

Discussion LBA 20-21

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RELEVANCE

NORDIC 7

Large scale R
phase III N=600

Impact on practice:

- cetuximab 1st line
- Duration of CT

HH GDC-0449

R phase II N = 200

Impact on drug
development:

- go no-go in CRC

The results: NORDIC (n = 566)

	<u>RR</u>	<u>PFS</u>	<u>OS</u>	<u>TOX</u>
FLOX	41	7.9	20.4	
FLOX CET	49	8.3	19.7	more
maintenance	47	7.3	20.3	

no better outcome in the K-RAS wt population !!!

NORDIC major findings

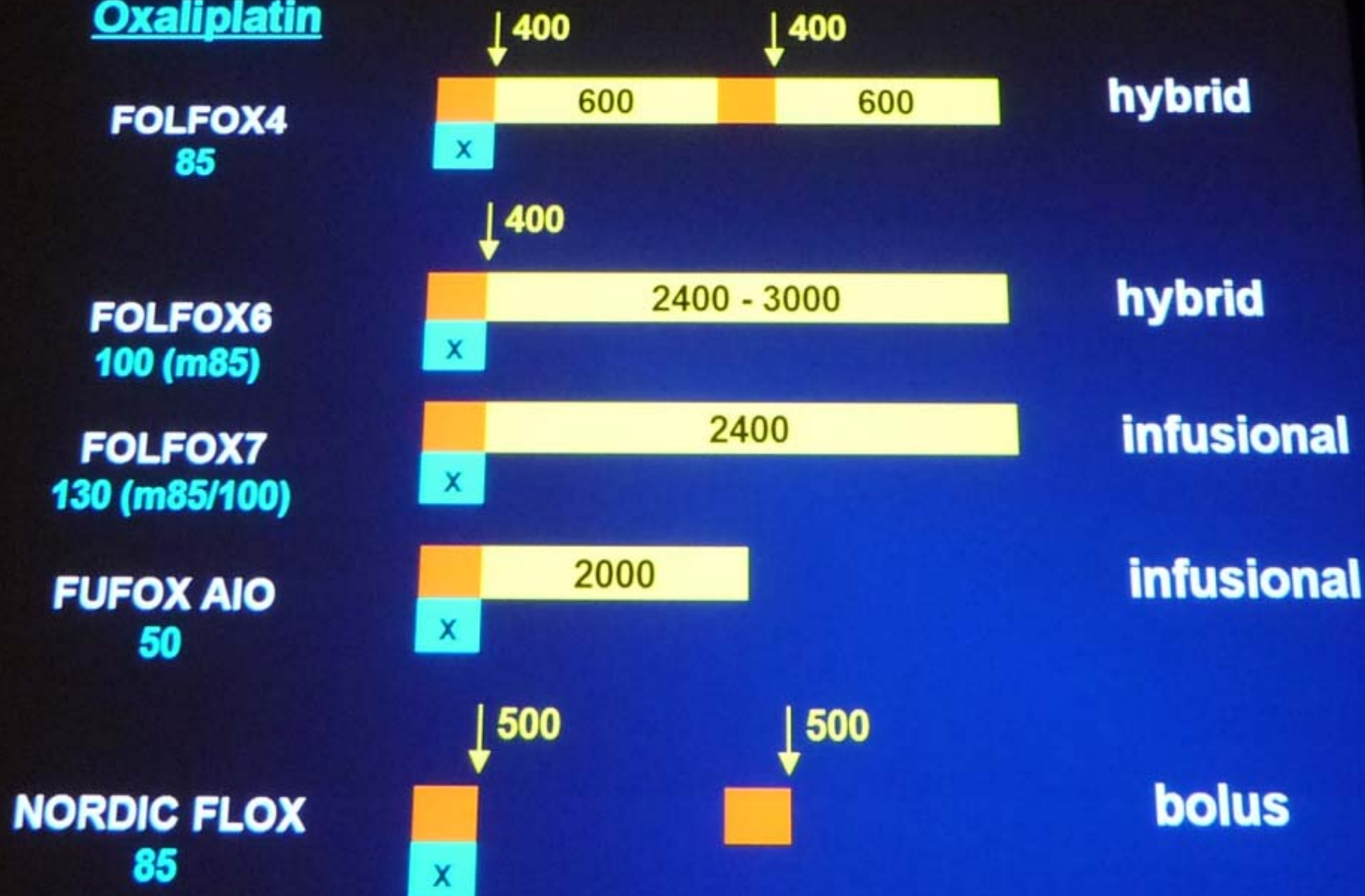
- **Efficacy results: overall, negative**
- **K-RAS wt : no benefit**
- **Concept of intermittent CT reinforced**

NORDIC

- **Underpowered for K-RAS**
- **Backbone CT regimen**

The jungle of FU LV OX combinations

Oxaliplatin



Why

1. **Bias**
2. **Chance**
3. **True interaction**

K-RAS STORY: NORDIC AGAINST ALL?

- **Only NORDIC reported lower RR and PFS in K-RAS wt than in mut out of 11 trials**
- **49% RR is the highest ever reported for K-RAS mut**

K-RAS results : Just chance ?

		OR	95% C.I.	
• RR				
• ITT	566	1.35	0.9	2.02
• Wt	303	0.96	0.55	1.69
• Mut	195	1.44	0.72	2.90

		HR	95% C.I.	
• PFS				
• ITT	566	0.89	0.7	1.11
• Wt	194	1.07	0.79	1.45
• Mut	130	0.71	0.5	1.03

True negative interaction between cetuximab and FU + oxaliplatin ?

The fact that the results in the K-Ras wt population are no better than ITT reinforces the possibility of a true negative interaction:

- With bolus FU ?**
- With oxaliplatin ?**

Does the administration mode of fluoropyrimidines play a role? (PFS) K-RAS wt population

	CT	CT + bio	HR	p
Continuous infusion FU				
CRYSTAL	8.4	9.9	0.67	0.001
OPUS	7.2	8.3	0.57	0.006
PRIME	8.0	9.6	0.80	0.02
Bolus FU				
NORDIC VII	8.7	7.9	1.07	0.66

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PRIME	8.0	9.6	0.80	0.02
COIN MdG	n.a	n.a	0.77	0.056
COIN xelox	n.a	n.a	1.06	0.5
Bolus FU				
NORDIC VII	8.7	7.9	1.07	0.66

Is Irinotecan a better partner for cetuximab than oxali in 1st line?

		FOLFOX plus cetuximab	FOLFIRI plus cetuximab
CELIM¹ ITT (n=106)	RR	68%	57%
CALGB 80203² ITT (n=108)	RR	60%	44%
	PFS	8.2	10.6
CECOG KRAS wt (n=62)	RR	56%	50%
	PFS	9.1	8.4

¹ Folprecht et al., Lancet Oncol 2010; 11: 38-47

² Venook et al, ASCO 2006 , oral presentation, abstract no.3509

³ Ocuvirk et al., World J Gastroenterol 2010; 16:3133-3143

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**Direct comparison very weak →
whole story**

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Is Irinotecan a better partner for cetuximab than oxali ?

IRINOTECAN

- **III line ++ BOND (MLE)**
- **II line ++ EPIC**
- **I line +++ CRYSTAL**
- **No detrimental effect mut**

OXALIPLATIN

- **III line no data**
- **II line - little data**
- **I line ++ OPUS**
- **+ COIN**
- **- NORDIC**
- **Adjuvant - NO146**
- **Detrimental effect in mut**

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Very solid

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shaky

Why

- 1. Bias**
- 2. Chance**
- 3. True interaction**

no...

hmm...

likely

CONCLUSIONS

- **NORDIC**

- **Impact on practice : yes**
 - **Iri-based CT should be the partner of cet**
 - **Another piece of evidence against continuing CT untill progression**

- **HH GDC-0449**

- **Impact on drug development in CRC: yes**
 - **no-go**