



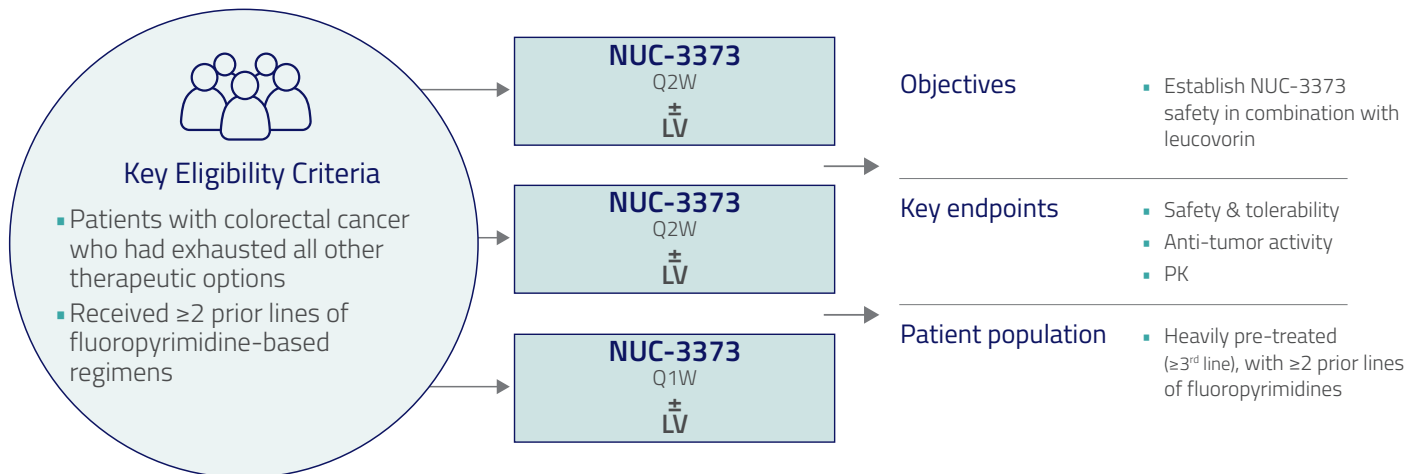
COMPLETE



NUTIDE:302 - PART 1

COLORECTAL CANCER - PHASE 1b STUDY

Designed to assess the safety of NUC-3373 in combination with leucovorin



Number of patients
38

Age (median)
58
(range 33-75)

Prior chemotherapy regimens (median)
4
(range 2-13)

Sex	Male	21 (55%)
	Female	17 (45%)
ECOG PS	0	19 (50%)
	1	19 (50%)
Metastatic sites, n	1-3	19 (50%)
	≥4	19 (50%)
Prior anti-VEGF inhibitor	Yes	22(58%)
	No	16 (42%)
Prior anti-EGFR inhibitor	Yes	19 (50%)
	No	19 (50%)

Berlin *et al* (2021) Ann Oncol; 32: Suppl 5 Abstract ID 745P (ESMO September 2021). Data cut-off: April 15, 2021

Favorable safety profile compared to 5-FU

- NUC-3373 was well tolerated in patients who had exhausted all other therapeutic options
 - Low rates of Grade 3 or 4 toxicities, particularly those associated with FUTP and FBAL (i.e. neutropenia, diarrhea, mucositis/stomatitis and hand-foot syndrome)

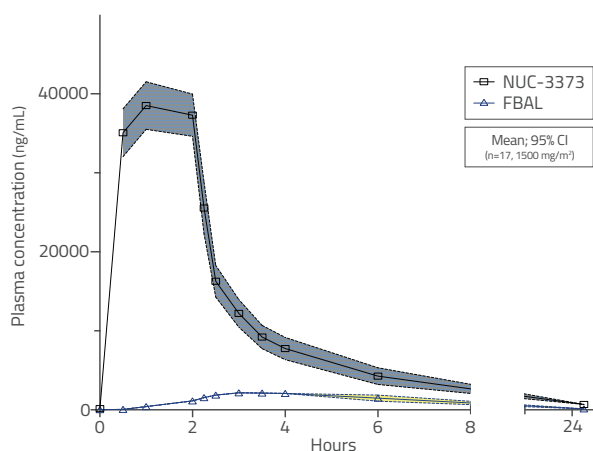
	5 th line treatment (median)		1 st line treatment					
	NUC-3373 (n=38) ¹		5-FU Bolus (n=219) ²		5-FU CIV (n=143) ²		Capecitabine (n=596) ³	
	All Grades, n(%)	G3 or G4, n(%)	All Grades, n(%)	G3 or G4, n(%)	All Grades, n(%)	G3 or G4, n(%)	All Grades, n(%)	G3 or G4, n(%)
Neutropenia	0	0	99	67	48	13	13	3
Anemia	18	5	99	6	91	2	80	3
Diarrhea	32	0	70	13	45	6	55	15
Nausea	45	5	68	8	55	4	43	4
Vomiting	42	0	46	4	32	3	27	5
Mucositis/stomatitis	11	0	76	17	29	3	25	3
Hand-foot syndrome	0	0	NR	NR	13	1	54	17
Dermatitis	11	0	30	1	20	0	27	1
Fatigue/asthenia	47	5	65	12	48	4	42	4
Elevated bilirubin	11	5	92	8	36	11	48	23

NUC-3373 treatment emergent adverse events, selected relevant to comparator data. NR: not reported. CIV: Continuous Intravenous Infusion
1. Berlin *et al* (2021) Ann Oncol; 32: Suppl 5 Abstract ID 745P (ESMO September 2021). Data cut-off: April 15, 2021 2. Camptosar Label 3. XELODA label

Improved pharmacokinetic profile compared to 5-FU

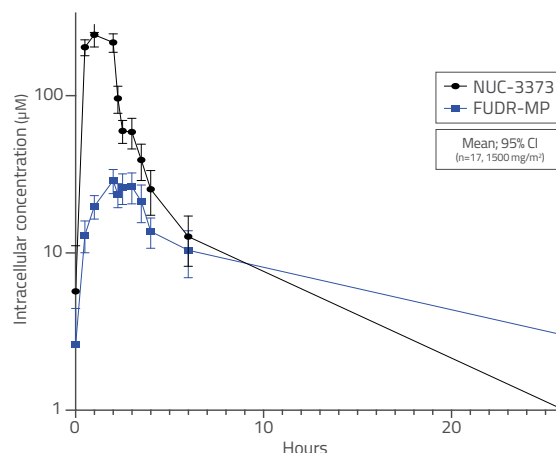
Plasma

- Long half-life compared to 5-FU (6-14 hrs vs 8-14 mins)
- Large volume of distribution indicating extensive tissue absorption compared to 5-FU (190 L vs 17 L)



Intracellular

- High levels of FUDR-MP compared to 5-FU (31 μM vs 0.1 μM)
- Long half-life of FUDR-MP (12-20 hrs)



Favorable metabolite profile compared to 5-FU or capecitabine

	NUC-3373	5-FU	Capecitabine
Intracellular FUDR-MP (pmol/10 ⁶ cells)	11.7 ¹	0.04 ²	<LLOQ ²
Intracellular FUTP (pmol/10 ⁶ cells)	<0.001 ^{1*}	1-3 ³	0.086 ³
Plasma FBAL (AUC) (μg.h/mL per month)	51 ¹	N/A	958 ⁴

- No FUTP (the 5-FU and capecitabine metabolite that has been implicated in toxicities including neutropenia, mucositis and diarrhea) has been detected in patients treated with NUC-3373
- Low levels of FBAL (the 5-FU and capecitabine metabolite implicated in hand-foot syndrome, cardiotoxicity and neurotoxicity) have been observed in patients treated with NUC-3373

1. NuCana data on file; 2. Derissen et al (2015) J Pharm Biomed; 110; 3. Derissen et al (2016) Br J Clin Pharmacol; 81(5) 4. Gieschke et al (2003) Br J Clin Pharmacol; 55(3)
 *Below the level of detection; N/A- data not available to our knowledge

Encouraging signs of efficacy in patients who had exhausted all other treatment options



67 YRS

Colorectal Cancer

Prior lines of therapy

- CAPOX (adjuvant): for 3 months relapsed 9 months post-adjuvant therapy
- FOLFIRI: progressed within 3 months
- Lonsurf: progressed within 3 months

NUC-3373 2500 mg/m² Q1W
 Partial response 3.5 months
 40% reduction in target lesion



69 YRS

Colorectal Cancer

Prior lines of therapy

- CAPOX: progressed within 2 months tumor increase of 35%
- FOLFIRI: progressed within 1.5 months

NUC-3373 1500 mg/m² Q1W
 Stable disease 5.1 months*
 28% reduction in tumor volume



52 YRS

Colorectal Cancer

Prior lines of therapy

- FOLFOX (adjuvant): for 4 months relapsed 4 months post-adjuvant therapy
- FOLFIRI: progressed within 6 months
- Irinotecan + panitumumab: progressed within 6 months
- Irinotecan + panitumumab + telaglenastat: progressed within 6 months
- Nivolumab + enadenotucirev: progressed within 3 months

NUC-3373 1500 mg/m² Q2W
 Stable disease 4.5 months
 15% reduction in tumor volume

*patient missed 6 consecutive doses due to COVID-19 and progressed, but continued on study for a total of 8 months due to clinical benefit

Graham et al (2020) Ann Oncol 31: Suppl 4 Abstract ID:464P (ESMO September 2020). Data cut-off: August 14, 2020 Coveler et al (2021) J Clin Oncol 39: Suppl 3 Abstract ID: 93 (ASCO GI January 2021). Data cut-off: November 26, 2020

Key takeaways

NUC-3373 has shown encouraging signs of anti-tumor activity in a heavily pre-treated patient population

NUC-3373 has a favorable safety profile

NUC-3373 has a long plasma half-life & generates high intracellular levels of active anti-cancer metabolite