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.¹
- 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.¹
- 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.² 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 DKK1³—a subset of patients with more aggressive disease and shorter overall survival.⁴
- 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.²

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)

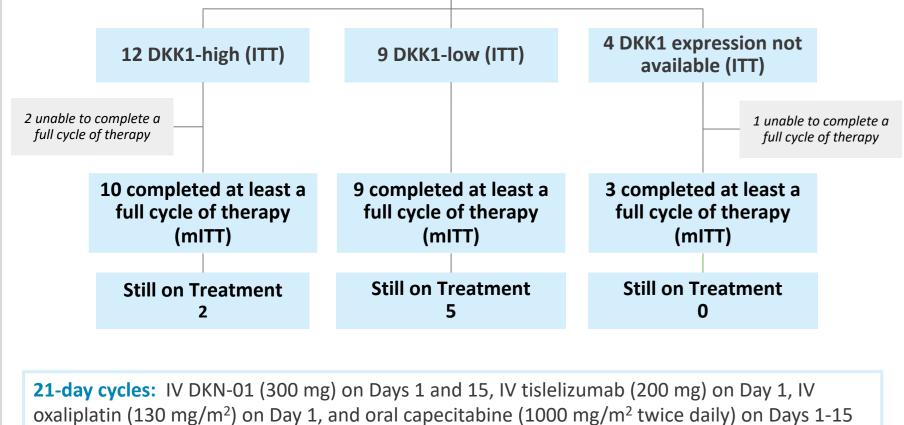
Tumoral DKK1 mRNA expression: assessed by a chromogenic *in situ* hybridization RNAscope assay and assigned an H-score (0-300) (Flagship Biosciences, Broomfield, CO; Advanced Cell Diagnostics, Newark, CA)

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^a, n (% vCPS < 1 vCPS ≥1 vCPS <5

- vCPS ≥5 vCPS <10 vCPS ≥10 **Tumor Mutation Burden**
- <10 ≥10
- Undetermined Microsatellite status,^b 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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^avCPS: visually-estimated Combined Positive Score, also known as Tumor Area Positivity (TAP) score (Ventana Medical Systems, ^bTumor 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

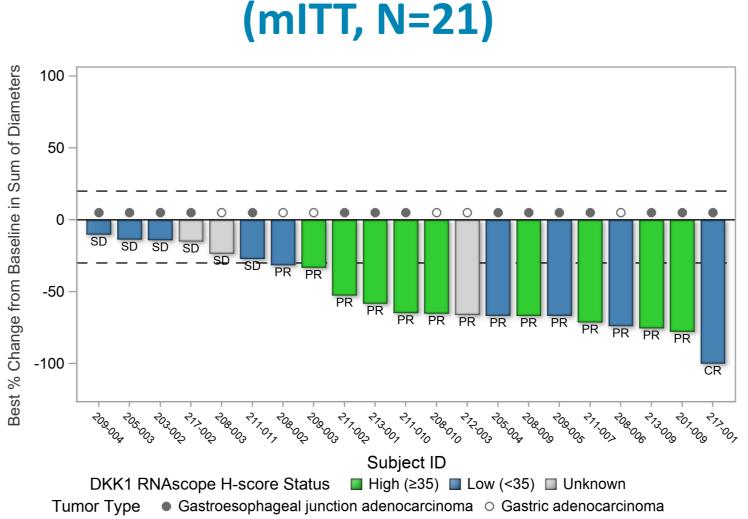
No Grade 4 treatment-related events

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 | |

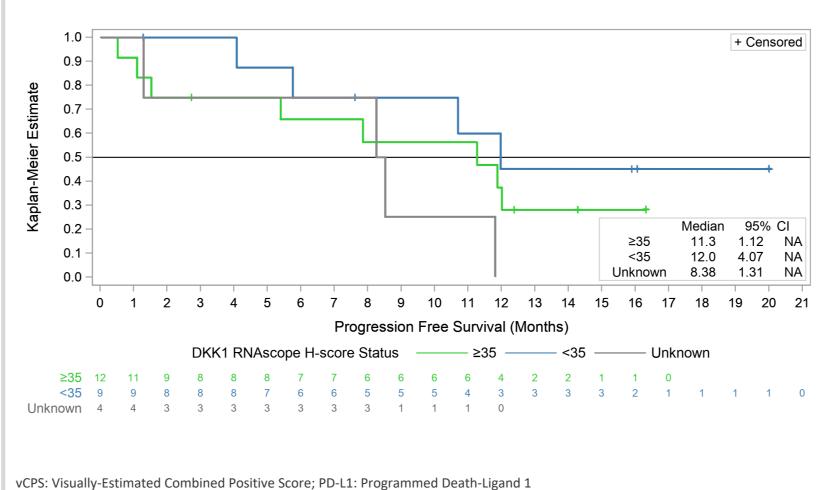
Overall ORR (mITT): 68% (1 CR,

- 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

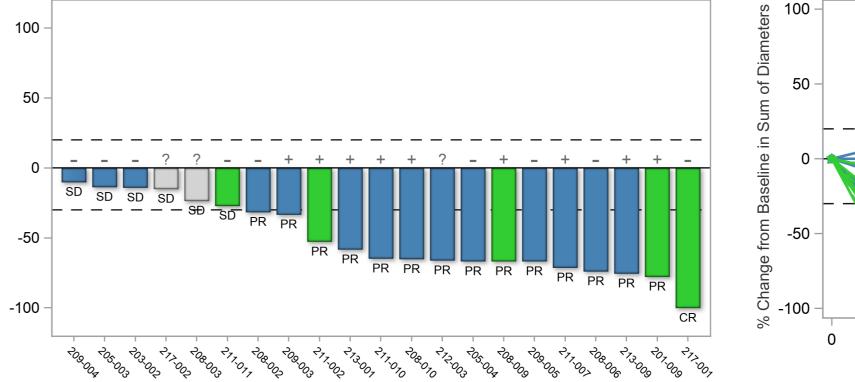
First-line Therapy Efficacy Outcomes by DKK1 Expression

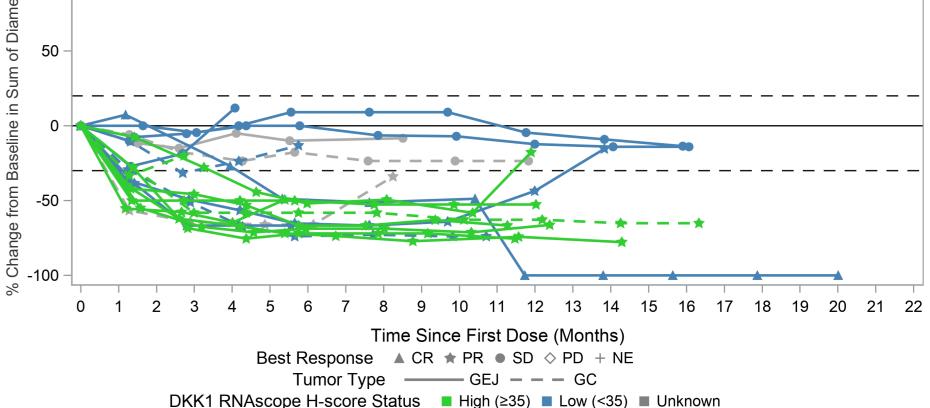
| 14 PR) | | Best Overall Response, n (%) | | | | | | |
|-------------|-------------------------------------|------------------------------|---------------------|-------------------|------------------------|-------------------|--|--|
| R, 3 | | Complete Response | Partial Response | Stable Disease | 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)



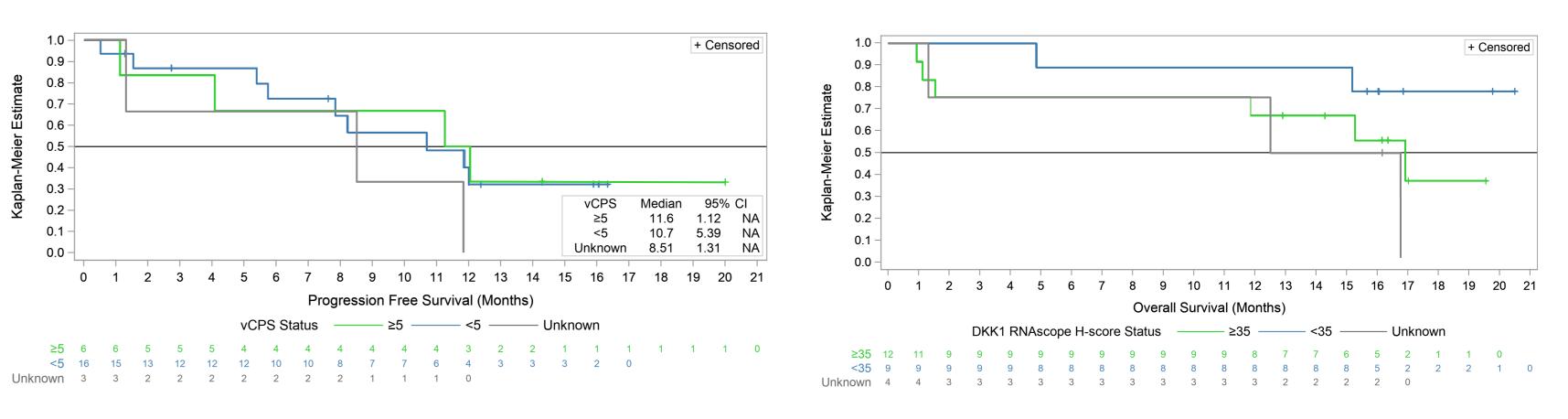


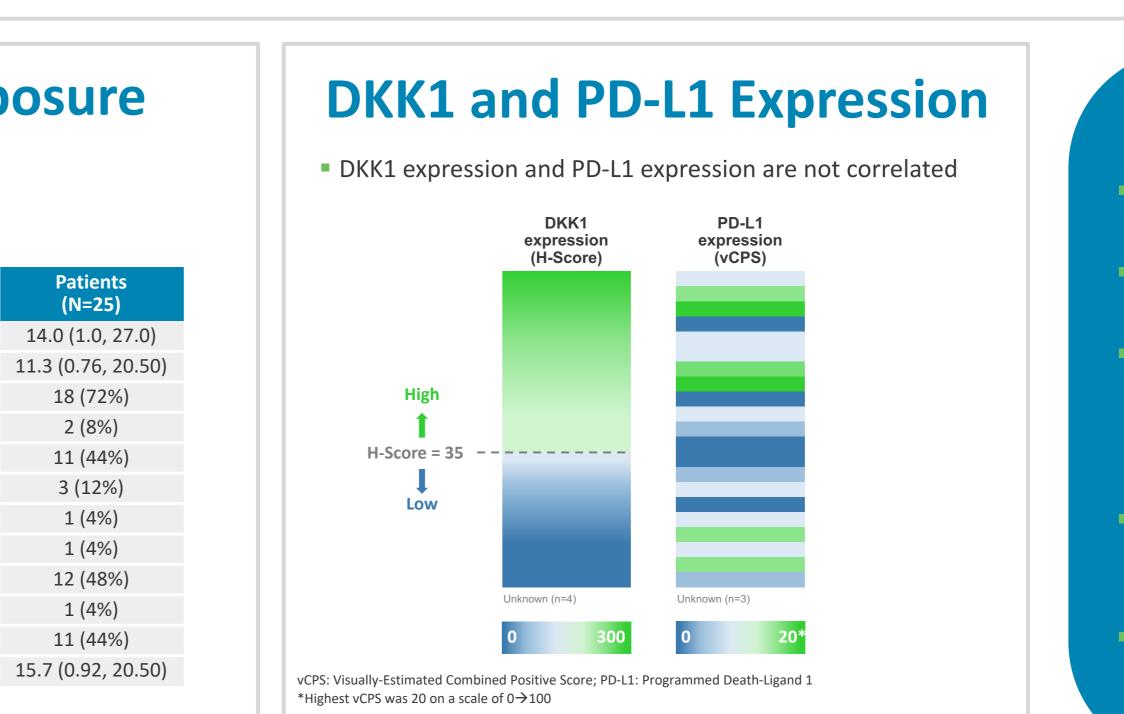
Subiect ID

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.



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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)