Deucravacitinib in plague psoriasis: 3-year safety and efficacy results from the phase 3 POETYK PSO-1 and PSO-2 trials April W. Armstrong,¹ Mark Lebwohl,² Richard B. Warren,^{3,4} Howard Sofen,^{1,5} Shinichi Imafuku,⁶ Mamitaro Ohtsuki,⁷ Lynda Spelman,⁸ Thierry Passeron,⁹ Kim A. Papp,¹⁰ Renata M. Kisa,¹¹ Victoria Berger,¹¹ Eleni Vritzali,¹¹ Kim Hoyt,¹¹ Matthew J. Colombo,¹¹ Subhashis Banerjee,¹¹ Bruce Strober,¹² Diamant Thaçi,¹³ Andrew Blauvelt¹⁴

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Synopsis

- Tyrosine kinase 2 (TYK2) is an intracellular enzyme that mediates signaling of cytokines (eg, interleukin [IL]-23, IL-12, Type I interferons)
- IL-23 and Type 1 interferons are involved in psoriasis pathogenesis
- Deucravacitinib, an oral, selective, allosteric TYK2 inhibitor, is approved in the US, EU, and other countries for the treatment of adults with moderate-to-severe plaque psoriasis who are candidates for systemic therapy²⁻⁶
- Deucravacitinib uniquely binds to the regulatory domain of TYK2 rather than to the catalytic domain where Janus kinase (JAK) 1,2,3 inhibitors bind^{1,7} (Figure 1), driving its selectivity and representing the first in a new class of oral drugs

Figure 1. Mechanism of action of deucravacitinib



- Two global phase 3 trials, POETYK PSO-1 (NCT03624127) and POETYK PSO-2 (NCT03611751), demonstrated that in patients with moderate to severe plaque psoriasis, deucravacitinib 6 mg once daily (QD) was significantly more efficacious than placebo and apremilast based on the coprimary endpoints of \geq 75% reduction from baseline in the Psoriasis Area and Severity Index (PASI 75) and static Physician Global Assessment score of 0 (clear) or 1 (almost clear) with a \ge 2-point improvement from baseline (sPGA 0/1) at Week 16 and was well tolerated^{8,5}
- Clinical responses were maintained through 52 weeks in patients who received continuous deucravacitinib treatment from Day 1¹⁰
- Patients who completed the POETYK PSO-1 and PSO-2 parent trials could enroll in the ongoing POETYK long-term extension (LTE) (NCT04036435) trial and receive open-label deucravacitinib
- Clinical efficacy was shown to be maintained well through 2 years with no new safety signals compared with Year 1 in deucravacitinib-treated patients who entered the POETYK LTE trial^{11,12}

Objective

• To report the safety and efficacy of deucravacitinib for up to 3 years (Week 148) through the cutoff date (June 15, 2022) in patients with moderate to severe plaque psoriasis who participated in the POETYK PSO-1 and PSO-2 trials

Methods

- POETYK PSO-1 and PSO-2 were global, 52-week, phase 3, double-blind trials that randomized adults with moderate to severe plague psoriasis 1:2:1 to oral placebo, deucravacitinib 6 mg QD, or apremilast 30 mg twice daily (BID) (Figure 2):
- Patients randomized to placebo crossed over to deucravacitinib at Week 16
- Patients randomized to deucravacitinib continued treatment through Week 52
- Patients randomized to apremilast who did not achieve ≥50% reduction from baseline in PASI (PASI 50) (in POETYK PSO-1) or PASI 75 (in POETYK PSO-2) crossed over to deucravacitinib at Week 24
- At Week 52, eligible patients were allowed to enroll in the POETYK LTE trial and receive open-label deucravacitinib 6 mg QD



tinib 6 mg QD, n = 1519. ¹In POETYK PSO-2, patients randomized to deucravacitinib on Day 1 who achieved PASI 75 at Week 24 were rerandomized ho were rerandomized to placebo, upon relapse (±30% loss of Week 24 PASI percent improvement from baseline), they were to cross over to inge error, these patients continued to receive placebo until Week 52. ¹In POETYK PSO-1, patients who responded to apremilitar remained on esponded to apremilist crossed over to placebo and were to cross over to deucravacitinib upon relapse; however, due to a programming error, the Veek 52. ¹Apremiliat vas titrated from 10 mg QD to 30 mg BID over the first 5 days of dosing. ¹, long-term extension; PASI, Psoriasis Area and Severity Index; PASI 75, ±75% reduction from baseline In PASI; QD, once daily; sPGA, static Physiciar vacitinib; however, due to a programming e ilast. In POETYK PSO-2, patients who respon

Analysis populations

- Safety population: pooled parent trials (POETYK PSO-1 and PSO-2) and the POETYK LTE trial over 3 years in the as-treated population (patients receiving ≥ 1 dose of deucravacitinib)
- Adverse events (AEs) were ascribed to the treatment group that patients were assigned to when the event first occurred
- Efficacy population: pooled parent trial (POETYK PSO-1 and PSO-2) patients who received continuous deucravacitinib treatment from Day 1 of the parent trials through Week 148

Outcomes

- Safety outcomes: AEs, serious AEs (SAEs), deaths, AEs leading to treatment discontinuation, and AEs of interest through the last data cutoff date of June 15, 2022
- Efficacy outcomes: achievement of PASI 75, \geq 90% reduction from baseline in PASI (PASI 90), and sPGA 0/1

Statistical analysis

- Analyses of efficacy measures were conducted through the data cutoff date of June 15, 2022 (Week 148)
- Two methods for imputation of missing data were used as sensitivity analyses in addition to observed values:
- Treatment failure rules (TFR)¹³: patients who discontinued treatment due to lack of efficacy or worsening of psoriasis were imputed as nonresponders; all other missing data were not imputed
- Modified nonresponder imputation (mNRI)¹⁴: patients who either discontinued prior to Week 148 or reached Week 148 were included; patients with missing data who discontinued treatment due to worsening of psoriasis were imputed as nonresponders; all other missing data were imputed by multiple imputation
- Safety data were reported as exposure-adjusted incidence rate (EAIR) per 100 person-years (PY) and calculated as 100 * (number of patients with an AE)/ (total exposure time for all patients at risk [time to initial AE occurrence for patients with AE + total exposure time for patients without AE])

Results

Patients

- A total of 1519 patients received ≥1 dose of deucravacitinib across the parent trials (POETYK PSO-1 and PSO-2) and the POETYK LTE trial
- 843 patients were randomized to deucravacitinib on Day 1 and, of these, 513 patients were continuously treated with deucravacitinib, completed POETYK PSO-1 and PSO-2, and entered the POETYK LTE trial
- Baseline patient demographics and disease characteristics for the overall population are presented in Table 1

Exposure

• Exposure data through 36 months is shown in Table 2

Parameter	Patients receiving continuous deucravacitinib ^a (n = 513)
Age, mean (SD), y	46.9 (13.3)
Weight, mean (SD), kg	89.9 (22.2)
Female, n (%)	159 (31.0)
Race, n (%)	
White	440 (85.8)
Asian	64 (12.5)
Black or African American	5 (1.0)
Other	4 (0.8)
Age at disease onset, mean (SD), y	29.0 (14.7)
Disease duration, mean (SD), y	18.8 (12.6)
PASI score, mean (SD)	21.1 (7.9)
sPGA score, n (%)	
3 (moderate)	401 (78.2)
4 (severe)	112 (21.8)
BSA involvement, mean (SD), %	26.9 (15.8)

Table 2. Extent of exposure to deucravacitinib

Exposure	Deucravacitinib 6 mg QD (n = 1519)			
≥1 dose, n (%)	1519 (100)			
≥16 weeks of exposure, n (%)	1407 (92.6)			
>12 months of exposure, n (%)	1178 (77.6)			
>24 months of exposure, n (%)	1029 (67.7)			
>36 months of exposure, n (%)	341 (22.4)			
Total exposure, PY	3294.3			
Median (min, max) exposure, days	935.0 (1, 1467)			
This represents the popled PDETYK PSO-1, PSO-2, and LTE population through the cutoff date of June 15, 2022.				

Overall safety

- consistent with rates observed through 2 years

AEs of interest

(as-treated population)

	Cumulative through 2 years ^a (POETYK PSO-1 + PSO-2 + LTE)		Cumulative through 3 years ^b (POETYK PSO-1 + PSO-2 + LTE)			
	Deucravacitinib (n = 1519) Total PY = 2482,0		Deucravacitinib (n = 1519) Total PY = 3294.3			
AE category	2-Year cumulative nª (%)	EAIR/100 PY (95% Cl)	3-Year cumulative n⁵ (%)	EAIR/100 PY (95% CI)		
AEs	1214 (79.9)	154.4 (146.0-163.4)	1269 (83.5)	144.8 (137.1-153.0)		
SAEs	145 (9.5)	6.1 (5.2-7.2)	167 (11.0)	5.5 (4.7-6.4)		
Discontinued treatment due to AEs	69 (4.5)	2.8 (2.2-3.5)	78 (5.1)	2.4 (2.0-3.0)		
Deaths	10 (0.7) ^c	0.4 (0.2-0.7)	10 (0.7) ^d	0.3 (0.2-0.6)		
Most common AEs (EAIR/100 PY ≥5)						
Nasopharyngitis	271 (17.8)	12.9 (11.5-14.5)	302 (19.9)	11.4 (10.2-12.7)		
COVID-19 ^e	124 (8.2)	5.1 (4.3-6.1)	242 (15.9)	8.0 (7.1-9.1)		
Upper respiratory tract infection	150 (9.9)	6.5 (5.6-7.7)	182 (12.0)	6.2 (5.4-7.2)		
on all patients were reaching deucranactinitis 6 mg QD continuously throughout this period. Total PY corresponds to the total exposure time to deucranactinitis during the indicated time period. "This presents the pooled POFTW PSO-1, PSO-2, and UTE population through the cutoff date of October 1, 2021. "This represents the pooled POETW PSO-1, PSO-2, and UTE population through the cutoff take of October 1, 2021. "This represents the pooled POETW PSO-1, PSO-2, and UTE population through the cutoff ate of Dectober 1, 2021. "This represents the pooled POETW PSO-1, PSO-2, and UTE population through the cutoff take of October 1, 2021. "This represents the pooled POETW PSO-1, PSO-2, and UTE population through the cutoff text Junc 15,1022. "Life Dectober 2015" and VEE Dectober 2015" and VEE Dectober 2016" and PSO-1000" and Dectober 2016" and De						

Table 1. Baseline patient demographics and disease characteristics for the

LTE, long-term extension; min, max, minimum, maximum; PY, person-years; QD, daily

• Overall cumulative safety outcomes through 2 and 3 years are presented in Table 3

• Aside from a slightly higher COVID-19 rate, AE rates through 3 years remained

• The incidence rates for major adverse cardiovascular events (MACE) and malignancies were low and were comparable through 2 and 3 years (Table 4)

No venous thromboembolism (VTE) events or lymphoma were observed in Year 3

Table 3. Cumulative safety summary through 2 years and 3 years

Table 4. Cumulative AEs of interest through 2 years and 3 years (as-treated population)

	Cumulative through 2 years ^a (POETYK PSO-1 + PSO-2 + LTE) Deucravacitinib (n = 1519) Total PY = 2482.0		Cumulative through 3 years ^b (POETYK PSO-1 + PSO-2 + LTE) Deucravacitinib (n = 1519) Total PY = 3294.3			
AE category	2-Year cumulative nª (%)	EAIR/100 PY (95% CI)	3-Year cumulative n ^b (%)	EAIR/100 PY (95% CI)		
Serious infections	64 (4.2)	2.6 (2.0-3.3)	77 (5.1)	2.5 (2.0-3.1)		
Herpes zoster						
Herpes zoster ^c	17 (1.1)	0.7 (0.4-1.1)	19 (1.3)	0.6 (0.4-0.9)		
Ophthalmic herpes zoster ^d	1 (0.1)	0 (0.0-0.3)	1 (0.1)	0 (0.0-0.2)		
COVID-19						
Serious COVID-19	30 (2.0)	1.2 (0.8-1.7)	37 (2.4)	1.2 (0.8-1.6)		
Serious COVID-19 pneumonia	13 (0.9)	0.5 (0.3-0.9)	14 (0.9)	0.4 (0.3-0.7)		
MACE ^e	9 (0.6)	0.4 (0.2-0.7)	11 (0.7)	0.3 (0.2-0.6)		
VTE ^r	3 (0.2)	0.1 (0.0-0.4)	3 (0.2)	0.1 (0.0-0.3)		
Malignancies	22 (1.4)	0.9 (0.6-1.3)	28 (1.8)	0.9 (0.6-1.3)		
NMSC	11 (0.7)	0.4 (0.2-0.8)	14 (0.9)	0.4 (0.3-0.7)		
Basal cell carcinoma	8 (0.5)	0.3 (0.2-0.6)	10 (0.7)	0.3 (0.2-0.6)		
Squamous cell carcinoma ^g	4 (0.3)	0.2 (0.1-0.4)	4 (0.3)	0.1 (0.0-0.3)		
Malignancies excluding NMSC	12 (0.8)	0.5 (0.3-0.8)	15 (1.0) ^h	0.5 (0.3-0.8)		
Lymphoma	3 (0.2)	0.1 (0.0-0.4)	3 (0.2)	0.1 (0.0-0.3)		
Hodgkin's disease	1 (0.1)	0 (0.0-0.3)	1 (0.1)	0 (0.0-0.2)		
Leukemia	1 (0.1)	0 (0.0-0.3)	1 (0.1)	0 (0.0-0.2)		
Skin events						
Acne	38 (2.5)	1.6 (1.1-2.1)	41 (2.7)	1.3 (1.0-1.8)		
Folliculitis	32 (2.1)	1.3 (0.9-1.8)	34 (2.2)	1.1 (0.8-1.5)		
Oral ulcers	34 (2.2)	1.4 (1.0-1.9)	37 (2.4)	1.2 (0.8-1.6)		
t all patients were receiving deucravacitinib 6 mg QD continuously throughout this period. Total PY corresponds to the total exposure time to deucravacitinib during the indicated time period. "This presents the pooled POETVR FSO-1, PSO-2, and LTE population through the cutoff date of October 1, 2021. "This regressions the pooled POETVR FSO-1, PSO-2, and LTE population through the cutoff date of net 5, 2022. "Doe patient who was coded as having period more process related to herpes virus infection diagnosed by an ophthalmologist with a positive qualitative thicknerox virus tigen (epithelial cells). "One patient who was coded as having ophthalmic herpes zoster with swelling of eyelds was referred for ophthalmology consultation, which was noted as normal; there was no						

Efficacy

• The proportion of patients who achieved PASI 75, PASI 90, and sPGA 0/1 was sustained well from Week 52 (beginning of the POETYK LTE trial) through Week 148 (Figure 3, Figure 4, and Figure 5, respectively)

- The response rates were comparable using as-observed, TFR, or mNRI imputation methods

Figure 3. PASI 75 response rates with continuous deucravacitinib treatment from Day 1 to 3 years







Figure 5. sPGA 0/1 response rates with continuous deucravacitinib treatment from Day 1 to 3 years



Conclusions

- Deucravacitinib demonstrated a consistent safety profile through 3 years with no increases in AE or SAE rates over time and no emergence of any new safety signals
- Efficacy was sustained through 3 years in patients treated continuously with deucravacitinib from Day 1 in the parent trials
- Clinical efficacy outcomes, including PASI 75, PASI 90, and sPGA 0/1, were sustained in patients who were continuously treated with deucravacitinib from baseline through Week 148
- Efficacy results were consistent across several data imputation methods including observed values, TFR, and mNRI
- These findings provide additional support for the consistent safety profile and durable efficacy of deucravacitinib, the first of a new class of TYK2 inhibitor, through 3 years

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andemic. e interval; EAIR, exposure-adjusted incidence rate; LTE, long-term extension; PY, person-years; QD, once daily; SAE, serious adverse event

