

# Deucravacitinib in plaque psoriasis: 4-year safety and efficacy results from the phase 3 POETYK PSO-1, PSO-2, and LTE trials

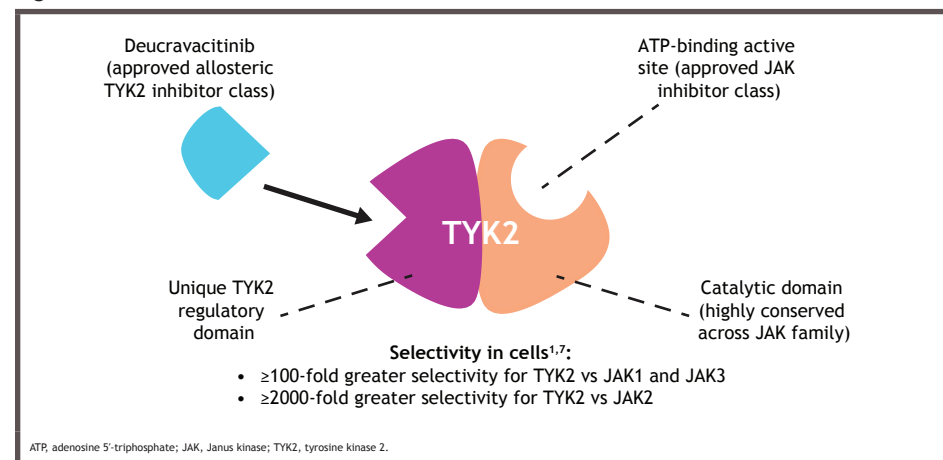
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## Introduction

- Tyrosine kinase 2 (TYK2) is an intracellular enzyme that mediates signaling of select inflammatory cytokines (eg, interleukin [IL]-23, IL-12, Type I interferons [IFNs])<sup>1</sup>
  - IL-23 and Type I IFNs are involved in psoriasis pathogenesis<sup>1</sup>
- 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 therapy<sup>2-4</sup>
- Deucravacitinib uniquely binds to the TYK2 regulatory domain rather than to the catalytic domain where Janus kinase (JAK) 1,2,3 inhibitors bind<sup>1,7</sup> (Figure 1), driving its selectivity for TYK2 and representing the first in a new class of oral drugs

Figure 1. Mechanism of action of deucravacitinib



- Two global, 52-week, phase 3 trials, POETYK PSO-1 (NCT03624127) and POETYK PSO-2 (NCT03611751), in patients with moderate to severe plaque psoriasis showed that deucravacitinib 6 mg once daily (QD) was well tolerated and was significantly more efficacious than placebo and apremilast at Week 16 based on the key endpoints<sup>8,9</sup>:
  - PASI 75 (≥75% reduction from baseline in Psoriasis Area and Severity Index)
  - sPGA 0/1 (static Physician Global Assessment score of 0 [clear] or 1 [almost clear])
- Patients who completed the POETYK PSO-1 and PSO-2 parent trials could enroll in the ongoing POETYK long-term extension (LTE) trial (NCT04036435) and receive open-label deucravacitinib
- Clinical efficacy was previously reported to be maintained well through 3 years, with no new safety signals compared with Year 2, in deucravacitinib-treated patients who entered the POETYK LTE trial<sup>10,11</sup>

## Objective

To report the safety and efficacy of deucravacitinib for an additional year through 4 years (Week 208; cutoff date, November 1, 2023) in patients with moderate to severe plaque psoriasis who participated in the POETYK PSO-1, PSO-2, and LTE trials

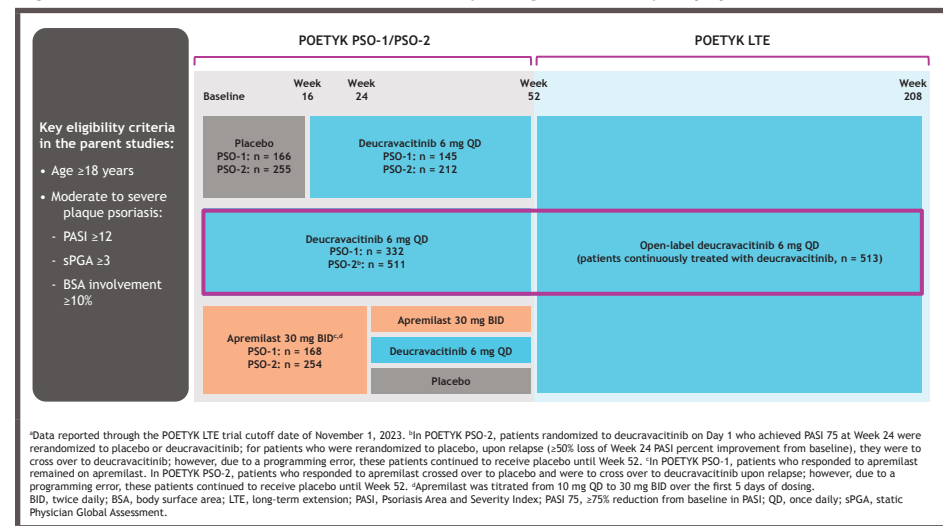
## Methods

### Study designs

- In the POETYK PSO-1 and PSO-2 trials, adults with moderate to severe plaque psoriasis (PASI ≥12, sPGA ≥3, and body surface area involvement ≥10% at baseline) were randomized 1:2:1 to oral placebo, deucravacitinib 6 mg QD, or apremilast 30 mg twice daily (BD) (Figure 2)

- At Week 52, eligible patients were allowed to enroll in the POETYK LTE trial and receive open-label deucravacitinib 6 mg QD

Figure 2. POETYK PSO-1, PSO-2, and LTE study designs and analysis populations<sup>a</sup>



### Analysis populations

- Safety population:** patients receiving ≥1 dose of deucravacitinib at any time in the pooled parent (POETYK PSO-1 and PSO-2) and POETYK LTE trials over 4 years in the as-treated population
  - Adverse events (AEs) were ascribed to the assigned treatment when the event first occurred
- Efficacy population:** patients from the pooled parent trials (POETYK PSO-1 and PSO-2) who received continuous deucravacitinib treatment from Day 1 of the parent trials through Week 208

## Outcomes

- Safety outcomes: AEs, serious AEs (SAEs), deaths, AEs leading to treatment discontinuation, and AEs of interest through the last data cutoff date of November 1, 2023
- Efficacy outcomes: achievement of PASI 75, ≥90% reduction from baseline in PASI (PASI 90), 100% reduction from baseline in PASI (PASI 100), sPGA 0/1, and sPGA 0

## Statistical analysis

- Efficacy and safety were analyzed through the data cutoff date of November 1, 2023 (Week 208, 4 years)
- Safety data were reported as exposure-adjusted incidence rate (EAIR)/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])
- In addition to observed values, two methods of imputation for missing data were used as sensitivity analyses for efficacy
  - Treatment failure rules (TFR)<sup>12</sup>: 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)<sup>13</sup>: patients who either discontinued prior to Week 208 or reached Week 208 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

## Results

### Patients

- Baseline demographics and disease characteristics for patients who received continuous deucravacitinib from Day 1 (n = 513) are presented in Table 1

Table 1. Baseline patient demographics and disease characteristics for the efficacy population

Parameter	Patients receiving continuous deucravacitinib <sup>a</sup> (n = 513)	
	Deucravacitinib (n = 1364) Total PY = 969.0	Deucravacitinib (n = 1519) Total PY = 4392.8
Age, mean (SD), y	46.9 (13.3)	46.9 (13.3)
Weight, mean (SD), kg	89.9 (22.2)	89.9 (22.2)
Body mass index, mean (SD), kg/m <sup>2</sup>	30.3 (7.0)	30.3 (7.0)
Female, n (%)	159 (31.0)	159 (31.0)
Race, n (%)		
White	440 (85.8)	440 (85.8)
Asian	64 (12.5)	64 (12.5)
Black or African American	5 (1.0)	5 (1.0)
Other	4 (0.8)	4 (0.8)
Disease duration, mean (SD), y	18.8 (12.6)	18.8 (12.6)
Prior systemic therapy, n (%)	300 (58.5)	300 (58.5)
Prior systemic biologic	191 (37.2)	191 (37.2)
Prior systemic non-biologic	206 (40.2)	206 (40.2)
Systemic therapy naive, n (%)	213 (41.5)	213 (41.5)
PASI score, mean (SD)	21.1 (7.9)	21.1 (7.9)
sPGA score, n (%)		
3 (moderate)	401 (78.2)	401 (78.2)
4 (severe)	112 (21.8)	112 (21.8)
BSA involvement, mean (SD), %	26.9 (15.8)	26.9 (15.8)

<sup>a</sup>Randomized to deucravacitinib in the parent trials and entering the POETYK LTE trial. BSA, body surface area; PASI, Psoriasis Area and Severity Index; SD, standard deviation; sPGA, static Physician Global Assessment.

### Deucravacitinib exposure

- Exposure data through 4 years are shown in Table 2

Table 2. Deucravacitinib exposure of the safety population through Week 208 (4 years)

Exposure	Deucravacitinib 6 mg QD (n = 1519)
Total exposure, PY	4392.8
Median (min, max) exposure, days	1290.0 (1, 1893)
≥24 months of exposure, n (%)	1407 (92.6)
≥12 months of exposure, n (%)	1203 (79.2)
≥24 months of exposure, n (%)	1050 (69.1)
≥36 months of exposure, n (%)	906 (59.6)
≥48 months of exposure, n (%)	542 (35.7)

This represents the pooled POETYK PSO-1, PSO-2, and LTE population through the cutoff date of November 1, 2023. LTE, long-term extension; min, maximum; n, number; n (%), percentage; QD, once daily.

### Overall safety

- A cumulative safety summary is presented in Table 3
- Aside from higher rates of COVID-19 due to the concurrent global pandemic, incidence rates of AEs (EAIR = n/100 PY) decreased from 1 year to 4 years

Table 3. Cumulative safety summary through 1 year and 4 years (as-treated population)

AE category	Cumulative through 1 year <sup>a</sup> (POETYK PSO-1 + PSO-2)		Cumulative through 4 years <sup>b</sup> (POETYK PSO-1 + PSO-2 + LTE)	
	Deucravacitinib (n = 1364) Total PY = 969.0	EAIR/100 PY (95% CI)	Deucravacitinib (n = 1519) Total PY = 4392.8	EAIR/100 PY (95% CI)
AEs	995 (72.9)	229.2 (215.4-243.9)	1301 (85.6)	131.7 (124.6-139.0)
SAEs	55 (4.0)	5.7 (4.4-7.4)	203 (13.5)	5.0 (4.4-5.8)
Discontinued treatment due to AEs	43 (3.2)	4.4 (3.3-5.9)	97 (6.4)	2.2 (1.8-2.7)
Deaths	2 (0.1) <sup>c</sup>	0.2 (0.1-0.8)	11 (0.7) <sup>d</sup>	0.3 (0.1-0.4)
Most common AEs (EAIR ≥5/100 PY)				
Nasopharyngitis	229 (16.8)	26.1 (23.0-29.8)	343 (22.6)	9.7 (8.7-10.8)
Upper respiratory tract infection	124 (9.1)	13.4 (11.3-16.0)	240 (15.8)	6.1 (5.4-6.9)
Headache	80 (5.9)	8.5 (6.8-10.5)	117 (7.7)	2.8 (2.3-3.4)
Diarrhea	69 (5.1)	7.3 (5.7-9.2)	99 (6.5)	2.4 (1.9-2.9)
Arthralgia	55 (4.0)	5.7 (4.4-7.4)	117 (7.7)	2.8 (2.3-3.4)
COVID-19 <sup>e</sup>	5 (0.4)	0.5 (0.1-1.2)	321 (21.1)	8.7 (8.4-9.3)

<sup>a</sup>Not 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. <sup>b</sup>This represents the pooled parent population of POETYK PSO-1, PSO-2, and LTE population through the cutoff date of November 1, 2023. <sup>c</sup>In POETYK PSO-1 and PSO-2 trials, patients who discontinued treatment due to AEs were considered unrelated to treatment by the investigator. One patient died due to COVID-19 in patients with respiratory tract infection and liver cirrhosis. Both deaths were considered unrelated to treatment by the investigator. <sup>d</sup>7 deaths were due to COVID-19 in all patients with respiratory tract infection due to a nasopharyngeal adenovirus, which was considered unrelated to treatment by the investigator. One patient died due to sudden death, which was considered not related to treatment by the investigator. <sup>e</sup>COVID-19 was considered unrelated to treatment by the investigator. One patient died due to COVID-19 in patients with respiratory tract infection due to a nasopharyngeal adenovirus, which was considered unrelated to treatment by the investigator. One patient died due to sudden death, which was considered not related to treatment by the investigator. AE, adverse event; CI, confidence interval; EAIR, exposure-adjusted incidence rate; LTE, long-term extension; n (%), number; n (%), percentage; QD, once daily; SAE, serious adverse event.

## AEs of interest

- The EAIRs of AEs of interest from the 4-year cumulative period (Table 4) remained comparable to findings from long-term clinical safety studies, disease registries, and real-world claims data of other approved psoriasis treatments
- The rate of serious infections was higher at 4 years than at 1 year; the peak of the global COVID-19 pandemic occurred during Years 2 and 3 of the POETYK LTE trial
  - When COVID-19 was excluded from the 4-year analysis, the rate of serious infections was lower at 4 years (EAIR/100 PY [95% confidence interval (CI)], 0.8 [0.6-1.1])
  - The rate of serious infections with COVID-19 excluded was comparable to long-term clinical safety studies of other psoriasis treatments (0.97-1.1/100 PY)
- The rate of herpes zoster decreased from Year 1 to Year 4
- Incidence rates for adjudicated major adverse cardiovascular events (MACE) were low and comparable through 1 year and 4 years
  - Rates of MACE with deucravacitinib treatment through 4 years were comparable to long-term clinical safety studies of other psoriasis treatments (0.3-0.4/100 PY)
- Incidence rates for malignancies were low and comparable through 1 year and 4 years
  - The rate of malignancy (excluding non-melanoma skin cancer [NMSC]) with deucravacitinib through 4 years was consistent with other trials (0.4-0.6/100 PY)
  - The rate of NMSC in patients treated with deucravacitinib was consistent with other trials (0.3-0.5/100 PY), and the ratio of basal cell to squamous cell carcinoma remained at least 2:1
- No venous thromboembolism (VTE) or lymphoma events were observed in Year 3 or Year 4

Table 4. Cumulative AEs of interest through 1 year and 4 years (as-treated population)

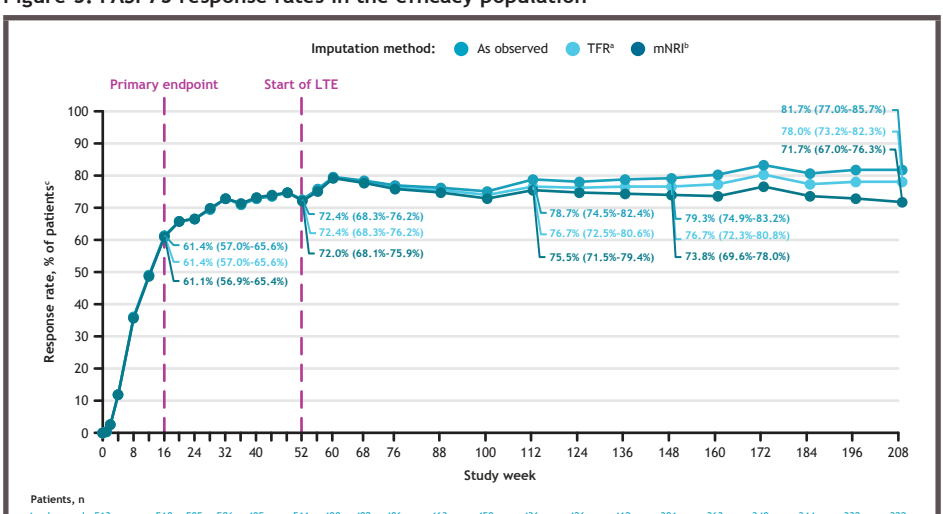
AE category	Cumulative through 1 year <sup>a</sup> (POETYK PSO-1 + PSO-2)		Cumulative through 4 years <sup>b</sup> (POETYK PSO-1 + PSO-2 + LTE)	
	Deucravacitinib (n = 1364) Total PY = 969.0	EAIR/100 PY (95% CI)	Deucravacitinib (n = 1519) Total PY = 4392.8	EAIR/100 PY (95% CI)
Serious infections	17 (1.2)	1.7 (1.1-2.8)	85 (5.6)	2.0 (1.6-2.5)
Serious COVID-19 infections				
Serious COVID-19	2 (0.1)	0.2 (0.1-0.8)	38 (2.5)	0.9 (0.6-1.2)
Serious COVID-19 pneumonia	0	0	16 (1.1)	0.4 (0.2-0.6)
Herpes zoster (non-serious)				
Herpes zoster <sup>c</sup>	8 (0.6)	0.8 (0.4-1.6)	24 (1.6)	0.6 (0.4-0.8)
Ophthalmic herpes zoster <sup>d</sup>	1 (0.1)	0.1 (0.0-0.7)	1 (0.1)	0.0 (0.0-0.1)
MACE <sup>e</sup>	3 (0.2)	0.3 (0.1-0.9)	14 (0.9)	0.3 (0.2-0.5)
VTE <sup>f</sup>	2 (0.1)	0.2 (0.1-0.8)	3 (0.2)	0.1 (0.0-0.2)
Malignancies	10 (0.7)	1.0 (0.5-1.9)	39 (2.6)	0.9 (0.6-1.2)
NMSC	7 (0.5)	0.7 (0.3-1.5)	18 (1.2)	0.4 (0.2-0.7)
Basal cell carcinoma	4 (0.3)	0.4 (0.2-1.1)	13 (0.9)	0.3 (0.2-0.5)
Squamous cell carcinoma <sup>g</sup>	2 (0.1)	0.2 (0.1-0.8)	5 (0.3)	0.1 (0.0-0.3)
Malignancies excluding NMSC	3 (0.2)	0.3 (0.1-0.9)	22 (1.4) <sup>h</sup>	0.5 (0.3-0.8)
Lymphoma	1 (0.1)	0.1 (0.0-0.7)	3 (0.2)	0.1 (0.0-0.2)
Hodgkin's disease	1 (0.1)	0.1 (0.0-0.7)	1 (0.1)	0.0 (0.0-0.1)
Leukemia	0	0	1 (0.1)	0.0 (0.0-0.1)

Not 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. <sup>a</sup>This represents the pooled parent population of POETYK PSO-1, PSO-2, and LTE population through the cutoff date of November 1, 2023. One patient who was coded as having herpes zoster had central/oral disease related to herpes virus infection diagnosed by an ophthalmologist with a positive qualitative chlamydia virus antigen epithelial cells. One patient who was coded as having ophthalmic herpes zoster with swelling of eyelids was referred for ophthalmology consultation, which was noted as benign; there was no central/oral disease related to herpes virus infection. MACE, major adverse cardiovascular event; NMSC, non-melanoma skin cancer; PY, person-years; QD, once daily; VTE, venous thromboembolism. <sup>b</sup>In POETYK PSO-1 and PSO-2 trials, patients who discontinued treatment due to AEs were considered unrelated to treatment by the investigator. One patient died due to COVID-19 in patients with respiratory tract infection and liver cirrhosis. Both deaths were considered unrelated to treatment by the investigator. <sup>c</sup>7 deaths were due to COVID-19 in all patients with respiratory tract infection due to a nasopharyngeal adenovirus, which was considered unrelated to treatment by the investigator. One patient died due to sudden death, which was considered not related to treatment by the investigator. <sup>d</sup>COVID-19 was considered unrelated to treatment by the investigator. One patient died due to COVID-19 in patients with respiratory tract infection due to a nasopharyngeal adenovirus, which was considered unrelated to treatment by the investigator. One patient died due to sudden death, which was considered not related to treatment by the investigator. <sup>e</sup>COVID-19 was considered unrelated to treatment by the investigator. One patient died due to COVID-19 in patients with respiratory tract infection due to a nasopharyngeal adenovirus, which was considered unrelated to treatment by the investigator. One patient died due to sudden death, which was considered not related to treatment by the investigator. <sup>f</sup>COVID-19 was considered unrelated to treatment by the investigator. One patient died due to COVID-19 in patients with respiratory tract infection due to a nasopharyngeal adenovirus, which was considered unrelated to treatment by the investigator. One patient died due to sudden death, which was considered not related to treatment by the investigator. <sup>g</sup>COVID-19 was considered unrelated to treatment by the investigator. One patient died due to COVID-19 in patients with respiratory tract infection due to a nasopharyngeal adenovirus, which was considered unrelated to treatment by the investigator. One patient died due to sudden death, which was considered not related to treatment by the investigator. <sup>h</sup>COVID-19 was considered unrelated to treatment by the investigator. One patient died due to COVID-19 in patients with respiratory tract infection due to a nasopharyngeal adenovirus, which was considered unrelated to treatment by the investigator. One patient died due to sudden death, which was considered not related to treatment by the investigator.

## Efficacy

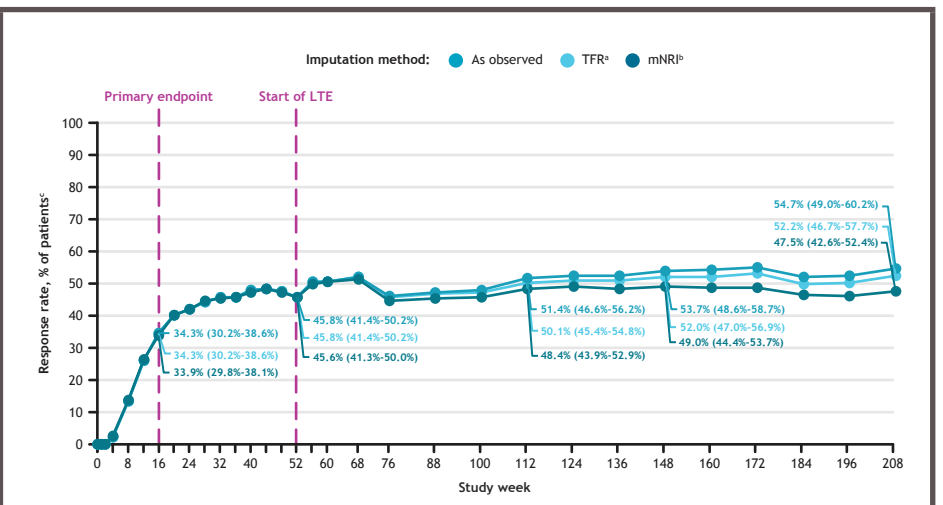
- PASI 75 (Figure 3), PASI 90 (Figure 4), and PASI 100 (Figure 5) response rates were sustained well from Week 52 (beginning of the POETYK LTE trial) through 4 years
- sPGA 0/1 (Figure 6) and sPGA 0 (Figure 7) response rates were sustained well from Week 52 (beginning of the POETYK LTE trial) through 4 years

Figure 3. PASI 75 response rates in the efficacy population



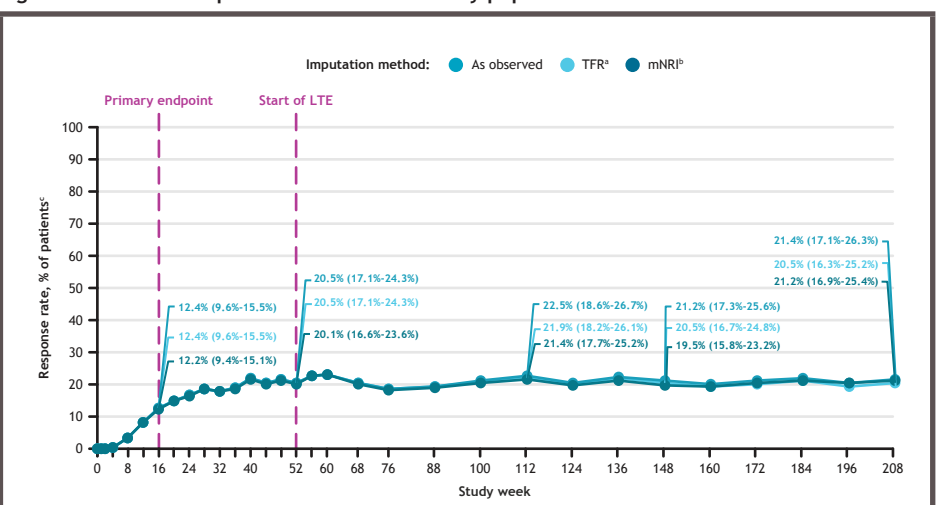
<sup>a</sup>TFR analysis captures discontinuations coded as "lack of efficacy." <sup>b</sup>For mNRI analyses, at timepoints where there were no missing data, 95% CI was obtained using the Clopper-Pearson method based on the observed data. <sup>c</sup>Data callouts represent the response rate (95% CI). <sup>d</sup>CI, confidence interval; LTE, long-term extension; mNRI, modified nonresponder imputation; PASI 75, ≥75% reduction from baseline in Psoriasis Area and Severity Index; TFR, treatment failure rules.

Figure 4. PASI 90 response rates in the efficacy population



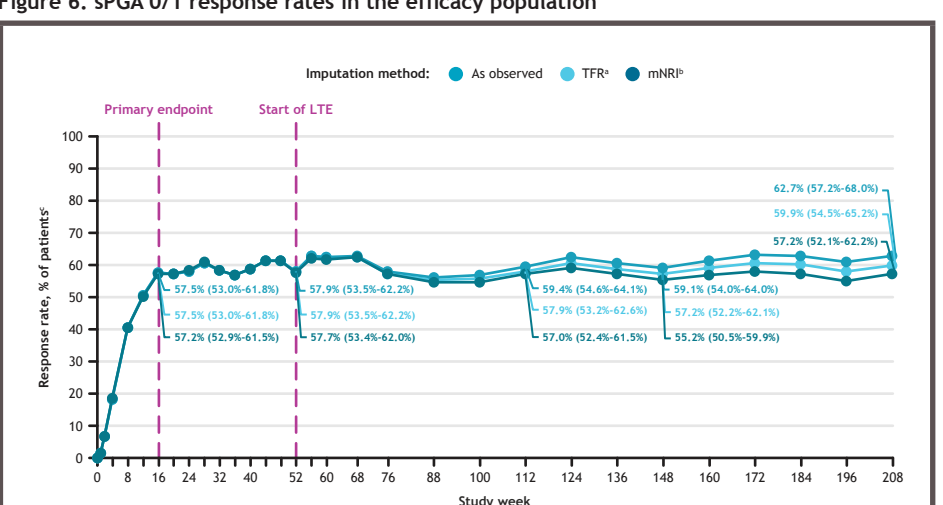
<sup>a</sup>TFR analysis captures discontinuations coded as "lack of efficacy." <sup>b</sup>For mNRI analyses, at timepoints where there were no missing data, 95% CI was obtained using the Clopper-Pearson method based on the observed data. <sup>c</sup>Data callouts represent the response rate (95% CI). <sup>d</sup>CI, confidence interval; LTE, long-term extension; mNRI, modified nonresponder imputation; PASI 90, ≥90% reduction from baseline in Psoriasis Area and Severity Index; TFR, treatment failure rules.

Figure 5. PASI 100 response rates in the efficacy population



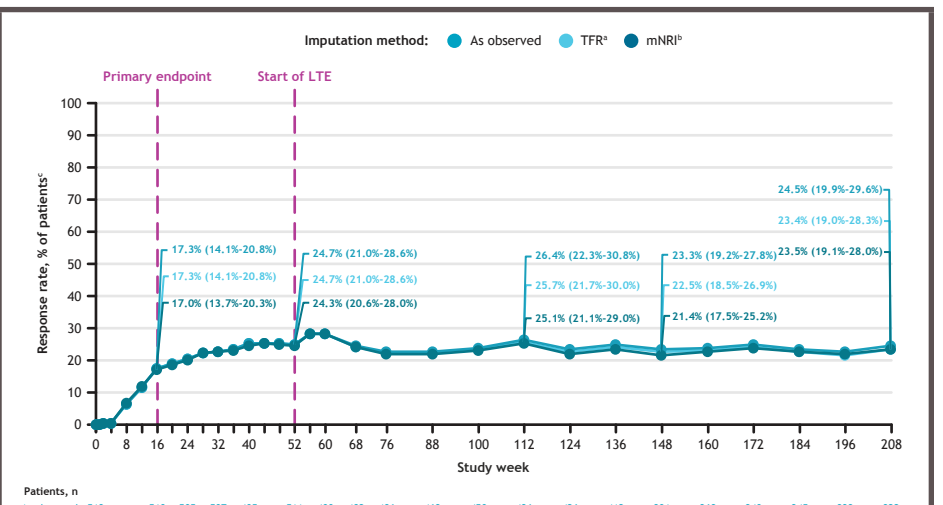
<sup>a</sup>TFR analysis captures discontinuations coded as "lack of efficacy." <sup>b</sup>For mNRI analyses, if there are no missing data, 95% CI was obtained using the Clopper-Pearson method based on the observed data. <sup>c</sup>Data callouts represent the response rate (95% CI). <sup>d</sup>CI, confidence interval; LTE, long-term extension; mNRI, modified nonresponder imputation; PASI 100, 100% reduction from baseline in Psoriasis Area and Severity Index; TFR, treatment failure rules.

Figure 6. sPGA 0/1 response rates in the efficacy population



<sup>a</sup>TFR analysis captures discontinuations coded as "lack of efficacy." <sup>b</sup>For mNRI analyses, at timepoints where there were no missing data, 95% CI was obtained using the Clopper-Pearson method based on the observed data. <sup>c</sup>Data callouts represent the response rate (95% CI). <sup>d</sup>CI, confidence interval; LTE, long-term extension; mNRI, modified nonresponder imputation; sPGA 0/1, static Physician Global Assessment score of 0 (clear) or 1 (almost clear) with a ≥2-point improvement from baseline; TFR, treatment failure rules.

Figure 7. sPGA 0 response rates in the efficacy population



<sup>a</sup>TFR analysis captures discontinuations coded as "lack of efficacy." <sup>b</sup>For mNRI analyses, if there are no missing data, 95% CI was obtained using the Clopper-Pearson method based on the observed data. <sup>c</sup>Data callouts represent the response rate (95% CI). <sup>d</sup>CI, confidence interval; LTE, long-term extension; mNRI, modified nonresponder imputation; sPGA 0, static Physician Global Assessment score of 0 (clear) with a ≥2-point improvement from baseline; TFR, treatment failure rules.

## Conclusions

- Deucravacitinib demonstrated a consistent safety profile through 4 years with ~4000 PY of exposure and with no increases in AE or SAE rates over time and no emergence of any new safety signals, except for increased rates of COVID-19 due to the concurrent global pandemic
- Rates of serious infections (minus COVID-19), malignancies, and MACE through 4 years were comparable with what has been observed with approved psoriasis treatments in clinical trials and real-world databases
- PASI 75, PASI 90, PASI 100, sPGA 0/1, and sPGA 0 responses were sustained through 4 years in over 500 patients treated continuously with deucravacitinib from Day 1 in the parent trials
- These data support the long-term safety and durable efficacy profile through 4 years of treatment with deucravacitinib, a first-in-class TYK2 inhibitor treatment for psoriasis

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