# DKN-01 and Tislelizumab + Chemotherapy as First-line (1L) Investigational Therapy in Advanced Gastroesophageal Adenocarcinoma (GEA): DisTinGuish Trial

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# BACKGROUND

### **Advanced GEA Treatment Landscape**

- Anti-PD-1 antibodies + chemotherapy have recently been approved as first-line therapy in HER2(-) advanced GEA.<sup>1</sup>
- However, benefit remains modest and largely limited to PD-L1(+) patients, primarily those with combined positive score (CPS)  $\geq$ 5.
- Standard of care first-line therapy with chemo + nivolumab had a response rate of 47% and PFS of 7.7 mo.<sup>1</sup>
- In a Phase 2 study, tislelizumab + chemo as first-line therapy for G/GEJ adenocarcinoma had an ORR of 47% and PFS of 6.1 months.<sup>2</sup> A phase 3 study BGB-A317-305 comparing tislelizumab + chemo vs. placebo + chemo as a 1L therapy is ongoing.

### DKN-01 + Tislelizumab

- DKN-01 is a targeted anti-DKK1 mAb that has demonstrated improved clinical outcomes in patients with elevated tumoral DKK1<sup>3</sup>—a subset of patients with more aggressive disease and shorter overall survival.<sup>4</sup>
- Tislelizumab is an anti-PD-1 mAb with high affinity and specificity for PD-1, designed to minimize binding to FcγR on macrophages and thereby potentially avoid antibody-dependent phagocytosis.<sup>2</sup>

# METHODS

# **DisTinGuish Trial (NCT04363801)**

**Design:** Phase 2a single arm 2-part trial

- Part A: First-line DKN-01 300 mg + Tislelizumab + CAPOX in Advanced GEA (reported here)
- Part B: Second-line DKN-01 300 or 600 mg + Tislelizumab in Advanced GEA with High Tumoral DKK1 Expression (reported separately) **Primary objective:** safety and tolerability

Secondary efficacy endpoints: objective response rate (ORR), duration of response (DoR), disease control rate (DCR), progression- free survival (PFS) assessed by investigators and overall survival (OS)

Analysis populations: intent-to-treat (ITT) (safety population) and modified ITT (mITT) (completed >1 dose DKN-01)

**Analysis by Tumoral DKK1 expression:** comparison DKK1-high (H-score ≥35) vs DKK1-low (H-score < 35)

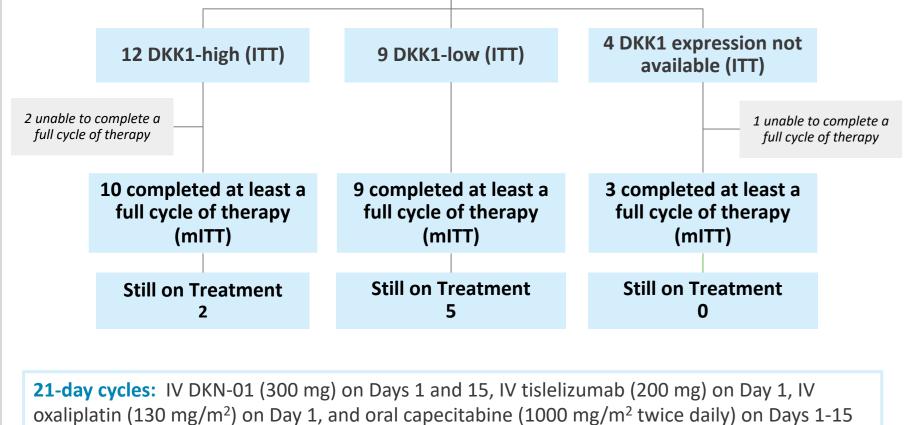
**Tumoral DKK1 mRNA expression:** assessed by a chromogenic *in situ* hybridization RNAscope assay and assigned an H-score (0-300) (Flagship Biosciences, Broomfield, CO; Advanced Cell Diagnostics, Newark, CA)

**Follow-up:** end of treatment, 30 days after end of treatment, every 12 weeks thereafter

Data cut-off: June 30, 2022

#### First-line DKN-01 300 mg + Tislelizumab + **CAPOX in Advanced GEA Patients Regardless of Tumoral DKK1 Expression**





#### **DKK1 Expression**

- **PD-L1 Expression**
- MSS / TMB

#### Age, median (min, max) Male, n (%) Female, n (%) **ECOG Performance State** Gastric Adenocarcinoma Months Since First Dia median (min, max) GEJ Adenocarcinoma, n Months Since First Dia median (min, max) Liver Involvement, n (%) Prior Systemic Therapies Advanced/Metastatic, r Tumor PD-L1: vCPS<sup>a</sup>, n (% vCPS < 1 vCPS ≥1 vCPS <5

- vCPS ≥5 vCPS <10 vCPS ≥10 **Tumor Mutation Burden**
- <10 ≥10
- Undetermined Microsatellite status,<sup>b</sup> n
- Microsatellite Stabilit Missing
- Oro Valley, AZ). (Foundation Medicine, Cambridge, MA).
- manageable toxicity
- Most common DKN-01-related adverse events were low grade (G1/2): Fatigue, nausea, diarrhoea, neutrophil count decreased, appetite decreased, headache, platelet count decreased
- Five patients experienced Grade  $\geq$ 3 DKN-01-related adverse events:
- Diarrhoea (1), neutrophil count decreased (1), hypophosphatemia (2), pulmonary embolism (2)

- TEAEs leading to death (Grade 5) within 30 days of last dose Pulmonary embolism (1) assessed by the investigator as related to
  - regimen
  - Aspiration pneumonia (1) and hepatic failure (1) both assessed as possibly related to disease progression

Preferred Te **TEAEs leading** Any adverse DKN-01-rela Grade ≥ 3 e DKN-01-Serious adv DKN-01-**Events** lead DKN-01-Events lead \*within 30 days of last dos

References: 1. OPDIVO (nivolumab) injection prescribing information. Bristol-Myers Squibb Company, August 2021. 2. Xu J, et al. Clin Cancer Res. 2020;26(17):4542-4550. 3. Klempner SJ, et al. Mol Cancer Ther. 2021; 11:2240-2249. 4. Kagey MH, He X. Br J Pharmacology. 2017;174:4637–4650

# **Baseline Characteristics**

Elevated DKK1 common in previously untreated G/GEJ

- adenocarcinoma (57% DKK1-high)
- DKK1-high more frequently associated with liver involvement in previously untreated patients (41.7% vs 11.1%)

■ 72.7% had vCPS <5, only 2 patients had vCPS ≥10</p>

#### ■ No MSI-H and only 2 patients with TMB≥ 10 mut/Mb

(N=25)         (N=12)         (N=9)         (N=4)           61.0 (22.0, 80.0)         62.5 (22.0, 71.0)         56.0 (35.0, 80.0)         65.0 (36.0, 80.0)           19 (76.0%)         8 (66.7%)         8 (88.9%)         3 (75.0%)           6 (24.0%)         4 (33.3%)         1 (11.1%)         1 (25.0%)           us, n (%)         14 (56.0%)         6 (50.0%)         5 (55.6%)         3 (75.0%)           11 (44.0%)         6 (50.0%)         4 (44.4%)         1 (25.0%)           a, n (%)         8 (32.0%)         4 (33.3%)         2 (22.2%)         2 (50.0%)           agnosis,         1.0 (0.7, 25.1)         1.0 (0.8, 1.4)         13.1 (1.1, 25.1)         0.8 (0.7, 0.9)           (%)         17 (68.0%)         8 (66.7%)         7 (77.8%)         2 (50.0%)					
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n,b n (%)19107217 (89.5%)8 (80.0%)7 (100%)2 (100%)2 (10.5%)2 (20.0%)00		20 (90.9%)	10 (83.3%)	9 (100%)	1 (100%)
17 (89.5%)8 (80.0%)7 (100%)2 (100%)2 (10.5%)2 (20.0%)00		2 (9.1%)	2 (16.7%)	0	0
2 (10.5%) 2 (20.0%) 0 0	n, <sup>b</sup> n (%)	19	10	7	2
		17 (89.5%)	8 (80.0%)	7 (100%)	2 (100%)
6 2 2 2		2 (10.5%)	2 (20.0%)	0	0
		6	2	2	2
(%) 19 10 7 2	(%)	19	10	7	2
y (MSS) 19 (100%) 10 (100%) 7 (100%) 2 (100%)		19 (100%)	10 (100%)	7 (100%)	2 (100%)
6 2 2 2					

<sup>a</sup>vCPS: visually-estimated Combined Positive Score, also known as Tumor Area Positivity (TAP) score (Ventana Medical Systems, <sup>b</sup>Tumor Mutation Burden and Microsatellite status was determined from plasma ctDNA using the FoundationOne Liquid CDx assay

## Safety Outcomes

Combination DKN-01+ tislelizumab + capox was well tolerated with

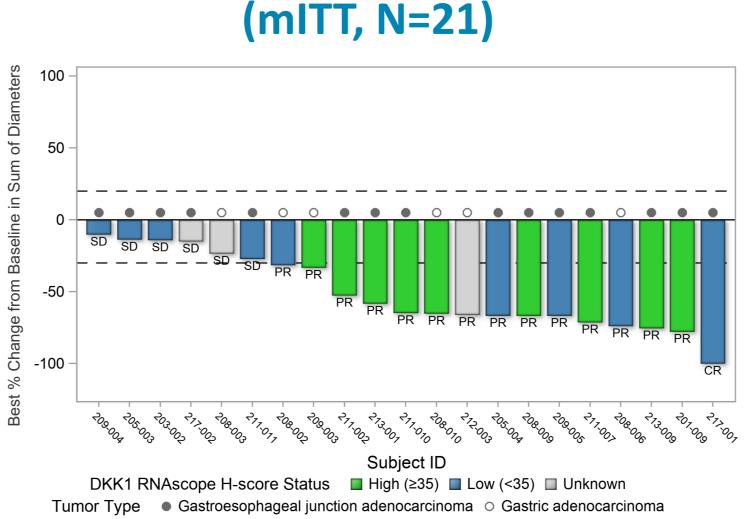
No Grade 4 treatment-related events

#### Summary of Adverse Events

	Patients (N=25)
rms	No. Patients (%)
ng to death*	3 (12%)
event	25 (100%)
lated	14 (56%)
events	16 (64%)
-related	5 (20%)
verse events	10 (40%)
-related	2 (8%)
ding to DKN-01 discontinuation	3 (12%)
-related	1 (4%)
ding to DKN-01 dose reduction	2 (8%)
f last dose	

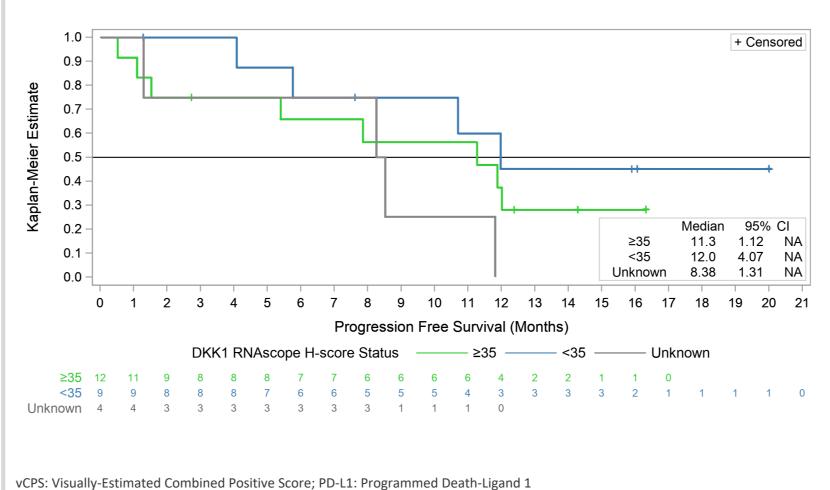
#### Overall ORR (mITT): 68% (1 CR,

- DKK1-high: 90% ORR (9 PR, 8 confirmed) DKK1-low: 56% ORR (1 CR, confirmed; 4 PR, confirmed)
- I PR (confirmed) went to curative surge pathologic CR
- DKK1-unknown: 33% ORR (1 PR, confirmed)



## **Progression-free Survival by DKK1** Expression (ITT, N=25)

Median PFS: Overall 11.3 mo, DKK1-high 11.3 mo, DKK1-low 12.0 mo



# **Disposition and Exposure**

Median duration of treatment: 11.3 mo 7 patients remain on therapy

Number of cycles, median (min, max)
Duration on treatment (months), median (min, max)
Reasons for study drug discontinuation, n (%)
Patient request to withdraw
Objective disease progression
Adverse event
Investigator decision
Other reasons
Reasons for study discontinuation, n (%)
Withdrawal of consent
Death

Duration on Study (months), median (min, max)

Acknowledgements: The authors thank the patients, families and physician investigators who participated in the DisTinGuish trial. Poster design and creation by Laurie LaRusso, MS, ELS, Chestnut Medical Communications.

# RESULTS

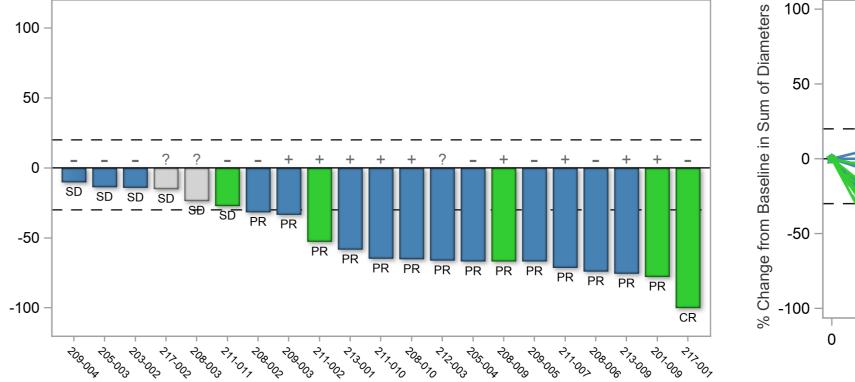
## **First-line Therapy Efficacy Outcomes by DKK1 Expression**

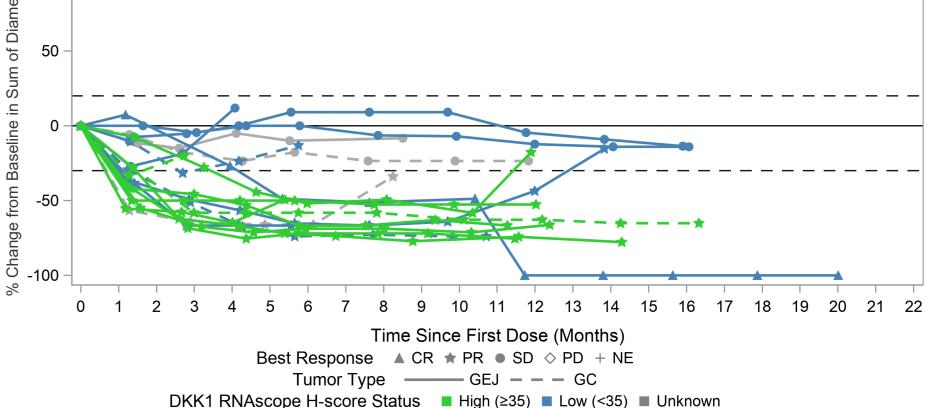
14 PR)		Best Overall Response, n (%)						
R, 3		Complete Response	Partial Response	Stable Disease	Progressive Disease	Non- Evaluable		
gery with a	mITT population (N=22)	1 (5)	14 (64)	6 (27)	0	1 (5)		
	DKK1-high (N=10)	0	9 (90)	0	0	1 (10)		
1)	DKK1-low (N=9)	1 (11)	4 (44)	4 (44)	0	0		
	DKK1 unknown (N=3)	0	1 (33)	2 (67)	0	0		
	DKK1-high: H-score >35: DKK1-low: H	-score <35						

DKK1-high: H-score ≥35; DKK1-low: H-score <35

# **Response by DKK1 Expression**

### **Response by PD-L1 Expression** (mITT, N=21)



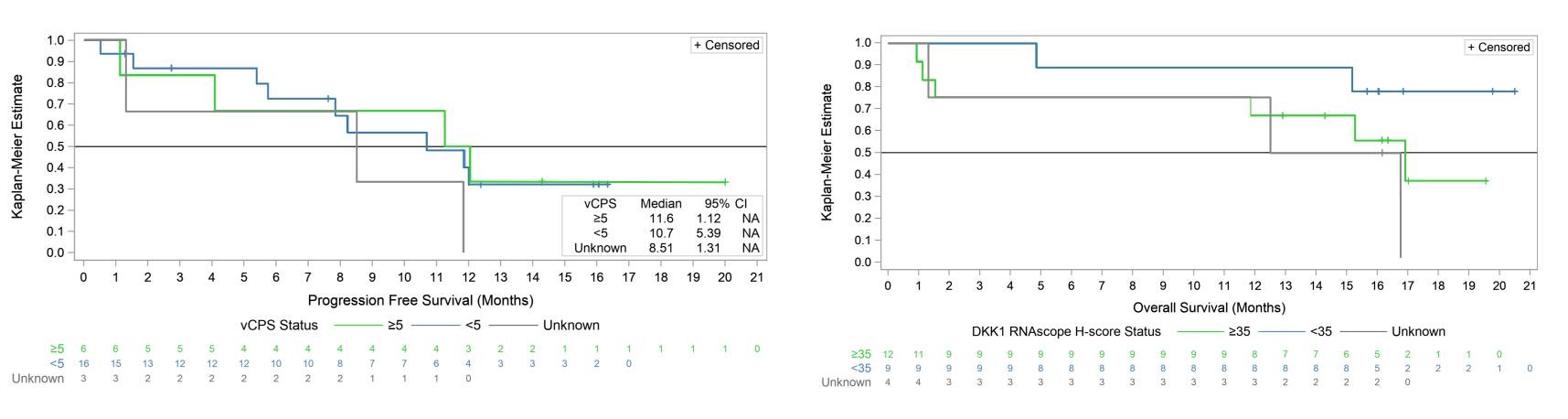


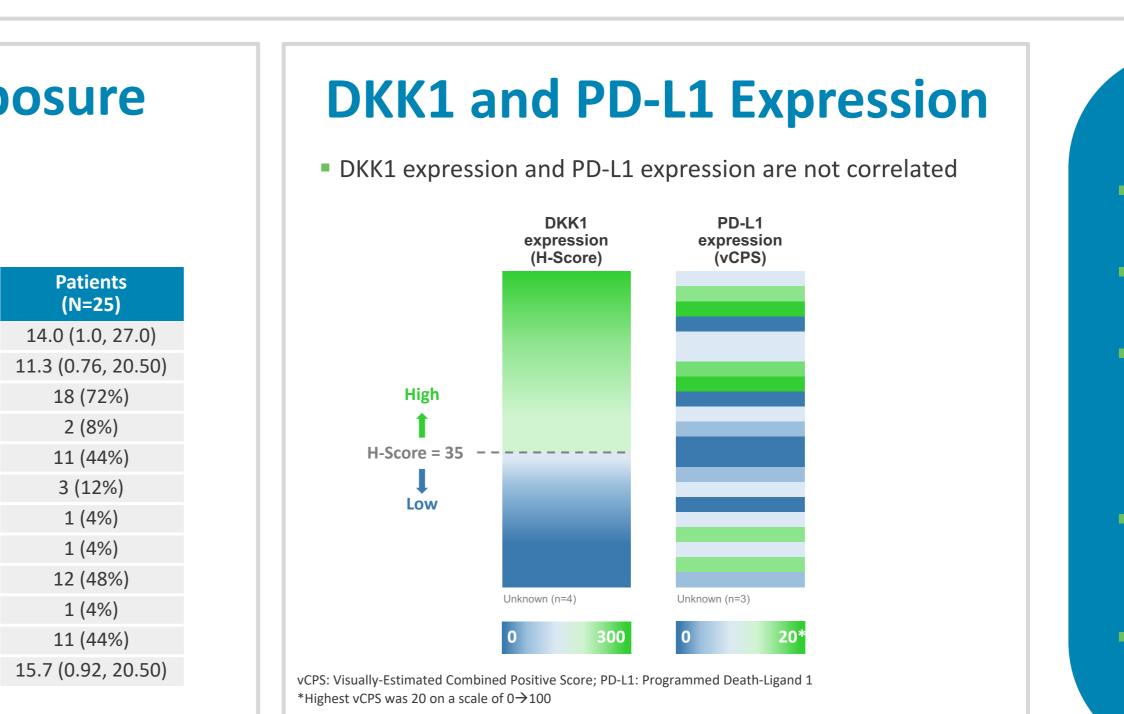
Subiect ID

vCPS Status ■ ≥5 ■ <5 ■ Unknown DKK1 RNAscope H-score Status + ≥35 - <35 ? Unknown

#### **Progression-free Survival by PD-L1** Expression (ITT, N=25)

■ Median PFS: Overall 11.3 mo, vCPS <5 10.7 mo, vCPS ≥5 11.6 mo</p>





Disclosures: Dr. Klempner reports consulting/advisory fees from Merck, BMS, Eli Lilly, Natera Oncology, Pieris,

Daiichi-Sankyo, Sanofi-Aventis, Foundation Medicine, and stock/equity in Turning Point Therapeutics.



Abstract 1835

#### **DKK1-high patients responded regardless of** PD-L1 status (mITT)

#### **PD-L1-low expression**

- (vCPS <5, n=14) 79% (11/14) ORR in PD-L1-low
- patients
- 100% (6/6) ORR in DKK1-high, PD-L1-low patients

#### PD-L1-high expression (vCPS ≥5, n= 6)

- 67% (4/6) ORR in PD-L1-high patients
- 75% (3/4) ORR in DKK1-high, PD-L1-high patients



#### **Overall Survival by DKK1 Expression** (ITT, N=25)

Median OS is not mature with 14/25 pts (56%) still alive at the data cut

## CONCLUSIONS

DKN-01 and tislelizumab + CAPOX was well tolerated and active in first-line treatment for advanced GEA patients High and durable overall response rate in unselected and aggressive subgroups (DKK-high and PD-L1-low) **Overall median PFS of 11.3 months exceeds benchmark** results in unselected patients 11.3 months in DKK1-high and 12.0 months in DKK1-low 10.7 months in CPS-low and 11.6 months in CPS-high

Median OS is not mature with only 44% of patients deceased as of the data cut with a median duration on study of 15.7 months (0.92, 20.50) Phase 2 randomized controlled study of DKN-01 +/-

tislelizumab and chemotherapy (CAPOX or mFOLFOX6) in first-line GEA is underway (NCT04363801)