

ESMO Webinar:

Advanced Gastric Cancer

Filippo Pietrantonio

Chair



Programme

12 March 2025	
5 minutes	Introduction and Welcome
	Filippo Pietrantonio
15 minutes	Navigating the therapeutic landscape & exploring unmet needs in advanced gastric cancer
	Sylvie Lorenzen
15 minutes	Optimal biomarker workup for patients with advanced gastric
	Filippo Pietrantonio
15 minutes	Preventing and managing adverse events in patients with
	Tanja Fleitas Kanonnikoff
10 minutes	Live discussion, Q&A and Conclusions
	All speakers



Filippo Pietrantonio Chair

GI Medical Oncologist at Fondazione IRCCS Istituto Nazionale dei Tumori, Milan



Sylvie Lorenzen Speaker

Klinikum rechts der Isar Department of Hematology and Oncology Technical University Munich



Tania Fleitas Kanonnikoff

Speaker University Hospital of Valencia, INCLIVA





Learning Objectives

- Improving treatment decisions for gastric cancer in the rapidly evolving treatment landscape.
- Improving identification and differentiation of key biomarkers in gastric cancer and understanding their impact on diagnosis, personalised treatment, and clinical outcomes.
- Improving awareness of potential adverse events associated with current and emerging gastric cancer treatments.







ESMO Webinar "Advanced Gastric Cancer: Navigating the therapeutic landscape & exploring unmet needs

Sylvie Lorenzen

12. March 2025



Epidemiology – Cancer related cause of death in Europe 2020



Gastroesophageal junction cancer on the rise!



Morgan et al, Gastroenterology 2022;163:649–658,; Pohl & Welch. J Natl Cancer Inst. 2005 Jan 19;97(2):142-6

The Broad Reality in Advanced Disease





• Median overall survival ~11-14 months

Treatment of advanced GASTRIC CANCER in 2025

Wins for targeted therapy in biomarker selected populations



Trial	mAb	Cohort	Median OS
CM649	Nivolumab	CPS ≥ 5 responding patients	20.5m
KN811	Trastuzumab + pembrolizumab	HER2+ PD-L1 CPS≥1	20.0m
SPOTLIGHT	Zolbetuximab	CLD 18.2+ PP analysis	21.5m

Janjigian et al, ASCO GI 2024 Jangigian et al, Lancet 2023 Shitara et al, ASCO 2024

Diagnostik: Which Biomarker do we need in 2025?

First-line

- HER2
- PD-L1 (CPS)
- MSI
- CLDN 18.2



Second/Third-Line

• NGS?



HER2/neu

Arnold et al., Clin Transl Oncol. 2020 (CLDN 18.2 IHC); Rüschoff et al., Mod Pathol. 2012 (HER2/neu IHC); Ahn et al., Mod Pathol. 2021 (PD-L1 IHC)





Individualised therapy as the cornerstone of adenocarcinoma of the stomach and gastroesophageal junction

Immunotherapy

Trastuzumab in combination with fluoropyrimidine- and platinum-containing chemotherapy in first-line; HER2-positive (**ToGA**) 2. February **2010: EMA approval** 20. October **2010: FDA approval**

Nivolumab in combination with fluoropyrimidineand platinum-containing chemotherapy in firstline; HER2-negative, PD-L1 CPS ≥5 (CheckMate 649)

16. April 2021: FDA approval16. September 2021: EMA approval

2021

Zolbetuximab in combination with fluoropyrimidine- and platinumcontaining chemotherapy in first-line;; CLDH18.2 + (SPOTLIGHT) 19. September 2024 EMA approval

2010

2024

Bang YJ, et al. Lancet. 2010;376(9742):687–97; Shitara et al., Nature Medicine volume 29, pages 2133–2141 (2023); Janjigian YY, et al. Lancet. 2021;398(10294):27–4; Shitara et al., Nature Medicine 2023

Targeted (AB)Therapy

Cancer Therapy

Chemotherapy

Radiotherapy

Surgery

First-Line Therapies 2024/25



1Bang et al., Lancet. 2010; 2Janjigian et al., Lancet. 2021; 3Janjigian et al., Lancet. 2023; 4Rha et al., Lancet Oncology. 2023 5Shah et al., Nat. Med. 2023; 6Shitara et al., Lancet. 2023; 7Moehler et al., 2023 ASCO GI Cancers Symposium (Abstract 286). 2023

ESMO Living Guidelines Update Sept 2024

v1.4 – September 2024





Lordick F et al. Ann Oncol 2022 Oct; 33(10):1005-1020; ESMO Gastric Cancer Living Guideline, v1.4 September 2024



Metastatic Gastric Cancer – Case presentation

Patient

• 63 years, female, ECOG 0

Current Problem

- Weight loss 10 kg /6 months, Pain right abdomen
- Endoscopy: Cancer at Antrum
- Histology: Adenocarcinoma G3, intestinal Type according to Lauren, HER2 -, MSI, PD-L1 CPS 4, CLDN 18.2- CT Thorax/Abdomen: suspicious peritumoral Lymphnodes, Livermetastases Seg II, IV, VII

Staging uT3, N+, M1 (Lymph, Liver)

Treatment recommendation?





Principles of immune checkpoint inhibitor therapy in metastatic disease

v1.4 – September 2024

BOOD SCHNCE BETTEN VIETICINE BEST FRACTICE





Lordick F et al. Ann Oncol 2022 Oct;33(10):1005-1020; ESMO Gastric Cancer Living Guideline, v1.4 September 2024

CM649 & KN859: 1L- HER2 negative, PD-L1 +



RATIONALE-305: 1L– HER2 negativ



► Tislelizumab + chemo as first-line treatment of advanced GC/GEJC demonstrated a statistically significant and clinically meaningful improvement in OS (ITT and TAP ≥5%) over placebo + chemo at the final analysis

Checkpoint-Inhibitors and low PD-L1 Expression

PD-L1 CPS 1-9 (HR 0.84)

PD-L1 CPS 1-4 (HR 0.86)

PD-L1 CPS 5-9 (HR 0.86)



Figure 4. Pooled analysis of PD-L1_{low} subgroups in human epidermal growth factor receptor 2 (HER2)-advanced GEAC. (A) OS outcomes for the PD-L1 CPS 1-9 subgroup comprising KEYNOTE-859, KEYNOTE-062, and RATIONALE-305. (B) OS outcomes for the PD-L1 CPS 1-4 subgroup comprising KEYNOTE-859, CHECKMATE-649, and RATIONALE-305. (C) OS outcomes for the PD-L1 CPS 5-9 subgroup comprising KEYNOTE-859 and RATIONALE-305.

CI, confidence interval; CPS, combined positive score; GEAC, gastroesophageal adenocarcinoma; HR, hazard ratio; OS, overall survival; PD-L1, programmed deathligand 1.

Leone AG et al., ESMO Open. 2024 Nov;9(11):103962.



There are more biomarkers available!: CLDN18.2







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Treatment recommendation?





Update ESMO Living Guideline September 2024





DOOD SCHOOLS BETTER VERICIVE

New Target: CLAUDIN 18.2



- Member of the claudin family
- Major structural component of tight junctions
- Seals intercellular space in epithelial sheets
- Not expressed in any healthy tissues, except: stomach mucosa, but with limited accessibility

Claudin 18.2 in normal and transformed cells



Claudin 18.2 Gastric Ca (IHC 2-3+ >75%)

- All clin. Subgroups 30-45%
- Trend towards clustering in diffuse type
 More likely with low CPS
 Not prognostic (vs. CLDN fusion -> prognostically unfavourable)



Claudin 18.2 positivity







SPOTLIGHT – Phase III 1st-Line-Trial FOLFOX ± Zolbetuximab (IMAB 362) in Claudin 18.2-positive gastroesophageale Cancer

Zolbetuximab plus mFOLFOX6 in patients with CLDN18.2-positive, HER2-negative, untreated, locally advanced unresectable or metastatic gastric or gastrooesophageal junction adenocarcinoma (SPOTLIGHT): a multicentre, randomised, double-blind, phase 3 trial

Kohei Shitara, Florian Lordick, Yung-Jue Bang, Peter Enzinger, David Ilson, Manish A Shah, Eric Van Cutsern, Rui-Hua Xu, Giuseppe Aprile, Jianming Xu, Joseph Chao, Roberto Pazo-Cid, Yoon-Koo Kang, Jianning Yang, Diarmuid Moran, Pranob Bhattacharya, Ahsan Arozullah, Jung Wook Park, Mok Oh, Jaffer A Ajani





FOLFOX-based 68.7% outside Asia Asian patients mainly from Japan

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Median Follow-up 12,9 Months

ClinicalTrials.gov. NCT03504397



GLOW – Phase III 1st-Linien-Trial CAPOX ± Zolbetuximab in Claudin 18.2-positive gastroesophageal Cancer



Median Follow-up 12,6 Months

CAPOX-based 63.2% from Asia, mainly China





OS in PP-Population in Zolbetuximab vs Placebo-Group signifikantly improved!- Final Analysis



PPS population: Defined as excluding all randomly assigned patients who did not receive study treatment or lacked sufficient study drug exposure and/or who lacked an imaging assessment – this excluded patients who were not adherent to the study protocol, which excluded the majority of patients with early withdrawals.

Data cutoff date: September 8, 2023.





Zolbetuximab (SPOTLIGHT) – Survival in subgroups

В	Zolbetuximab Plus Chemotherapy	Placebo Plus Chemotherapy	Hazard Ra	tio (95% CI)
Subgroup	no. events/no. patients			and the second
All patients	377/537	424/535	-#-	0.77 (0.67-0.85
Age				
≤65 yr	241/357	284/361		0.73 (0.62-0.8
>65 yr	136/180	140/174		0.85 (0.67-1.0
Sex				
Male	243/335	272/331	-#-	0.78 (0.66-0.9
Female	134/202	152/204		0.76 (0.60-0.9
Region				
Asia	166/245	190/247		0.71 (0.58-0.8
Non-Asia	211/292	234/288	-8-	0.83 (0.69-1.0
Number of metastatic sites				
0-2	274/408	312/407		0.76 (0.65-0.9
≥3	103/129	112/128		0.78 (0.59-1.0
Prior gastrectomy				
No	276/378	303/378	-#-	0.83 (0.71-0.9
Yes	101/159	121/157		0.65 (0.50-0.8
Lauren classification				
Diffuse	120/169	164/217	-8-	0.82 (0.65-1.0
Intestinal	75/105	90/107		0.65 (0.47-0.8
Mixed/other	96/135	85/103		0.88 (0.66-1.1
Primary site			41	
Stomach	301/438	331/419	-	0.72 (0.62-0.8
Gastroesophageal junction	76/99	93/116		1.02 (0.76-1.3
Race				
White	175/234	183/224		0.89 (0.72-1.0
Asian	171/254	196/255		0.69 (0.56-0.8

Zolbetuximab Plus Chemotherapy Better Placebo Plus Chemotherapy Better

CI, confidence interval; HR, hazard ratio.





Zolbetuximab (SPOTLIGHT) – Adverse events

Table S9. Treatment-Emergent Adverse Events*,† in the Safety Analysis Set in the Combined Analysis

Event – no. (%)	Zolbetuximab + chemotherapy (n = 533)		Placebo + chemotherapy (n = 527)	
	All grade	Grade ≥3	All grade	Grade ≥3
Nausea	405 (76.0)	67 (12.6)	296 (56.2)	25 (4.7)
Vomiting	356 (66.8)	76 (14.3)	180 (34.2)	26 (4.9)
Decreased appetite	241 (45.2)	34 (6.4)	183 (34.7)	13 (2.5)
Anemia	199 (37.3)	53 (9.9)	199 (37.8)	54 (10.2)
Diarrhea	197 (37.0)	27 (5.1)	212 (40.2)	28 (5.3)
Neutrophil count decreased	167 (31.3)	95 (17.8)	150 (28.5)	93 (17.6)
Peripheral sensory neuropathy	164 (30.8)	13 (2.4)	175 (33.2)	21 (4.0)
Neutropenia	152 (28.5)	97 (18.2)	129 (24.5)	72 (13.7)
Constipation	141 (26.5)	3 (0.6)	166 (31.5)	4 (0.8)
Fatigue	118 (22.1)	25 (4.7)	136 (25.8)	24 (4.6)
Aspartate aminotransferase increased	113 (21.2)	10 (1.9)	122 (23.1)	16 (3.0)
Abdominal pain	111 (20.8)	15 (2.8)	143 (27.1)	11 (2.1)
Asthenia	108 (20.3)	28 (5.3)	96 (18.2)	10 (1.9)
Weight decreased	108 (20.3)	7 (1.3)	81 (15.4)	4 (0.8)
Hypoalbuminemia	103 (19.3)	20 (3.8)	53 (10.1)	6 (1.1)
Platelet count decreased	102 (19.1)	22 (4.1)	111 (21.1)	27 (5.1)
White blood cell count decreased	102 (19.1)	13 (2.4)	86 (16.3)	26 (4.9)
Pyrexia	95 (17.8)	2 (0.4)	73 (13.9)	1 (0.2)
Hypokalemia	88 (16.5)	30 (5.6)	80 (15.2)	27 (5.1)
Alanine aminotransferase increased	83 (15.6)	4 (0.8)	103 (19.5)	17 (3.2)

NK1 receptor inhibitor H1 blocker H2 blocker 5-HT3 receptor inhibitor . • • Dexamethasone 9.9 mg 4 mg 4 mg O 0 0 0 0 Olanzapine 5 mg 5 mg 5 mg 5 mg 5 mg

day2

day1

day3

day4

day5

The all-grade events reported here occurred in ≥15% of patients in either treatment group in the combined analysis. †Preferred terms were defined according to the Medical Dictionary for Regulatory Activities terminology version 25.0.

Shitara K et al. N Engl J Med. 2024 Sep 26;391(12):1159-1162







Update ESMO Living Guideline September 2024









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Staging uT3, N+, M1 (Lymph, Liver)

Treatment recommendation?





Immunotherapy 1st-line: HER2-pos.

KEYNOTE-811: Randomisierte globale Phase III First-line fortgeschrittenes HER2-positives Magen-Ca/ AEG

Double-Blind Phase 3 Study of Pembrolizumab + Trastuzumab and Chemotherapy vs Placebo + Trastuzumab and Chemotherapy as First-Line Therapy For HER2-Positive Unresectable or Metastatic G/GEJ Cancer (NCT03615326)



^aTrastuzumab dose: 6 mg/kg IV Q3W following an 8 mg/kg loading dose. FP dose: 5-fluorouracil 800 mg/m² IV on D1-5 Q3W + cisplatin 80 mg/m² IV Q3W. CAPOX dose: capecitabine 1000 mg/m² BID on D1-14 Q3W + oxaliplatin 130 mg/m² IV Q3W. BICR, blinded independent central review; CPS, combined positive score (number of PD-L1-staining cells (tumor cells, lymphocytes, macrophages) divided by the total number of viable tumor cells, multiplied by 100).

Janjigian YY et al., Lancet. 2023; 402(10418):2197–2208





KEYNOTE- 811: Survival benefit in HER2 and PD-L1 positive patients



1. HER2+ in 18-30% of GEA

- 2. As with PD-L1 the grade of HER2-Expression/Amplification matters
- IO plus 5FU/Platin/Trastuzumab improves PFS <u>and OS</u> in HER2+ (> in PD-L1+)

	PD- L1 CPS ≥1		PD-L1 C	PS <1
	Pembrolizumab Group N = 298	Placebo Group N = 296	Pembrolizumab Group N = 52	Placebo Group N = 52
PFS, median	10.9	7.3	9.5	9.5
HR (95% CI)	0.72 (0.60-0.87)		0.99 (0.62	2-1.56)
OS, median	20.1	15.7	18.2	20.4
HR (95% CI)	0.79 (0.66-0.95)		1.10 (0.72	2-1.68)



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- Histology: Adenocarcinoma G3, intestinal Type according to Lauren, HER2-, MSI high PD-L1 CPS 10

CT Thorax/Abdomen: suspicious peritumoral Lymphnodes, Livermetastases Seg II, IV, VII

Staging uT3, N+, M1 (Lymph, Liver)

Treatment recommendation?



MSI-high is predictive for response Immunotherapy

JAMA Oncology | Brief Report

Assessment of Pembrolizumab Therapy for the Treatment of Microsatellite Instability-High Gastric or Gastroesophageal Junction Cancer Among Patients in the KEYNOTE-059, KEYNOTE-061, and KEYNOTE-062 Clinical Trials

Joseph Chao, MD: Charles S, Fuchs, MD: Kohei Shitara, MD: Josep Tabernero, MD: Kei Muro, MD: Eric Van Cutsem, MD: Yung-Jue Bang, MD: Ferdinando De Vita, MD; Gregory Landers, MD; Chia-Jui Yen, MD; Ian Chau, MD; Anneli Elme, MD; Jeeyun Lee, MD; Mustafa Özgüroğlu, MD; Daniel Catenacci, MD; Harry H. Yoon, MD; Erluo Chen, MPH; David Adelberg, MD; Chie-Schin Shih, MD; Sukrut Shah, PhD; Pooja Bhagia, MD; Zev A. Wainberg, MD

12





191

Chemotherapy 296



83 36



D Patients with MSI-H tumors in KEYNOTE-062



CM 649: OS according to MSI Status



MSI-H Status should be routinely assessed in advanced gastroesophageal cancer. Efficacy independent of treatment line!





MSI is predictive for response to Immunotherapy



KEYNOTE-061 und -062:³ PEMBRO + ChT vs ChT alleine



MSI status should always be determined by default

Effectiveness of immunotherapy depends on the line of therapy

1. Jangjigian YY, et al. Lancet 1. 2021 2. Muro K, et al. Ann Oncol. 2023; 3. Figures angepasst von Chao J, et al. JAMA Oncol. 2021



The future of 1L is complicated, but hopeful



SPOTLIGHT (CLDN18.2), HER2-, PD-L1-SPOTLIGHT (CLDN18.2), HER2-, PD-L1+ SPOTLIGHT (CLDN18.2), HER2-, FGFR2+, PD-L1+ CM-649 (PD-1), PD-L1+ CPS > 10 CM-649 (PD-1), PD-L1+ CPS < 10 CM-649 (PD-1), PD-L1+ CPS >1, CLDN18.2+ CM-649 (PD-1), PD-L1+ CPS >1, FGFR2+ 10% CM-649 (PD-1), PD-L1+ CPS >5, FGFR2+ 5% KN-811 (HER2), HER2 IHC 3+, PD-L1-, FGFR2+5% KN-811 (HER2), PD-L1+ CPS >1, HER2 IHC 3+, FGFR2+ FORTITUDE (FGFR2b), PD-L1+CPS >1, FGFR2+5%, CLDN18.2+ FORTITUDE (FGFR2b), PD-L1-, FGFR2+5%, CLDN18.2-FORTITUDE (FGFR2b), PD-L1+CPS > 1, FGFR2+ 10%, CLDN18.2-, HER2+

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Favors Experimental





Conclusions metastatic gastric- and GEJ cancer I

- ICI are currently part of the SoC of metastatic G/GEJ cancer patients
 - PD-L1 is a challenging biomarker and enriches for response!
- Chemotherapy is still required for all G/GEJ cancer patients, to avoid early progression
 - Except for dMMR/MSI-H
- G/GEJ cancer is a heterogenic disease, with distinct driver biomarkers (temporal and spatial heterogeneity)
- Combinations of ICI + matched targeted therapy showed preliminary improvement in survival, but this may be dependent on immune context
- Addressing mechanisms of immune evasion (angiogenesis, WNT) may be helpful
Conclusion metastatic gastric- and GEJ cancer II

- Sequential therapy has been established!
- Immunotherapy is standard in first-line therapy for HER2- oesophageal and gastric cancer (CM 649, Rational 305, KN 859 ...) - efficacy depends on PD-L (1) expression!
- First-line therapy HER2-positive, PD-L1-positive: IO plus trastuzumab plus chemotherapy new standard (KN811)
- CLDN 18.2-positive: patients receive zolbetuximab from first of November! But still many questions unanswered: Testing, PD-L1-positive patients, toxicity management, subgroups ...
- New biomarkers (FGFR2) and treatments (BiTES, CAR-T, ADCs) on the horizon...



Thank you for your kind attention! Sylvie.Lorenzen@mri.tum.de







Optimal biomarker workup for patients with advanced gastric cancer: diagnosis, prognostication, and personalized treatment

Filippo Pietrantonio, Milan (IT)

12 March 2025



GEA BIOMARKERS TODAY

HER2 PD-L1 MMR/MSI EBV CLDN18 Fgfr2b





REAL WORLD ISSUES IN BIOMARKER TESTING IN GEA







THE TISSUE IS THE TISSUE

Tissue-related influence on biomarker testing in GE cancers



Not all biopsies are adequate for molecular testing!¹



GASTROENTEROLOGIST

At least 6 endoscopic biopsy specimens (to overcome tumor heterogeneity!)

Angerilli V, et al. J Clin Pathol. 2023;76(12):815–21.





GASTRIC CANCER IS A HETEROGENEOUS DISEASE



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PD-L1 SCORING SYSTEMS



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Figure adapted from Sajjadi E, et al. Ecancermedicalscience 2020; Klempner MJ, et al. – JCO Prec Oncol 2024



PD-L1 STAINING INTERPRETATION







PD-L1 is still a imperfect biomarker with suboptimal interpathologist agreement rate, due interobserver and interlaboratory variability.



Robert et al, Mod Pathol 2023; Fernandez et al, Mod Pathol 2023



Tumor Area Positivity (TAP) score of PD-L1: a novel visual estimation method for combined tumor cell and immune cell scoring



- The average positive agreement, average negative agreement, and overall percent agreement between and within readers were all above 85% for both internal and combined external reader precision studies.
- TAP score had high concordance rate at 5% cutoff compared with CPS at cutoff 1.
- TAP scoring method to be straightforward, significantly less timeconsuming, and highly reproducible with a high concordance rate between TAP score and CPS.





IO in HER2-neg: CROSS TRIAL COMPARISON BASED ON PD-L1

	Checkmate 649	Keynote 859	Rationale 305	
Anatomic Location Gastric/GEJ/esophageal adenocarcinoma		Gastric/GEJ adenocarcinoma	Gastric/GEJ adenocarcinoma	
HER2 status	Not known to be positive	Negative	Negative	
PD-L1 expression	Any	Any	Any	
PD-L1 assayAgilent/Dako PD-L1 IHC 28-8Agilent PD-LpharmDx assaypharmDx assaypharmDx assay(Stratification by TPS;Endpoint Analysis by CPS)Image: Compare the second		Agilent PD-L1 IHC 22C3 pharmDx assay (CPS)	Ventana PD-L1 IHC SP263 CDx assay (TAP)	
PD-L1 Stratification factors	PD-L1 TPS <1 vs. ≥1	PD-L1 CPS <1 vs. ≥1	PD-L1 TAP ≥ 5 vs < 5	
OS Endpoint Analysis	 PD-L1 CPS ≥5 PD-L1 CPS ≥1 ITT 	 PD-L1 CPS ≥10 and ITT PD-L1 CPS ≥1 	 PD-L1 TAP ≥5 ITT 	





PD-L1: concordance between different assays





These results support cross-application flexibility of the different PD-L1 assays and scoring algorithms for PD-L1 expression





PD-L1 negative subgroup: clear no go signal

All Patients		PD-L1 <1		PD-L1 <10		
CM649	N+CHT	CHT	N+CHT	CHT	N+CHT	CHT
N	789	792	140	125	406	387
mO5 (95% CI)	13.8 (12.6, 14.6	11.6 (10.9, 12.5)	13.1 (9.8, 16.7)	12.5 (10.1, 13.8)	12.6 (11.1, 14.2)	12.5 (11.2, 13.3)
OS HR (95% CI) 0.79 (0.70, 0.89)		0.92 (0.70, 1.23)		0.94 (0.80, 1.1)		
KN859	P+CHT	CHT	P+CHT	CHT	P+CHT	CHT
N	790	789	172	172	511	517
mOS (95% CI)	12.9 (11.9, 14.0)	11.5 (10.6, 12.1)	12.7 (11.4, 15.0)	12.2 (9.5, 14.0)	11.7 (10.7, 12.8)	11.2 (10.0, 12.1)
OS HR (95% CI)	0.77 (0.69, 0.86)		0.92 (0.	73 ,1.17)	0.86 (0.	75, 0.98)
RN306	T+CHT	CHT	T+CHT	CHT	T+CHT	CHT
N	501	496	69	43	365	351
mOS (95% CI)	15.0 (13.6, 16.5)	12.9 (12.1, 14.1)	15.4 (8.4, 19.2)	13.8 (10.2, 17.8)	14.0 (12.0, 15.3)	13.0 (12.1, 14.3)
OS HR (95% CI)	0.80 (0.69, 0.92)		0.98 (0.64, 1.50)		0.91 (0.77, 1.07)	

Exploratory FDA analyses (refer to briefing document for methodology)









Intermediate PD-L1 subgroups: still unanswered question

FDA pooled analysis of KN-859, CM649 and RAT305 (MSS only)

		IO + Chemo	Chemo			IO + Chemo	Chemo
Subgroup	% of Pts	Evt / N	Evt / N	HR (95% CI)		Median (95% CI)	Median (95% CI)
Overall	100	1246/1684	1340/1664	0.8 (0.74 ,0.87)	-	13.8 (12.9, 14.4)	12 (11.4, 12.5)
PDL1 1-<5	27	364/446	392/466	0.88 (0.76 ,1.02)		12.2 (11.1, 13.6)	11.8 (10.8, 12.6)
PDL1 5-<10	17	237/297	217/274	1.01 (0.84 ,1.22)		11.7 (10.4, 13)	13 (12.1, 14)
PDL1 1-<10	44	601/743	609/740	0.93 (0.83 ,1.04)		12 (11.1, 12.9)	12.3 (11.4, 12.9)
	Subgroup Overall PDL1 1-<5 PDL1 5-<10 PDL1 1-<10	Subgroup % of Pts Overall 100 PDL1 1-<5	IO + Chemo Subgroup % of Pts Evt / N Overall 100 1246/1684 PDL1 1-<5 27 364/446 PDL1 5-<10 17 237/297 PDL1 1-<10 44 601/743	IO + Chemo Chemo Subgroup % of Pts Evt / N Evt / N Overall 100 1246/1684 1340/1664 PDL1 1-<5 27 364/446 392/466 PDL1 5-<10 17 237/297 217/274 PDL1 1-<10 44 601/743 609/740	IO + Chemo Chemo Subgroup % of Pts Evt / N Evt / N HR (95% Cl) Overall 100 1246/1684 1340/1664 0.8 (0.74 ,0.87) PDL1 1-<5	IO + Chemo Chemo Subgroup % of Pts Evt / N Evt / N HR (95% Cl) Overall 100 1246/1684 1340/1664 0.8 (0.74 ,0.87) - PDL1 1-<5 27 364/446 392/466 0.88 (0.76 ,1.02) - PDL1 5-<10 17 237/297 217/274 1.01 (0.84 ,1.22) - PDL1 1-<10 44 601/743 609/740 0.93 (0.83 ,1.04) -	IO + Chemo Chemo IO + Chemo Subgroup % of Pts Evt / N Evt / N HR (95% Cl) Median (95% Cl) Overall 100 1246/1684 1340/1664 0.8 (0.74 ,0.87) - 13.8 (12.9, 14.4) PDL1 1-<5 27 364/446 392/466 0.88 (0.76 ,1.02) - 12.2 (11.1, 13.6) PDL1 5-<10 17 237/297 217/274 1.01 (0.84 ,1.22) - 11.7 (10.4, 13) PDL1 1-<10 44 601/743 609/740 0.93 (0.83 ,1.04) - 12 (11.1, 12.9)

0.5 0.6 0.7 0.8 0.9 1 1.1 1.2 1.3

Favors IO + Chemo <-- OS Hazard Ratio --> Favors Chemo





ESMO Living Guidelines in HER2-neg disease







POOLED ANALYSIS OF SPOTLIGHT AND GLOW







HETEROGENEITY OF CLDN18 EXPRESSION drug-dependent cut-offs?



Claudin 18.2 expression ≥2+ (% of cells)

ADCC, antibody-dependent cell cytotoxicity; CAR, chimeric antigen receptor; CDC, complement-dependent cytotoxicity; CLDN18.2, claudin 18.2; CRS, cytokine release syndrome.



Nakayama I, et al. Nat Rev Clin Oncol 2024;21(5):354–369.



NEXT STEP: TARGETED MoAB+IO



Trastuzumab+pembrolizumab (SOC based on KN-811)

Zanidatamab+tislelizumab?

TDX-d+pembrolizumab?

TDX-d+rilvegostomig?

Zolbetuximab+pembrolizumab?

Anti-CLDN18.2 ADC+pembrolizumab?





KEYNOTE-811 trial results based on PD-L1





Janjigian et al, NEJM 2024; Leone et al, ESMO Open 2024

BETTER VERICIN

POTENTIAL COMBINATION OF ZOLBETUXIMAB + IO Choosing wisely the next trials design

HER2 neg, CLDN18.2 pos

 R
 Cht + IO

 Cht + IO + Zolbetuximab

All comers including PD-L1 neg

Target population CPS ≥1

CPS ≥5 or ≥10 (pre-planned)

Unethical based on negative subgroup analyses both in HER2+ and -ve disease

Characteristic	
Replication across multiple trials	Yes
Sample ascertainment	High
Biological plausibility	Yes
Study design	+/-

Additive or synergistic effect?

Difficult to show positive results given the long-term benefit from IO in both arms

Synergy may be needed





EMERGING BIOMARKERS FGFR2b TESTING BY IHC



FGFR2b IHC+ defined as 2+/3+ staining



1. Wainberg ZA, et al. Lancet Oncol 2022; 2. Wainberg ZA, et al. Gastric Cancer 2024



FIGHT first-line ph. 2 RCT PRESCREENING BY FGFR2b IHC or *FGFR2* amplification in ctDNA

FGFR2b overexpression and FGFR2 amplification status of enrolled patients (N=155)



Legend: IHC+ = FGFR2b protein overexpression ctDNA+ = FGFR2 gene amplification

Most pre-screened patients were positive for FGFR2b overexpression by IHC rather than ctDNA analysis



Catenacci D, et al. Presented at ASCO 2021, abstract 4010.



FGFR2b PRE-SCREENING: FIGHT first-line ph. 2 RCT

FGFR2b overexpression and/or FGFR2 amplification



FGFR2b overexpression was associated with PFS and OS benefit irrespective of amplification status in ctDNA In subsequent Phase 3 trials, patients are selected according to overexpression and by the 10% positive tumor cells cut-off



Wainberg ZA, et al. Lancet Oncol 2022;23:1430–40 (and suppl).



FGFR2b: Phase 3 FORTITUDE-101 trial, 1L setting Study design

Randomised, multicentre, double-blind, placebo-controlled study

Pre-screening

Key eligibility criteria

- Untreated, unresectable, locally advanced or metastatic G/GEJ cancer
- ECOG PS 0/1
- Measurable disease per RECIST v1.1
- HER2 negative
- FGFR2b 2+/3+ tumour cells determined by centrally performed IHC testing*

Stratification factors

- Geographic region (US/EU vs Asia vs ROW)
- ECOG PS (0 vs 1)
- Tumour cell and immune cell PD-L1 status (CPS) (≥5 vs <5 or indeterminate)



Treatment until progression, unacceptable toxicity, consent withdrawal or death (whichever comes first)

Primary endpoints:

OS (in patients with ≥10% 2+/3+ FGFR2b tumour cell staining)*

Secondary endpoints:

- PFS, ORR (in patients with ≥10% 2+/3+ FGFR2b tumour cell staining)*
- OS, PFS, ORR, DoR, DCR, HRQoL, PK, safety, immunogenicity, (all randomised patients)

Study amended to enrol patients with FGFR2b ≥10% 2+/3+ tumour staining

*Centrally assessed during pre-screening by IHC on a tumour sample (either archival, obtained within 6 months/180 days prior to pre-screening or fresh biopsy). CPS, combined positive score; DCR, disease control rate; EU, Europe; HRQoL, health-related quality of life; PK, pharmacokinetics; ROW, rest of world; US, United States. NCT05052801. Available at: https://www.clinicaltrials.gov/study/NCT05052801 (accessed June 2024); Smyth E, et al. Presented at ASCO 2022, poster TPS4164.

FGFR2b: Phase 1b/3 FORTITUDE-102, 1L setting Study design

Double-blind, randomised, placebo-controlled study

Key eligibility criteria

- Phase 1b: unresectable, locally advanced or metastatic G/GEJ cancer
- FCOG PS 0/1
- Measurable disease per RECIST v1.1
- Not known to be HER2 positive
- No chronic/systemic ophthalmologic disorders or corneal abnormalities

Additional for Phase 3:

- No prior treatment except for max. 1 dose chemotherapy \pm nivolumab
- FGFR2b 2+/3+ tumour cells determined by centrally performed IHC testing*

Study amended to enrol patients with FGFR2b \geq 10% 2+/3+ tumour staining



OS, PFS, ORR, safety, PK (all patients)

*Centrally assessed during pre-screening by IHC on a tumour sample (either archival, obtained within 6 months/180 days prior to pre-screening or fresh biopsy); [†]Patients will be given FOLFOX6 and nivolumab on a 14-day cycle, or given CAPOX and nivolumab on a 21-day cycle. NCT05111626. Available at: https://www.clinicaltrials.gov/study/NCT05111626 (accessed April 2024); Wainberg ZA, et al. ESMO Congress 2023, poster 1526P.









Preventing and managing adverse events in patients with advanced gastric cancer in the era of precision oncology

TANIA FLEITAS KANONNIKOFF

March 2025

Medical Oncology Department. Hospital Clínico Universitario de Valencia, INCLIVA, Valencia, Spain



DECLARATION OF INTERESTS

Clinical trials and research funding: Genentech, Adapt immune, Roche, Beigene, Astelas, BMS, Daichii Sanyo, Amgen, Gilead. Participation as speaker: Amgen, Bayer, BMS, Lilly, MSD, Astellas and Servier Travel grants: Lilly, Roche, Amgen; MSD Advisory board: MSD, Astrazeneca, BMS, Beigene, Amgen



Agenda

- Advanced gastric cancer current practice guidelines
- The patient characteristics
- Baseline assessment and follow-up
- Classical toxicities related with chemotherapy
- Toxicities derived from the immune and targeted therapy
- New drugs and combination adverse event challenges





Advanced Her2 positive gastric cancer treatment



Advanced Her2 negative gastric cancer treatment







Lordick F. et al.Ann Oncol 2022;33(10):1005-1020. ESMO living guidelines V1.4 Sept. 2024



Patient characteristics

• The performance status is determinant for the treatment benefit



Figure 2. Kaplan-Meier survival curves of overall survival (OS) Median OS for first-line chemotherapy was significantly shorter in PS 2 patients compared to PS 0–1 patients (5.8 months vs. 13.9 months; P < .001).





Baseline assesment



ESMO Checklist: Gastric Cancer Patient Related Treatment Workflow*

Tick the box and insert the date as you have dealt with every task listed below, as appropriate. In case you use the template, you can also insert and save data directly on the PDF file.

PATIENT'S PERSONAL DATA	
Last Name:	First Name:
Date of birth:/_/	Gender:
DATE OF REFERRAL/1 st CONSULTATION://	
MEDICAL HISTORY AND RISK FACTORS	
Past personal medical history and co-morbidities:	
Past surgical history:	
Concurrent medication:	
Allergies:	
Smoking history:pack/y from age to age	
Alcohol consumption:	
Normal weight: He	ght: BMI:
PRESENT MEDICAL CONDITIONS	
Main symptoms:	
Weight loss:	
ECOG Performance Status:	
Nutritional Status:	
Other relevant clinical conditions:	
DIAGNOSIS AND CLINICAL STAGING	
Endoscopy	
EUS	
/ Thoraco-abdomino (+/- pelvic) CT scan	
PET-CT scan	
Laparoscopy + washings	
TNM stage and grade	

HISTOLOGICAL ANALYSIS	
Core biopsy of primary tumor	
Adenocarcinoma	
PD-L1 CPS status (IHC)	
HER 2 (IHC and/or FISH)	
MSI or dMMR status	
Other predictive biomarkers (FGFR2; MET; Claudin-18.2; EBV)	
Tissue material available/stored for future molecular analyses	
LAB TESTS	
FBC Liver Function Renal Function Iron Status	
Timeline for further work-up has been checked and it is tight enough	

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111	MDT discussion and decision					
	Neo-adjuvant therapy					
	Resection (endoscopic or surgical)					
	Adjuvant therapy	Adjuvant therapy				
	Supportive and palliative care					
	Enrolment in a clinical trial					
_1_1_	Treatment options have been discussed with the patient and strategy accepted					
OMPILER IN	INFORMATION					
lame:		Date: _/_/				
comments:						

BOOD SCIENCE BETTER MEDICINE



https://oncologypro.esmo.org/oncology-in-practice/practice-tools/esmo-checklists

Classical toxicities related with chemotherapy

BETTER MEDICINE BEST PRACTICE


The Real -2 study

Adverse Event	ECF (N = 234)		ECX (N=234)		EOF (N=225)		EQX (N=227)	
	All Grades	Grade 3 or 4	All Grades	Grade 3 or 4	All Grades	Grade 3 or 4	All Grades	Grade 3 or 4
				per	cent			
Anemia†	78.4	13,1	79.5	10.5	65.8	6.5‡	64.2	8.6
Thrombocytopenla†	14.5	4.7	17.0	4.8	13.4	4.3	21.1	5.2
Neutropenia†	73.6	41.7	85.6	51.11	68.4	29.95	62.9	27,6
Febrile neutropenia†	13.2	9,3	10.5	6.7	11.5	8.5	9.8	7.8
Diarrhea	39.5	2.5	41.9	5.1	62.7	10.75	61.7	11.91
Stomatitis	50.9	1.3	39.3	1.7	44,4	4.4‡	38.1	2.2
Hand-foot syndrome	29,8	4.3	45.9	10.32	28.9	2.7	39,3	3.1
Nausea and vomiting	79.1	10,2	82.1	7.7	83.1	13.8	78.9	11.4
Peripheral neuropathy	30.0	0,4	36.3	17	79.6	8.45	83.7	4:48
Lethargy	89.7	16.6	92.7	15.5	90.2	12.9	96.1	24,9
Alopecia¶	81.5	44.2	82.5	47.4	75.4	27.75	74.2	28.81
Thromboembolism	16.9	NA	13.3	NA	7.75	NA	7.55	NA
Death within 60 days (95% CI)**	7.2 (4.	7-11.1)	5.6 (3	.4-9.3)	5.7 (3	.4-9.5)	6.1 (3.	8-10.0)

* Patients were randomly assigned to receive one of four triplet therapies: epirubicin and cisplatin plus either fluorouracil (ECF) or capecitabine (ECX), or epirubicin and oxaliplatin plus either fluorouracil (EOF) or capecitabine (EOX). NA denotes not applicable.

This side effect of treatment was measured in the hematologic-safety population, consisting of 236 patients in the ECF group, 229 patients in the ECX group, 231 patients in the EOF group, and 232 patients in the EOX group.

- 2 P<0.01 to P<0.05 for the comparison with the ECF group.
- P<0.001 to P<0.01 for the comparison with the ECF group.
- The highest grade of alopecia was grade 2, which is listed in the grade 3 or 4 column.
- The diagnosis of thromboembolism was made only in the per-protocol population.

** Death within 60 days after randomization was evaluated only in the intention-to-treat population.

ECF: D1 = Epirubicin 50 mg/m², Cisplatin 60 mg/m²; 5-FU **5-fluorouracil (200 mg m(-2) day(-1))**/ 21 days. Cumulated dose of Epirubicin < 900 mg/m² (max 18 cures)

ECX: D1 = Epirubicin 50 mg/m² , Cisplatin 60 mg/m² ; D2 to 15: Capecitabine 1 g/m² x 2/d. D1 = D21. Cumulated dose of Epirubicin < 900 mg/m² (max 18 cures)

EOF: D1= Epirubicin 50 mg/m², Oxaliplatin 130 mg/m² 5-FU 5fluorouracil (200 mg m(-2) day(-1))/ 21 days. Cumulated dose of Epirubicin < 900 mg/m² (max 18 cures)

EOX: D1 = Epirubicin 50 mg/m², Oxaliplatin 130 mg/m²; D2 to 15: Capecitabine 1 g/m² x 2/d. D1 = D21. Cumulated dose of Epirubicin \approx 900 mg/m² (max 18 cures)



Cunningham D, et al. N Engl J Med. 2008 Jan 3;358(1):36-46.

The phase III GASTFOX study, most common Treatment-Emergent Adverse Events (TEAEs) **Reported in ≥20% of patients**

	mFLOT/TFOX (N=249)				P value* (difference		
	Grade 1-2 N (%)	Grade 3 N (%)	Grade 4 N (%)	Grade 1-2 N (%)	Grade 3 N (%)	Grade 4 N (%)	grade 3-4)
ematologic							
Anemia	168 (67.5)	15 (6.0)	3 (1.2)	154 (61.8)	7 (2.8)	3 (1.2)	NS
Thrombocytopenia	115 (46.2)	6 (2.4)		134 (53.8)	7 (2.8)		NS
Neutropenia	44 (17.7)	45 (18.1)	20 (8.0)	68 (27.3)	33 (13.3)	11 (4.4)	0.02
Febrile neutropenia	-	7 (2.	8)	-	4 (*	1.6)	NS
							-
on Hematologic	127 (51 0)	70 (21 7)		161 (64 7)	<i>4</i> 7 (18 0)	2 (0.8)	0.02
Diarrhoea	127 (51.0)	32 (12.9)	4 (1 6)	83 (33 3)	16 (6 4)	2 (0.0)	0.02
Nausea	153 (61.4)	10 (4.0)	. (143 (57.4)	11 (4.4)		NS
Vomiting	99 (39.8)	12 (4.8)		70 (28.1)	8 (3.2)		NS
Stomatitis	79 (31.7)	3 (1.2)	1 (0.4)	53 (21.3)	1 (0.4)		NS
Fatigue	174 (69.9)	38 (15.3)		164 (65.9)	18 (7.2)		0.005
							-
oxic death †	-	2 (<:	1)	-	1 (<1)	NS

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Special considerations: OPTIMISING CHEMOTHERAPY FOR FRAIL AND ELDERLY PATIENTS:

• Phase 3 GO2 study



OPTIMISING CHEMOTHERAPY FOR FRAIL AND ELDERLY PATIENTS: GO2 study

• Reducing chemotherapy intensity did not impact cancer control



BETTER MEDICIN



Hall PS, Swinson D, Cairns DA, et al JAMA Oncol. 2021 Jun 1;7(6):869-877.

Toxicities impact according to gender

Table 1. Continued					Most frequent on-th
Baseline characteristics	Total n = 3274 (100%)	Men a = 2313 (100%)	Women n = 961 (100%)	P value"	Detreet
S-10 ULN	90 (2.7)	65 (2.8)	.25 (2.6)	_	Thurses
>10 ULN Not available	71 (2.2) 138 (4.2)	.55 (2.4) 104 (4.5)	16 (1.7) 34 (3.5)		Heart failure
Lactate dehydrogenase (U/I), n (%)				0.7586	
Normal Normal to 2.5 ULN	1825 (55.7) 604 (18.4)	1291 (55.8) 421 (18.2)	534 (55.6) 183 (19.0)		Neurpoory
2.5 to 5 ULN 5-10 ULN	154 (4.7) 59 (1.8)	116 (5.0) 39 (1.7)	38 (4.0) 20 (2.1)		Adriasion
>10 ULN. Not available	18 (0.5) 614 (18.8)	12 (0.5) 434 (18.8)	6 (0.6) 180 (18.7)		Kidney
Platelets				D.6953	
Normal (100,000-450,000/µl) High (>450 000/µl) Low (<100 000/µl) Not available	2883 (88.1) 324 (9.9) 33 (1.0) 36 (1.0)	2046 (88.5) 222 (9.6) 23 (1.0) 22 (1.0)	837 (87.1) 102 (10.5) 10 (1.0) 12 (1.2)		AST excessed
Short-course regimens	- (201	the factor	and found	0.0452	Neutropenia
Oxaliplatin based Cisplatin based Anthracycline based Docetaxel based	1451 (44.3) 642 (19.6) 595 (18.2) 344 (10.5)	992 (42.9) 468 (20.2) 421 (18.2) 244 (10.5)	459 (47.8) 174 (18.1) 174 (18.1) 100 (10.4)		Febrie routopenia
trinotecan based	57 (1.7)	45 (2.0)	11 (1.1)		Errorite 1
Others	185 (5.7)	142 (6.1)	43 (5.4)		
Detailed regimens		(and ford)	the factor	D.0179	
CAPOX FOLFOX Anthracycline-based XP Docetaxel-based	729 (22.3) 689 (21.0) 606 (18.5) 425 (13.0) 346 (11.2)	521 (22.5) 449 (19.4) 429 (18.5) 319 (13.4) 256 (11.1)	208 (21.6) 240 (25.0) 177 (18.4) 115 (12.0) 110 (11.4)		Stormadis
Cisplatin—SFU Carbopiatin—SFU POLFIRI	200 (6.1) 75 (2.3) 34 (1.0) 150 (4.5)	146 (6.3) 62 (2.7) 26 (1.1)	54 (5.6) 13 (1.4) 8 (0.8)		Figure 4. Amit plot for grade 3-4 toxicity by sex. nAE, number of adverse events; NCI-CTC, National Cancer Institute-Common Toxicity Criteria



Significance of bold values are relevant values to consider

SFL, Rudrouracil; ECOG PS, Eastern Looperative Discology Group performance status; (HQ, Immunohistochemistry, NLR, neutrophil-to-lymphotyte ratio; ULN, upper limit of normal; XP, aspectatione + alatinum.

^{ap} values refer to comparisons by sex and are tlenved from χ^2 tests for categorical variables, and Wildoxoh test for continuous variables (e.g. age, NLR)

Women presented more G3-4 toxicities from CT according to the AGAMENON registry, n=3274



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Gallego, J. Et al. ESMO Open. 2022 Jun;7(3):100514.

Toxicities related with trastuzumab

Cisplatin + 5FU/ Capecitabine + trasztuzumab vs Cisplatine + 5-FU / Capecitabine

	Trastuz umab chemotherap	plus ay (n=294)	Chemothera	py alone (n=290
	All grades	Grade 3 or 4	All grades	Grade 3 or 4
Any adverse event	292 (99%)	201 (68%)	284 (98%)	198 (68%)
Gastrointestinal disorders				
Nausea	197 (67%)	22 (7%)	184 (63%)	21 (7%)
Vomiting	147 (50%)	18 (6%)	134 (46%)	22 (8%)
Diarrhoea	109 (37%)	27 (9%)	80 (28%)	11 (4%)
Constipation	75 (26%)	2 (1%)	93 (32%)	5 (2%)
Stomatitis	72 (24%)	2 (1%)	43 (15%)	6 (2%)
Abdominal pain	66 (22%)	7 (2%)	56 (19%)	5 (2%)
Dysphagia	19 (6%)	7 (2%)	10 (3%)	1 (<1%)
Blood and lymphatic system disorde	ers			
Neutropenia	157 (53%)	79 (27%)	165 (57%)	88 (30%)
Anaemia	81 (28%)	36 (12%)	61 (21%)	30 (10%)
Thrombocytopenia	47 (16%)	14 (5%)	33 (11%)	8 (3%)
Febrile neutropenia	15 (5%)	15 (5%)	8 (3%)	8 (3%)
General, metabolic, and other disord	lers			
Anorexia	135 (46%)	19 (6%)	133 (46%)	18 (6%)
Fatigue	102 (35%)	12 (4%)	82 (28%)	7 (2%)
Hand-foot syndrome	75 (26%)	4 (1%)	64 (22%)	5 (2%)
Weight decreased	69 (23%)	6 (2%)	40 (14%)	7 (2%)
Asthenia	55 (19%)	14 (5%)	53 (18%)	10 (3%)
Pyrexia	54 (18%)	3 (1%)	36 (12%)	0
Renal impairment	47 (16%)	2 (1%)	39 (13%)	3 (1%)
Mucosal inflammation	37 (13%)	6 (2%)	18 (6%)	2 (1%)
Nasopharyngitis	37 (13%)	0	17 (6%)	0
Chills	23 (8%)	1 (<1%)	0	0
Hypokalaemia	22 (7%)	13 (4%)	13 (4%)	7 (2%)
Dehydration	18 (6%)	7 (2%)	16 (6%)	5 (2%)
Dyspnoea	9 (3%)	1 (<1%)	16 (6%)	5 (2%)

Breast cancer and gastric cancer

Duration of treatment

Patients with MBC or MGC should be treated with Herceptin until progression of disease. Patients with EBC should be treated with Herceptin for 1 year or until disease recurrence, whichever occurs first; extending treatment in EBC beyond one year is not recommended (see section 5.1).

Dose reduction

No reductions in the dose of Herceptin were made during clinical trials. Patients may continue therapy during periods of reversible, chemotherapy-induced myelosuppression but they should be monitored carefully for complications of neutropenia during this time. Refer to the SmPC for paclitaxel, docetaxel or aromatase inhibitor for information on dose reduction or delays.

If left ventricular ejection fraction (LVEF) percentage drops ≥ 10 points from baseline AND to below 50 %, treatment should be suspended and a repeat LVEF assessment performed within approximately 3 weeks. If LVEF has not improved, or has declined further, or if symptomatic congestive heart failure (CHF) has developed, discontinuation of Herceptin should be strongly considered, unless the benefits for the individual patient are deemed to outweigh the risks. All such patients should be referred for assessment by a cardiologist and followed up.

Monitoring

Cardiac assessments, as performed at baseline, should be repeated every 3 months during treatment and every 6 months following discontinuation of treatment until 24 months from the last administration of Herceptin.

The number of patients with cardiac dysfunction (defined as a $\geq 10\%$ drop in LVEF to an absolute value <50%) was low in both treatment groups (trastuzumab plus chemotherapy, 11 [5%] of 237 vs chemotherapy alone, two [1%] of 187).

Fleitas, T. 🕑 ESMO ON AIR

Bang, Yung-Jue et al. The Lancet, Volume 376, Issue 9742, 687 - 697 http://www.ema.europa.eu

Toxicities related with trastuzumab-deruxtecan



Patient 1



DOOD SCIENCE BETTER VEDICINE BEST FRACTICE

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Swain SM et al. Cancer Treat Rev. 2022;106:102378



Toxicities related with trastuzumab-deruxtecan



Fleitas T. **ESMU UN AIK**

Swain SM et al Cancer Treat Rev. 2022;106:102378

IMMUNOTHERAPY ADVERSE EVENTS

Safety

- Treatment-related AEs occurred in 751 patients (95.7%) in the pembrolizumab plus chemotherapy group and 736 patients (93.5% in the placebo plus chemotherapy group
- Grade 3-5 treatment-related AEs occurred in 466 patients (59.4%) in the pembrolizumab plus chemotherapy group and 404 patients (51.3%) in the placebo plus chemotherapy group





aln the pembrolizumab plus chemotherapy group, 8 patients died of treatment-related AEs (1 death, 1 diarrhea, 1 peripheral embolism, 1 pneumonitis, 1 pulmonary hemorrhage, 1 sepsis, 1 septic shock, 1 thrombotic thrombocytopenic purpura). In the placebo plus chemotherapy group, 16 patients died of treatment-related AEs (2 acute myocardial infarction, 1 cerebral hemorrhage, 1 cerebrovascular accident, 1 diarrhea, 1 gastric perforation, 1 hepatic function abnormal, 1 neurotoxicity, 1 pneumonitis, 1 pulmonary embolism, 1 sepsis, 3 septic shock, 1 sudden death, 1 urosepsis).

Immunotherapy chronic adverse events



Fig. 3 | Possible frequencies of chronic immune-checkpoint inhibitor-induced toxicities. The exact risks of acute toxicities becoming chronic (defined as persisting for at least 12 weeks beyond treatment cessation) are currently unknown, although endocrinopathies, arthritis, xerostomia, neurotoxicities and ocular events are generally more likely to become chronic toxicities. Immune-related adverse events affecting the visceral organs seem to have a lower risk of becoming chronic. Percentages expressed are the percentages of acute toxicities that become chronic (defined as those that persist for at least 12 weeks following immune-checkpoint inhibitor discontinuation) from REF¹⁴.

Fleitas T. (>) ESMO ON AIR

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Johnson, D.B., et al. Nat Rev Clin Oncol 19, 254-267 (2022).

BETTER MEDICIN

Immunotherapy + targeted therapy adverse events **KN811 FINAL RESULTS**

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Treatment-related Adverse Events

Summary of Adverse Events in all Treated Patients

AEs, n (%)	Pembrolizumab Group N = 350	Placebo Group N = 346	
Any grade AEs	348 (99)	346 (100)	
Treatment-Related AEs	341 (97)	334 (97)	
Serious	91 (26)	79 (23)	
Grade 3-4	202 (58)	173 (50)	
Grade 5	4 (1)	3 (1)	
Led to discontinuation of any drug	130 (37)	117 (34)	



ESMI Data cutoff date: 20 Mar 202 aminotransferase, PPES, plantar-palmar enthrodysaethesia syndrome. Grade 5 treatment-related AEs of hepatitis, sepsis, cerebral infarction, and pneumonitis occurred in one patient each in the pembrolizumab group, and of pulmonary embolism, cholangitis, and myocarditis in one patient each in the placebo group. V

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Zolbetuximab + chemotherapy



CLDN18.2, a tight junction protein, expressed in normal and malignant gastric mucosa cells, become exposed on the surface of G/GEJ adenocarcinoma cells during malignant transformation, making it a promising target





Zolbetuximab adverse events in combination with chemotherapy: results from the Glow study

The most common TEAEs with zolbetuximab + CAPOX were nausea, vomiting, and decreased appetite as on-target effects Nausea and vomiting occurred mostly during the first zolbetuximab cycle¹ ٠ Placebo + CAPOX (N = 249) Zolbetuximab + CAPOX (N = 254) Nausea 68.9 2.4 8.7 50.2 66.1 3.6 Vomiting 12.2 31.3 41.3 6.7 34.5 Decreased appetite 1.6 36.6 11.4 11.2 36.9 Anemia 32.3 5.9 34.9 Diarrhea Neutrophil count dcereased 28.0 10.3 23.7 9.6 2.4 2.8 30.1 Aspartate aminotransferase increased 24.8 Platelet count decreased 24.0 7.5 8.4 24.9 0.4 22.5 Peripheral sensory neuropathy 22.4 2.4 22.4 Hypoalbunemia 3.1 1.6 14 1 20. 2.0 16.1 White blood cell count decreased 4.0 0.4 0.4 10.0 Weight decreased 19.7 19.7 7.1 2.8 14.1 Neutropenia Alanine aminotransferase increased 0.8 2.8 21.3 18.9 1.6 Palmar-plantar erythrodysaesthesia syndrome 16.5 3.6 19.7 Abdominal pain 16.1 0.4 1.6 22.1 Allgrad Constipation 15.7 0 0.4 21 Hypokalemia 14.6 5.5 6.8 15.3 Fatigue 13.8 2.8 3.6 30 70 60 50 40 20 10 10 20 30 10 50 Ω Patients, % ^aPreferred terms were defined according to the Medical Dictionary for Regulatory Activities terminology version 25.0; ^bAmong all treated patients in either treatment arm. 1. Shah MA et al. Nat Med. 2023; 29(8):2133-2141.



Zolbetuximab adverse events in combination with chemotherapy: results from the Spotlight study

The incidence of overall TEAEs was similar between treatment arms The most common TEAEs with zolbetuximab + mFOLFOX6 were nausea, vomiting, and decreased appetite as on-target effects Nausea and vomiting occurred mostly during the first zolbetuximab cycle

			Zolbetuxin	nab + mFOLI	FOX6 (N = 2	79)			Placebo	+ mFOLFOX	6 (N = 278)	
Nausea 82.4						16.1		- 6.8	3			61.5
Vomiting	67.	4				16.1		6.1		36.3		
Decreased appetite			48.7				5.7	3.2		34.9		
Diarrhea				40.9			4.3	3.6			45.0	
Peripheral sensory neuropathy				38.4			4.3	5.4			42.8	
Anemia				38.0			8.6		9.4	38	3.5	
Neutropenia				36.6	28.3				23.4	33.8		
Constipation				35.	8		1.1	1.1			40.6	
Neutrophil count decreased				3	4.4 24	.7			24.8	32.7		/
Fatigue					29.7		6.5	5.4		33.8		~
Asthenia					26.5		7.5	2.5	23.0			
Abdominal pain					25.	1	5.0	2.5		31.3		/
Stomatitis						21.5	2.5	1.1	21.6			/
Pyrexia						20.8	0.4	0.4	18.0			
Weight decreased						20.4	2.2	0.7	19.8		/	
Edema peripheral						18.6	0.7	0	9.7		/	
Hypokalemia						18.3	5.7	3.6	15.1		/	
White blood cell count decreased						18.3	2.9	5.8	16.5		/	
rtate aminotransferase increased						17.9	1.4	3.2	16.9	/	$\langle \rangle$	
Abdominal pain upper						16.8	1.4	0	11.9	/		
Hypoalbuminemia						16.5	4.3	0.7 6.5		/		
Paresthesia						15.8	2.2	1.4	16.9	/		
Dysgeusia						15.8	0.4	0	14.4	\leftarrow		
Platelet count decreased						14.7	1.1	2.2	17.6		/	I All grade
anine aminotransferase increased						12.5	0.7	3.6	18.0			Grade ≥3
Thrombocytopenia	L	I			1	I 10	1.1	1.4	16.2		/	\vdash \setminus /
	80	70	60	50	40 3	30 20	¹⁰ Patie	nts.%	10 20 30	40	50	60
^a Prefer	ed terms were d	lefined acco	ordina to the Me	dical Dictionarv	for Regulatory	Activities terminol	oav version 25.0: 1	Among all tre	ated patients in either trea	tment arm.		^
	u		g to the mo				- 3, 70:0:0: 20:0,			/		

ESIVIU

- Consensus guidance for management of nausea/vomiting in patients treated with zolbetuximab + chemotherapy: A RAND/UCLA modified Delphi panel study
 - Experts from US, Europe, Japan and South Korea reviewed 382 scenarios, reaching agreement in 85% (n = 324) of the scenarios for Round 2

V



Bemarituzumab



- FGFR2b is a member of the FGFR family (FGFR1-4) and is a splice isoform of FGFR2.
- FGFR2b overexpression: 3-61% of gastric cancer depending on tumor stage and assay.
- FGFR tyrosine kinase inhibitors have shown clinical benefit in cancers with FGFR mutations, fusions or translocations.

			NFL - FOFR 1.2.3
FR 1.2.3.4)	0000	NL-FGFR 123
Lens FOFR1.2.3	Of	Dtic Nerve	00000 00000 00000 001-FGFR 12
Comea			IS-FGFR 1.3.4 OS-FGFR 1.4

Fig. 1 – Known expression patterns of the different fibroblast growth factor receptor isoforms throughout the human eye (partially adapted from Magone et al³⁰). Differential expression patterns throughout different retinal layers as reported by Kirby and Johnston 2004³¹ shown on the right. NFL = nerve fiber layer; GCL = ganglion cell layer; INL = inner nuclear layer; ONL = outer nuclear layer; IS = inner segments of rods and cones; OS = outer segments of rods and cones.

Drug	Study	Phase	Pts	Ocular toxicity reported (total number, percentage)
Bemarituzumab (FPA144)	Wainberg 2022	ц	76	Any cornea disorder (67%) Dry eye (20; 26%) Blurred vision (12; 16%) Keratitis (11; 14%) Punctate keratitis (10; 13%) Cataract (7; 9%) Limbal stem cell deficiency (6; 8%) Ulcerative keratitis (3; 4%)
CSR = central factor receptor Ocular toxiciti each study and misrepresenta 'Charng et al	serous ret ; RPE = retin es are listed l as originally tion of the de l reported opl	inopathy; al pigmer in decres specified scribe ad hthalmic	FGI nt epi asing in ea verse detail	R = fibroblast growth thelium. order of frequency for ch clinical trial to avoid events. s of the patients studied

					dose reduction	
s		Erdafitinib	3 m	Dry eye, corneal thinning OU, sterile ulcer OS, white cataract OU, secondary angle closure OS	Discontinuation	Topical lubrication, regenerating matrix therapy agent, serum tears laser indotomy, cutaract surgery
rowth		Erdafitinib	1 m	Dry eye, unilateral corneal thinning OS, white cataract OU, FGFRAR	Discontinuation	Topical lubrication, cataract surger
cy for	Shin 2020	ASP5878	55 d	Corneal dysmaturation. Diffuse opacification, epithelial staining along keratopathy demarcation	Discontinuation	NS
avoid		Bemarituzu- mab	73 d	Comeal dysmaturation, superior and inferior demarcations with fluorescein staining.	Discontinuation	NS
tudied		Bernarituzu- mab	68 d	Corneal dysmaturation	NS	NS
ansion	Hsu 2023	Erdafitinib	7 w	Severe meibomian gland dysfunction, trichiasis, corneal melt OU with bacterial superinfection	Discontinuation	Topical antibiotics, steroids, serun tears, wound healing agents
	NS = not sp	ecified: d = day	w w = we	ek: $m = month$: $O(1 = both eves; OD = right)$	teve OS = left eve	FGFRAR = fibroblast growth fact

NS = not specified; d = day; w = week; m = month; OU = both eyes; OD = right eye; OS = left eye; FGFRAR = fibroblast growth factor receptor inhibitor-associated retinopathy; FGFR = fibroblast growth factor receptor. Adverse events were graded using Common Terminology Criteria for Adverse Events v5.0 when specified.

ole 2 - Summary of cases reported with prominent corneal toxicity or findings associated with FGFR inhibitor use, by

Grade 2 epitheliopathy OU, trichomegaly

Grade 1 epitheliopathy OU, trichomegaly,

Grade 1 epitheliopathy, OU, deep demarcation

anterior capsular changes OU

line, trichomegaly OU, trichiasis OS Grade 3 epitheliopathy, recurrent erosions OD,

Grade 3 epitheliopathy OU

Dry eye, corneal thinning OU

trichomegaly

Drug intervention Treatment

Interruption

Interruption

Temporary

Temporary

discontinuation, cyclical

treatment restarted

discontinuation with

NS

Topical lubrication and steroids

Topical lubrication and steroids

Topical lubrication and steroids

Topical lubrication and steroids

Topical lubrication

Topical lubrication, steroids, serun

Wainberg ZA, et al. Lancet Oncol. 2022 Nov;23(11):1430-1440.

Su, Jerry et al. Survey of Ophthalmology, Volume 69, Issue 1, 34 - 41

portion of study



GY 69 (2024) 34-41

35

lication date.

ers 2021

Drug

Infigratinib

Infigratinib

Infigratinib

Infigratinib

Inforation

Erdafitinib

Time until Toxicity'

onset

84 d

98 d

117 d

87 d

108.4

3 m

Bemarituzumab

FIGHT Trial Design

Single dose of mFOLFOX6 during

1 Central testing: Immunohistochemical stain (Ventana): cut-off any

· Prior adjuvant or neo-adjuvant

2+/3+: circulating tumor DNA (PGDx): cut-off 1.5X 2 15mg/kg Q2W with a single 7.5mg/kg dose on Cycle 1 Day 8²

screening

chemotherapy

Fleitas T.

ESMO ON AIR

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Statistical Plan

Trial initially designed as registrational Phase 3 (n=548) with 2-sided a 0.05 Amended after enrolling n = 155 to a proof-of-concept Phase 2 with pre-specified statistical assumptions of,

- Hierarchical sequential testing: PFS, then OS/ORR
- + 284 events to demonstrate benefit at a HR≤0.76 for PFS at 2-sided α of 0.2

Summary of Selected Treatment-Emergent Adverse Events

Colortad Advance Events	Any	Grade	Grade ≥ 3			
Selected Adverse Events	Bema (N = 76)	Placebo (N = 77)	Bema (N = 76)	Placebo (N = 77)		
Preferred Term	76 (100.0%)	76 (98.7%)	63 (82.9%)	57 (74.0%)		
Nausea	36 (47.4%)	41 (53.2%)	0	3 (3.9%)		
Vomiting	22 (28.9%)	24 (31.2%)	2 (2.6%)	2 (2.6%)		
Diarrhoea	31 (40.8%)	24 (31.2%)	2 (2.6%)	1 (1.3%)		
Stomatitis	24 (31.6%)	10 (13.0%)	7 (9.2%)	1 (1.3%)		
Peripheral sensory neuropathy	15 (19.7%)	15 (19.5%)	4 (5.3%)	3 (3.9%)		
Neutrophil count decreased	31 (40.8%)	33 (42.9%)	23 (30.3%)	27 (35.1%)		
Platelet count decreased	14 (18.4%)	21 (27.3%)	1 (1.3%)	0		
Aspartate aminotransferase increased	23 (30.3%)	15 (19.5%)	4 (5.3%)	2 (2.6%)		
Alanine aminotransferase increased	22 (28.9%)	11 (14.3%)	2 (2.6%)	1 (1.3%)		
Dry eye	20 (26.3%)	5 (6.5%)	2 (2.6%)	0		

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RETTER MEDICE

Trial required corneal evaluation at baseline and every 8 weeks until the end of treatment

Wainberg ZA, et al. ASCO GI 2021; Lancet Oncol. 2022 Nov, 23(11) 1430-1440

Zanidatamab



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1141	nor	CEI	Geath	

Elimova E. ASCO GI 2023; Weisser NE, Nat Commun. 2023 Mar 13;14(1):1394.

Table 3: Summary of Treatment (Zanidatamab	Zanidatamab + CAPOX (n =20)		Zanidatamab + mFOLFOX6 (n = 24)		Zanidatamab + FP (n = 2)		Total (N = 46)	
related Adverse Events (TRAEs)	Any Grade	Grade ≥ 3	Any Grade	Grade ≥ 3	Any Grade	Grade ≥ 3	Any Grade	Grade ≥ 3
Any TRAE	20 (100)	9 (45)	24 (100)	18 (75)	2 (100)	1 (50)	46 (100)	28 (61)
Treatment-related SAE	2 (10)	2 (10)	5 (21)	5(21)	1 (50)	1 (50)	8 (17) b	8(17)
TRAEs leading to zanidatamab DC	0	0	3 (13)	1 (4)	0	0	3 (7) °	1 (2)
TRAEs, any Grade occurring	in ≥ 20% of p	atients or Gra	de≥3 in≥:	2 patients (I	based on the	e Total grou	ip)	
Diarrhea	18 (90)	6 (30)	23 (96)	9 (38)	2 (100)	1 (50)	43 (93)	16 (35)
Nausea	15 (75)	1 (5)	20 (83)	2 (8)	1 (50)	0	36 (78)	3 (7)
Peripheral neuropathy	14 (70)	0	14 (58)	0	0	0	28 (61)	0
Fatigue	6 (30)	0	14 (58)	2 (8)	0	0	20 (43)	2 (4)
Decreased appetite	7 (35)	0	12 (50)	0	1 (50)	0	20 (43)	0
Vomiting	4 (20)	1 (5)	11 (46)	3 (13)	0	0	15 (33)	4 (9)
Hypokalemia	2 (10)	0	11 (46)	7 (29)	0	0	13 (28)	7 (15)
Stomatitis	2 (10)	0	9 (38)	0	0	0	11 (24)	0
Neutrophil count decr.	3 (15)	0	7 (29)	3 (13)	0	0	10 (22)	3 (7)
Hypomagnesemia	3 (15)	0	6(25)	1(4)	0	0	9 (20)	1(2)
Dysgeusia	4 (20)	0	5(21)	0	0	0	9 (20)	0
Acute kidney injury	0	0	2(8)	1 (4)	1 (50)	1 (50)	3 (7)	2 (4)
WBC count decreased	0	0	7 (29)	3 (13)	Ó	0	7 (15)	3 (7)
Treatment-related AESIs occ	curring in any	patient						
Infusion-related reaction	6 (30)	0	3 (13)	0	1 (50)	0	10 (22)	0
Ejection fraction decr.	0	0	2 (8)	0	0	0	2 (4)	0
Pneumonitis	0	0	0	0	0	0	0	0

Data are reported as number of patients, n (%). a. All AEs were recorded using the Medical Dictionary for Regulatory Activities (MedDRA) with severity graded by investigators according to the National Cancer institute Common Terminology Criteria for Adverse Events version 5.0. b. Treatment-related SAEs: cliarrhea [3 patients], acute kidney injury (2 patients), vomiting (2 patients), hypokalemia [2 patients), bypomagnesemia (1 patient), nausea [1 patient), stomatikis (1 patient), upper Gi hernorrhage (1 patient) c. Treatment-related adverse events that led to discontinuation of zanidatamab: diarrhea (2 patients), contents).

AESI = adverse event of special interest; DC = discontinuation; SAE = serious adverse event; WBC = white blood cell.





New combination strategies

• LEAP 015: PEMBRO+ LENVATINIB

Figure 1. Study design



Weber P. et al. ASCO GI 2023

BETTER MEDICIN

ESMO ON AIR

CELLULAR THERAPY for Gastric Cancer



All patients experienced a grade 3 or higher hematologic toxicity. Grade 1 or 2 CRS occurred in 94.6% o. No grade 3 or higher CRS or neurotoxicities.

 (\triangleright) ESMO ON AIR

Qi C. et al, Nat Med 2022; Morris EC Nat Rev Immunol. 2022 Feb;22(2):85-96.



ADCs development

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Cell Death

	п	N	Incidence (95% CI)
Neutropenia	2371	7593	
Hypoesthesia	10	43	0,233 (0,106, 0,359)
Thrombocytopenia	864	3826	0.226 (0.213, 0.239)
Febrile neutropenia	388	1829	0.212 (0.193, 0.231)
Lymphopenia	180	859	0.210 (0.182, 0.237)
Vomiting.	13	63	0.206 (0.106, 0.306)
Oral hemorrhage	5	25	0.200 (0.043, 0.357)
Nausea	35	186	0.188 (0.132, 0.244)
Abnormal liver function	15	80	0.188 (0.102, 0.273)
Decreased appetite	30	162	0.185 (0.125, 0.245)
Mucosal inflammation	4	22	0.182 (0.021, 0.343)
WBC count decreased	108	637	0.170 (0.140, 0.199)
GGT increased	99	589	0.168 (0.138, 0.198)
Peripheral neuropathy	36	216	0.167 (0.117, 0.216)
Anacmia	627	3783	0.166 (0.154, 0.178)
Pleural effusion	10	64	0.156 (0.067, 0.245)
Rash	51	330	0.155 (0.116, 0.194)
AST increased	72	468	0.154 (0.121, 0.187)
Abdominal pain	16	109	0.147 (0.080, 0.213)
ALT increased	57	399	0.143 (0.109, 0.177)
Hypoalbuminemia	4	29 -	0.138 (0.012, 0.263)
Hypertension	9	66	0.136 (0.054, 0.219)
Leukopenia	157	1161	0.135 (0.116, 0.155)
Keratitis	14	105	0.133 (0.068, 0.198)
Bilirubin increased	8	60	0.133 (0.047, 0.219)
Hypokalemia	21	168	0.125 (0.075, 0.175)
Sepsis	20	165	0.121 (0.071, 0.171)
Diarrhoea	35	289	0.121 (0.083, 0.159)
Dehydration	13	108	0.120 (0.059, 0.182)
Fatigue	86	739	0.116 (0.093, 0.139)
Dyspnea	14	99	0.111 (0.049, 0.173)
Vision blurred	10	90	0.111 (0.046, 0.176)
Hyponatremia	8	75	0.107 (0.037, 0.177)
Hypophosphatemia	18	172	0.105 (0.059, 0.150)
Pericardial effusion	4	42 -	0.095 (0.006, 0.184)
Pneumonia	4	44 -	0.091 (0.006, 0.176)
		0	0.5

Figure 1. Mechanisms of ADC toxicity. Uptake of intact ADCs into normal cells may occur through non-specific endocytosis, or through internalization upon binding to the target antigen or to Fc/C-type lectin receptors. Payloads released from ADC deconjugation or other targeted/non-targeted apoptotic cells in the extracellular fluid may also enter normal cells via passive diffusion for membranepermeable payloads or via non-specific endocytosis for membrane-impermeable linker-payload adducts. Created with BioRender.com.

Drug release

Nº.

Lysosomal catabolism =

FIGURE 5 The incidence of most common grade ≥3 adverse events. ALT indicates aspartate aminotransaminase; AST, alanine aminotransferase; GGT, gamma-glutamyl transpeptidase; WBC, white blood cell.



ESMO ON AIR Klein C, et al. Nat Rev Drug Discov. 2024 Apr;23(4):301-319 ; Nguyen TD, et al. Cancers (Basel). 2023 Jan 24;15(3):718; Zhu Y, Cancer. 2023 Jan 15;129(2):283-295.

Cytotoxic payloa

Healthy non-targeted cell

- New combination strategies including chemotherapy + targeted therapies + immunotherapy had improved the outcomes for gastric cancer patients.
- The baseline assessment and support is essential for the therapeutic decision according to the patient condition, a good tolerance and QLQ during treatment.
- The knowledge of the common toxicities and prevention actions to avoid or minimise them is our responsibility. The key is to find the optimal balance between benefit and toxicity, taking into account the patient's background and the tumor characteristics





