# # A59 Phase III trial of chemotherapy with or without irinotecan in the front-line treatment of metastatic colorectal cancer in elderly patients. FFCD 2001-02 trial. Results of a planned interim analysis. <u>E Mitry<sup>1</sup>, JM Phelip<sup>2</sup>, F Bonnetain<sup>3</sup>, S Lavau Denes<sup>4</sup>, X Adhoute<sup>5</sup>, M Gasmi<sup>6</sup>, JL Jouve<sup>7</sup>, F Khemissa<sup>8</sup>, T Lecomte<sup>9</sup>, T Aparicio<sup>10</sup></u>

# **ABSTRACT**

#### Background

Metastatic colorectal cancer (mCRC) most frequently occurs in elderly patients (pts), but these are less frequently treated with chemotherapy (CT) than younger ones. Subgroup analyses from previous trials suggested that pts between 70 and 74 years of age, who are well enough to meet eligibility requirements for phase III trials, derive similar benefits as younger pts. We report the results of the planned interim analysis of a phase III trial in elderly pts with mCRC receiving a 5FU-based CT, with or without irinotecan.

#### Methods

Elderly pts (75+) with previously untreated mCRC were randomly assigned to receive a 5FU-based CT, either alone (FU arms: LV5FU2 or simplified LV5FU2) or in combination with irinotecan (IRI arms: LV5FU2-CPT11 or FOLFIRI). Stratification criteria were: center Charlson index (0 vs 1-2 vs 3+), Karnofsky index (100 vs 90-80 vs 70-60), previous adjuvant CT, sex, age (< 80 vs.  $\geq$  80 yrs), alkaline phosphatases ( $\leq$  2N vs. > 2N). Primary endpoint was progression free survival (PFS). It was required to observe 240 progressions or deaths and to include 282 pts to demonstrate an improvement of PFS from 9 to 12 months (33% increase) in the IRI arm with bilateral 5% type I error and a power of 80%. Secondary endpoints were overall survival, safety, tumor response, Spitzer OOL index and geriatric evaluation.

#### Results

Between 06-2003 and 08-2007, 196 pts were randomized and 142 pts with at least 8 weeks of follow-up were retained for interim analysis (FU: 75, IRI: 67). Median age: 79.5 years [range: 74-91]. Age ≥80: FU 48%, IRI 49%. Karnofsky index 60-70/80-90/100 (%) FU: 29/51/19, IRI: 25/61/10. Charlson index 0/1-2/3+ (%) FU: 48/43/7, IRI: 63/33/3. Metastatic sites FU/IRI (%): liver 77/84, lung 39/46, peritoneum 15/18, lymph nodes 27/24. Tumoral response (best response observed after 2 evaluations) OR/SD/PD/NE (%) FU: 18/51/25/5, IRI: 31/57/9/1. Maximal toxicities by patients observed during cycles 1 to 4 are presented in the table. There was no toxic death. All pts received at least one dose of chemotherapy. Pts having received  $\geq$ 75% of the CT dose during cycles 1 to 4 FU/IRI (%): bolus 5FU 81/67, continuous 5FU 80/87, irinotécan -/87.

#### Conclusions

A phase III trial specific to elderly patients with mCRC is feasible. Preliminary results suggest that patients aged of 75+ years can be treated with standard CT regimens with manageable toxicity.

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# Introduction

#### CRC is a disease of elderly

- Median age at diagnosis: 73 years (SEER)

#### A Public Health problem

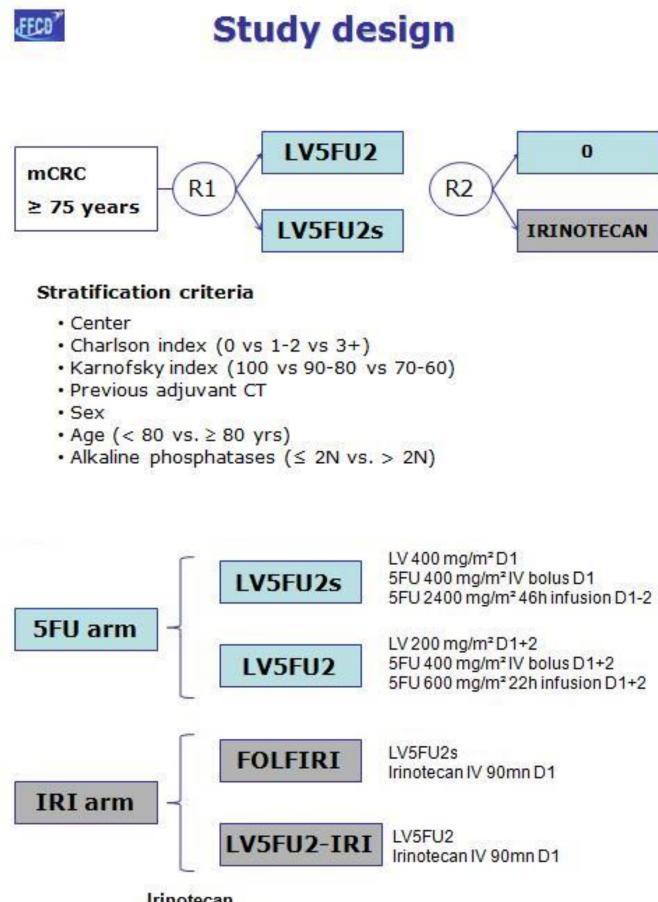
- US population  $\geq 65$  y. : x2 in 2030
- Suboptimal management
- No improvement in survival

### Palliative CT in elderly

- Standard regimens not prospectively validated
- Subgroup analyses, phase II trials suggest feasibility in fit elderly

### • Which optimal regimen in 1<sup>st</sup> line ?

- Tolerance/Efficacy
- Combination with IRI/OXA or 5FU only ?



Irinotecan

- 150 mg/m<sup>2</sup> for C1 and C2

- 180 mg/m<sup>2</sup> ≥ C3 if toxicity ≤ grade 2 (except. alopecia)

#### Main inclusion criteria FEC0

- Histologically confirmed unresectable mCRC
- Age ≥75 years
- Karnofsky index ≥60
- Estimated life expectancy > 6 months
- $\geq$  1 bi-dimensionally measurable lesion (RECIST)
- No previous CT for metastatic disease
- Adjuvant therapy allowed if stopped at least months before randomization
- Adequate organ and bone marrow function
- Creatinin clearance  $\geq$  45 ml/mn (Cockroft)
- Signed informed consent

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# Study endpoints

## Primary endpoint

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## Progression-free survival

- 5FU arm vs IRI arm
- as assessed by blinded independent review
- events : progression or death

## Secondary endpoints

- Overall response rate (independently reviewed)
- Overall survival (events: deaths all causes)
- Quality of life (Spitzer scale)
- Geriatric assessment (IADL, Mini Mental State Examination, Geriatric Depression Scale)
- Safety
- Comparison of simplified vs. non simplified regimen

#### Statistical considerations FECD

## Assumption for sample size calculation

- 240 progressions or deaths (282 pts)
- increase of median PFS from 5.5 to 8 months in the IRI arm, HR 0.70
- bilateral 5% type I error, 80% power

## Planned interim analysis

- After inclusion of 140 pts with  $\geq$  8 weeks of follow-up
- Tolerance and response (investigators)
- Only descriptive, no statistical comparisons
- IDMC

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# Population

- 06/2003 12/2007 : - 209 pts included
- Interim analysis 08/2007
- 166 pts included
- -142 pts with  $\geq 8$  weeks of follow-up

# Baseline ch

- Median age years [range Age group (%) <80 yrs ≥80 yrs Gender (%) Male/Female
- Karnofsky index (%) 100/80-90/60-70/m Charlson index (%)
- 0/1-2/3+/missing
- Alkaline Phosphatases  $\leq 2N / > 2N$ Adjuvant CT (%) Metastatic sites (% Liver Lung Distant lymph node
- Peritoneum

# FECD"

# Administration

- - (%) Bolus 5F
  - Continuous
  - Irinoteca

# FECD"

- As estimated by investigators
- RECIST criteria
- Best observed response after 1<sup>st</sup> or 2<sup>nd</sup> evaluation

(%)	ţ
CR	1
PR	17
SD	51
PD	25
NE	5

# R2 IRINOTECAN

							12.20		
٦.		-		CT	0		C		CC
			<b>C</b> 2	L.L					CS
-	-	1.1		-		-	S 10	100	

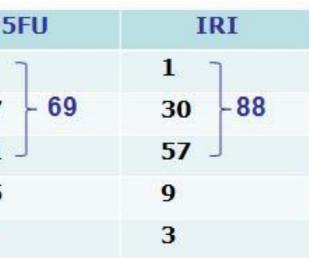
	5FU	IRI
	75	67
e]	79 [74-90]	80 [75-91]
	52	51
	48	49
	53/47	51/49
nissing	19/51/29/1	10/61/25/3
	48/43/7/3	63/33/3/1
(%)		
	88/12	85/15
	17	6
	77	84
	39	46
es	27	24
	15	18

## All pts received at least one cycle

Pts with ≥75% of the planned CT dose during cycles 1 to 4

	5FU	IRI
Ū	81	67
5FU	80	87
an	-	87

# **Tumoral response**



## FECD

## Deaths

- 81 deaths
- 5FU: 43 (57% of pts)
- IRI: 38 (57% of pts)
- Causes of death
- Progression
- 5FU: 37/43 (86%)
- IRI: 33/38 (87%)
- 2 toxic deaths

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60d mortality rate: 12.7%

# Conclusion

- Preliminary and descriptive
- A phase III trial specific to elderly patients with mCRC is feasible
- Results suggest that patients aged of 75+ years can be treated with standard CT regimens with manageable toxicity



# Toxicity

#### Maximal toxicities by patient observed during cycles

(%)	All gra	ndes	Grade 3-4	
	5FU	IRI	5FU	1
Any	93	98	16	4
Anemia	47	60	1	
Neutropenia	13	66	1	
Febrile neutropenia	0	9	0	

(%)	All gra	Grade	
	5FU	IRI	5FU
Nausea	37	48	0
Vomiting	19	30	0
Diarrhea	39	63	0
Thromboembolic event	1	3	1
Asthenia	32	48	3
Mucositis	17	21	0
Myocardial infarction	1	0	1

#### Serious adverse events FFCD

68 SAE among 54 pts (38%)

	All	5FU	IRI
SAE	54	28	25
Death	14	8	6
Not related	7	5	2
Unlikely related	2	0	2
Possibly related	2	2	0
Related	2	1*	1°
ND	1	0	1



1 to 4
\$
IRI
48
3
28
9
3-4
IRI
6
6
16
3
6
0
0

### \* Febrile neutropenia, ° severe diarrhea

