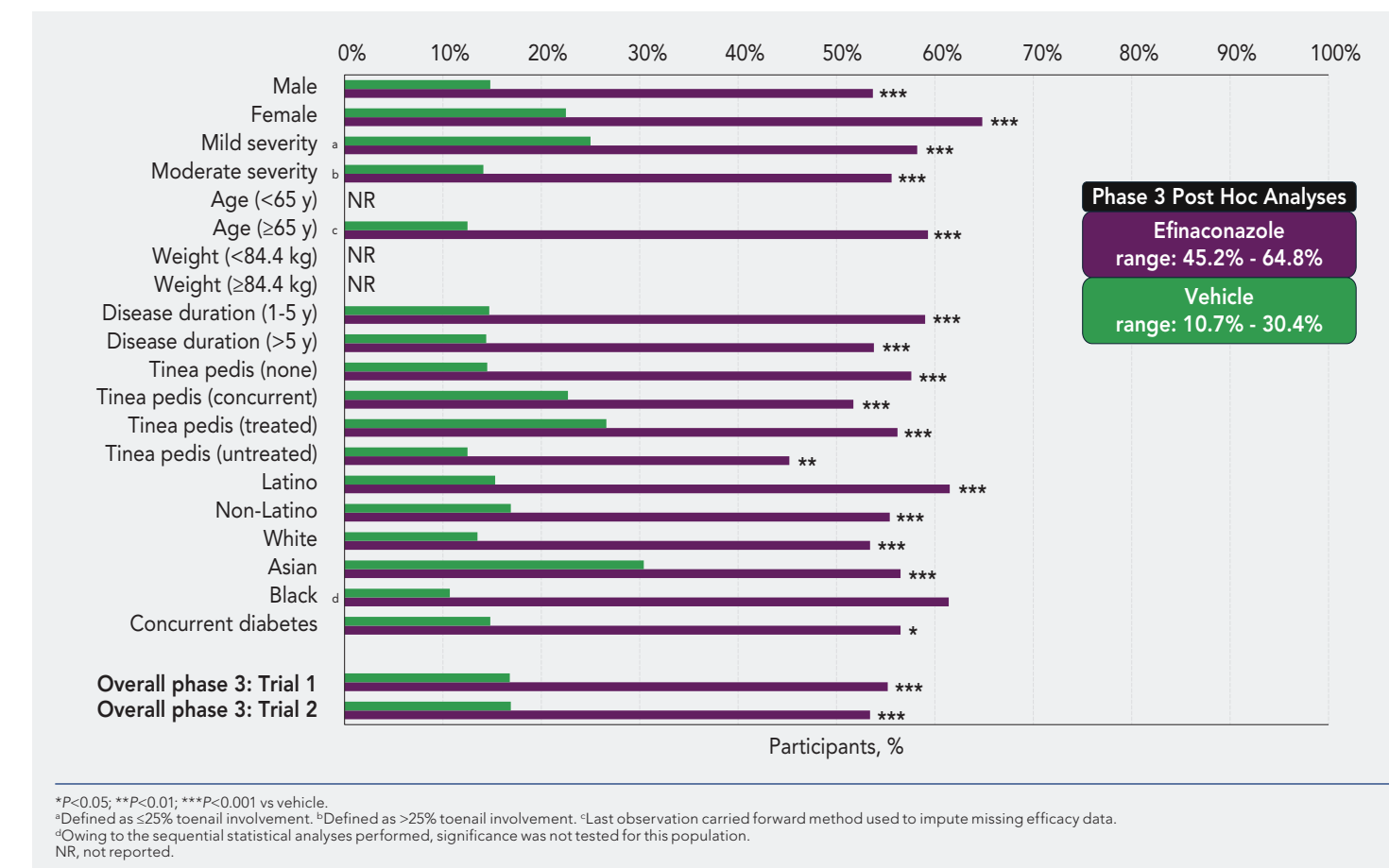


TABLE 1. Efinaconazole Phase 3 Post Hoc Efficacy Analysis Populations

Subgroup	Efinaconazole 10%, n	Vehicle, n
<b>Sex<sup>a,5,6</sup></b>		
Male	944	274
Female	314	85
<b>Severity<sup>a</sup></b>		
Mild: ≤25% involvement <sup>7</sup>	311	103
Moderate: >25% involvement <sup>7</sup>	925	312
Mild: ≤33% involvement <sup>5</sup>	434	131
Moderate: >33% involvement <sup>5</sup>	628	212
<b>Age</b>		
<65 y <sup>a,5</sup>	922	294
≥65 y <sup>5,11</sup>	140 <sup>a</sup> / 162 <sup>b</sup>	49 <sup>a</sup> / 56 <sup>b</sup>
<b>Weight<sup>a,5</sup></b>		
<84.4 kg	543	165
≥84.4 kg	517	176
<b>Disease duration<sup>a,8</sup></b>		
1-5 y	512	170
>5 y	576	194
<b>Tinea pedis<sup>b,9</sup></b>		
None	833	255
Concurrent	229	88
Treated	136	44
Untreated	93	24
<b>Ethnicity (self-reported)<sup>a,10</sup></b>		
Latino	193	77
Non-Latino	1042	338
<b>Race (self-reported)<sup>b,12</sup></b>		
White	947	304
Asian <sup>c</sup>	200	69
Black/African American	70	28
<b>Concurrent diabetes<sup>a,4</sup></b>	82	30

## Safety

- Adverse event (AE) and discontinuation rates with efinaconazole were reported in 5 analyses (9 subgroups) and 6 analyses (11 subgroups), respectively (Table 2)
  - AE rates with efinaconazole ranged from 54.3%-71.3%, and discontinuations due to AEs were low (range: 0%-5.5%)
  - These rates were in line with those of the overall populations<sup>3</sup>

TABLE 2. Adverse Events and Discontinuations Through Week 52 by Subgroup

Subgroups	AEs/TEAEs, %		Discontinuations, %	
	Efinaconazole 10%	Vehicle	Efinaconazole 10%	Vehicle
Male <sup>a</sup>	63.5	NR	2.5	NR
Female <sup>a</sup>	71.3	NR	2.8	NR
Mild <sup>a,b</sup>	69.3	NR	1.0	NR
Moderate <sup>a,c</sup>	63.9	NR	3.2	NR
Age (≥65 y) <sup>d</sup>	67.9	75.0	4.3	1.8
Latino	NR	NR	1.6	NR
Non-Latino	NR	NR	2.8	NR
White <sup>d</sup>	65.7	58.6	2.1	0.3
Asian <sup>d</sup>	65.5	69.6	5.5	0
Black <sup>d</sup>	54.3	46.4	0	0
Concurrent diabetes <sup>a</sup>	64.2	66.7	2.5	NR
<b>Overall phase 3 populations<sup>a</sup></b>	<b>66.0</b>	<b>61.0</b>	<b>3.2</b>	<b>0.5</b>
	64.5	58.5	1.9	0

<sup>a</sup>Reported as at least 1 AE or TEAE.  
<sup>b</sup>Defined as ≤25% toenail involvement.  
<sup>c</sup>Defined as >25% toenail involvement.  
<sup>d</sup>Reported as any AE or TEAE.  
AE, adverse event; NR, not reported; TEAE, treatment-emergent adverse event.

## CONCLUSIONS

- Once-daily topical efinaconazole 10% solution demonstrated generally similar efficacy and safety to the overall phase 3 trials in multiple populations with onychomycosis, including those who may be more difficult to treat, such as older patients and those with greater disease severity<sup>1</sup>

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## AUTHOR DISCLOSURES

Ted Rosen has served as consultant for Ortho Dermatologics. Aditya K. Gupta has served as consultant, speaker, and investigator for Ortho Dermatologics. Linda Stein Gold has served as investigator, consultant, or speaker for AbbVie, Arcutis, Dermavant, Inocyte, LEO Pharma, Lilly, Novartis, Ortho Dermatologics, Pfizer, Sun Pharma, and UCB. Leon H. Kircik has served as consultant, speaker, advisor or investigator for Allergan, Almirall, EPI Health, Galderma, Novartis, Ortho Dermatologics, and Sun Pharma. Tracey C. Vlahovic has served as investigator and speaker for Ortho Dermatologics. Eric Guenin is an employee of Ortho Dermatologics and may hold stock and/or stock options in its parent company. Shari R. Lipner has served as a consultant for BelleTorus Corporation and Moberg Pharmaceuticals. Fran E. Cook-Bolden has served as advisor, served as investigator, and served on speakers' bureaus for AbbVie, Acclaris, Almirall, Cassiopea, Cutanea, Dermavant, Encore, Foamix, Galderma, Hovione, LEO Pharma, and Ortho Dermatologics. Boni Elewski has provided clinical research support (research funding to University) for AbbVie, Anaptys-Bio, Boehringer Ingelheim, Bristol-Myers Squibb, Celgene, Inocyte, LEO Pharma, Lilly, Menlo, Merck, Novartis, Ortho Dermatologics, Pfizer, Regeneron, Sun Pharma, Vanda; and served as consultant for/received honorarium from Boehringer Ingelheim, Bristol-Myers Squibb, Celgene, LEO Pharma, Lilly, Menlo, Novartis, Ortho Dermatologics, Pfizer, Sun Pharma, and Verrica.