

Impact of the IDEA Collaboration Study Results on Clinical Practice in France for Patients With Stage III Colon Cancer: A National GERCOR - PRODIGE Survey

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1 Original research

2 Title:

- 3 Impact of the IDEA collaboration study results on clinical practice in France for stage III colon
- 4 cancer patients: a national GERCOR PRODIGE survey

5 Short title:

6 IDEA collaboration results in real-life practice

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49 MICRO-ABSTRACT

- 50 The IDEA study showed that the type and duration of adjuvant chemotherapy might be adjusted
- 51 according to level of risk in stage III colon cancer. Hereby, we show that it has been mainly
- 52 integrated in routine practice in France with a switch from six to three months and from
- 53 FOLFOX to CAPOX regimen in low-risk stage III colon cancer patients.

54 CLINICAL PRACTICE POINTS

- The prospective, pre-planned pooled analysis of six concurrently conducted randomized phase
 III trials (IDEA collaboration) was built to evaluate the non-inferiority of three months of
 adjuvant treatment with oxaliplatin plus fluoropyrimidine to the six-month standard duration of
- adjuvant deathent with oxampiatin plus hubropyrimidine to the six-month standard duration of

therapy for stage III colon cancer patients. Although the non-inferiority was not confirmed in

- 59 the overall population, the IDEA study showed that the type (and duration of treatment may be
- 60 adjusted according to the level of risk (low risk pT1-3/N1 versus high risk pT4 and/or N2).
- 61 We realized a nationwide survey in France, one year after the publication of the IDEA
- 62 collaboration results. We show that a shortened duration of adjuvant treatment using CAPOX
- 63 for three months has been integrated in France as standard of care for low risk stage III colon
- 64 cancer patients by most physicians. Six months of FOLFOX remains the standard treatment for
- 65 the high-risk population.

58

66 ABSTRACT

- 67 Background: The IDEA collaboration showed that the type and duration of adjuvant
- 68 chemotherapy in stage III colon cancer (CC) could be adjusted according to level of risk. We
- 69 aimed at evaluating the implementation of IDEA's results in real-life practice for stage III CC.
- 70 Material and methods: All clinicians registered in the French oncology cooperative groups
- 71 GERCOR, FFCD and UNICANCER GI mailing lists were invited to participate to an online
- 72 anonymized nationwide survey from January 30, 2019 to March 31, 2019. Proportions were
- 73 compared using chi-squared test.
- 74 Results: A total of 213 physicians answered the survey. 173 (81%) considered that three
- 75 months of adjuvant chemotherapy was the new standard of care for low risk (pT1-3/N1) stage
- 76 III CC and 99% that six months remained the standard of care for high risk (pT4 and/or pN2)
- 77 stage III CC. In patients under 70 years, CAPOX for three months was prescribed by 74% of
- 78 the participants in low risk CC while six months of FOLFOX was preferred for high risk CC in
- 79 94% cases. For patients over 70 years with good performance status and no comorbidities, 172
- 80 physicians (81%) prescribed oxaliplatin-based chemotherapy for low risk CC (3 months: 144
- 81 out of 172, 88%), and 200 physicians (94%) prescribed oxaliplatin-based adjuvant
- 82 chemotherapy for high risk CC (6 months: 199 out of 200, 99%).
- 83 Conclusion: IDEA results have been practice changing as French physicians have implemented
- 84 three months CAPOX for low risk stage III CC patients, substituting six months FOLFOX
- 85 which remains the preferred regimen for high risk patients.

86 INTRODUCTION

87 Six months of adjuvant chemotherapy with oxaliplatin plus a fluoropyrimidine has been the

88 standard of care for stage III colon cancer (CC) patients since 2004 (1-4). However, the

89 cumulative neurotoxicity related to the use of oxaliplatin led to the evaluation of a shortened

oduration of adjuvant chemotherapy in this setting.

91 The IDEA (International Duration Evaluation of Adjuvant Therapy) collaboration study

2 showed that the type and duration of adjuvant chemotherapy in stage III CC might be adjusted

93 according to the level of risk (low risk: pT1-3 and pN1; high risk: pT4 and/or pN2) (5).

94 Although the study did not demonstrate the non-inferiority of three months versus six months

95 of adjuvant chemotherapy in the overall population for Disease Free Survival (DFS) (HR 1.07,

96 95% confidence interval (95%CI) 1.00-1.15), the non-inferiority of CAPOX (capecitabine plus

7 oxaliplatin) for three months was demonstrated for low risk stage III CC patients, which

98 represent 59% of the entire stage III population.

99 International guidelines (6)(7)(8) have been updated accordingly but data concerning the

100 implementation of IDEA conclusions in real-life adjuvant chemotherapy prescriptions are

101 lacking. We aimed at assessing the impact of IDEA study on daily practice for stage III CC in

102 France.

103 MATERIAL AND METHODS

104 Physicians registered in three French cooperative groups (FFCD, Fédération Francophone de

105 Cancérologie Digestive; GERCOR, French Multidisciplinary Group in Oncology; UCGI,

106 Unicancer Gastrointestinal Group) were invited to fill in an online questionnaire

107 (supplementary material). Reminder emails were sent every 2 weeks. The survey was composed

108 of 24 questions, related to daily practices. Clinicians were asked which modality of adjuvant

Commenté [RC1]: Réf à fusionner

chemotherapy (FOLFOX or CAPOX, three months or six months) they would choose in different clinical settings. A 5-point Likert scale was also used (from 1, strongly disagree, to 5, strongly agree) to evaluate IDEA's impact on their daily clinical practice. Participants were also asked to indicate the preferred venous access (peripheral or central access) and device (PICC-113 line or implanted port). Answers were declarative, individual, and anonymized. Proportions were compared using chi-squared tests. The level of significance was p<0.05.

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116 RESULTS

Demographic characteristics are displayed in Table 1. 198 of them completed the survey in its entirety. 63% of the participants agreed or strongly agreed that IDEA study had an impact on their clinical practice, whereas 17% disagreed or strongly disagreed. 75% declared that three months of CAPOX was the new standard of care for low risk stage III CC and 99% that six months of adjuvant chemotherapy remained the standard of care for the high risk population.

213 physicians participated to the survey from January 30, 2019 to March 31, 2019.

123 Patients under 70 years

For low-risk stage III CC patients adjuvant chemotherapy was prescribed for 3 months by 84% of the responders, with a majority of CAPOX regimen (75% vs. 8% with FOLFOX); a six-month duration of adjuvant chemotherapy was chosen by 16% of physicians (with FOLFOX only) (figure 1).

For high-risk stage III CC patients, 94%, 6% and 0.5% of physicians prescribed FOLFOX for

six months, CAPOX for six months or FOLFOX for three months, respectively.

130 Patients over 70 years (figure 2)

ECOG PS 0-1 and no comorbidity

Commenté [RC2]: Si tu le mets là, on peut le retirer des méthodes

- 132 For patients > 70 with good PS and low risk stage III CC, oxaliplatin-based chemotherapy was
- 133 prescribed by 81% of physicians, for three (68%) or six months (13%). 18% of responders
- chose fluoropyrimidine monotherapy for three (3%) or six months (15%).
- 135 In case of high-risk stage III CC, adjuvant chemotherapy was prescribed for six months by 99%
- of responders, mainly with doublets (94% while 6% chose fluoropyrimidine monotherapy).

ECOG PS > 1 and/or with comorbidities

- 138 In older patients with altered PS or comorbidities, in case of low-risk stage III CC, 13%, 61%,
- and 25% of the participants declared to prescribe no adjuvant chemotherapy, fluoropyrimidine
- 140 monotherapy, or oxaliplatin-based chemotherapy, respectively. Oxaliplatin-based adjuvant
- 141 chemotherapy was proposed for three months by most clinicians (65%).
- 142 In the high-risk population with ECOG PS > 1 or comorbidities, 3%, 44% and 51% declare to
- 143 prescribe no adjuvant chemotherapy, a fluoropyrimidine alone, or oxaliplatin-based
- 144 chemotherapy (94% for 6 months), respectively.

145 Venous access

137

- 146 In patients with appropriate venous capital, CAPOX for three months was administered without
- 147 central venous access device (CVAD) for two third (66%) of the participants, using an
- 148 implantable port (21%) or a PICC-line (12%).

149 DISCUSSION

Our study is the first to report real life practices for stage III CC patients after the publication 150 of the IDEA study. We show that the modulation of adjuvant chemotherapy duration and type 151 according to the level of risk has been adopted as standard of care in France for stage III CC. 152 153 Our results are in line with a survey realized among the Australia and New Zealand SCOT's participants. It reported that the expected minimum survival benefit warranted to choose a six-154 month ACT rather than three-month duration was much larger than the estimates of the IDEA trial (9). One might have hypothesized that the CAPOX might not be easily integrated into daily 156 practice in France since FOLFOX was prescribed by a vast majority of French physicians before 157 (90% in the IDEA France trial (10)). Although the FOLFOX regimen remained largely 158 prescribed for high-risk stage III CC patients, the combination of capecitabine and oxaliplatin 159 was the main choice for low risk stage III CC patients in this survey, showing how much impact IDEA had on real-life patients' care. 161 Oxaliplatin-based adjuvant chemotherapy was mostly prescribed for older patients with good 162 PS (80%-90%) and, to a lesser extent, for patients with comorbidities and high-risk CC (50%). 163 However, there is no clear evidence that the addition of oxaliplatin to fluoropyrimidine is 164 associated with an improvement of DFS or overall survival, as it has been shown in a pooled 165 analysis of MOSAIC, NSABP C-07 and XELOXA trials (N = 1119; DFS hazard ratio (HR) = 166 0.94, 95% confidence interval (95%CI) 0.78-1.13 and OS HR = 1.04, 95%CI 0.85-1.27) 167 (12,13). Though, another analysis from NSABP C-08, XELOXA, X-ACT and AVANT trials 168 did detect a significant improvement of DFS and OS in patients > 70 treated with XELOX or 169 FOLFOX (14). The prescription of doublet adjuvant chemotherapy in fit elderly patients observed in our survey remains to be properly evaluated in dedicated clinical trials, such as the 171 PRODIGE 34 phase III study (NCT023553790).

One third of the physicians used CVAD for patients treated with CAPOX for three months, 173 despite good venous capital. The feasibility of treating patients with CAPOX on a peripheral 174 venous access for three or six months has been demonstrated in an analysis of 203 patients included in the IDEA France study: CAPOX adjuvant chemotherapy without a CVAD was 176 successful in 88.4% of patients for whom chemotherapy had been planned without the use of 177 178 CVAD (15). The reasons for such a high use of central venous devices need to be explored. Our study exhibits several weaknesses. First, the study population might have been biased by 179 180 its selection through the cooperative groups networks, even if it is representative of the current French medical demography (16), with physicians working in different types of institution, with 181 various levels of experience and different medical specialty backgrounds. We acknowledge 182 that the declarative nature of our study might have biased the results. We observed that the use 183 184 of CAPOX for 3 months was lower than the proportion of physicians declaring this treatment as the new standard of care: 44% of physicians declared they had prescribed it for their last 5 185 patients with low risk stage III tumor while 75% of them considered CAPOX 3 months as the 186 new standard of care for this population. Therefore, analyses of prospective cancer registries 187 are required to validate our study. Besides, it would be interesting to evaluate if the recent 188 release of OS data from the IDEA study reinforced the observed changes in routine practice (17). 189 190 To conclude, adjuvant chemotherapy with CAPOX for three months has been mainly integrated as a new standard of care for low-risk stage III CC. FOLFOX for six months remains the 191 preferred choice of prescribers for high-risk patients in France.

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29

1 FIGURES AND TABLES CAPTIONS

- 2 Table 1: Population characteristics
- 3 Figure 1: Type and duration of adjuvant chemotherapy for patients under 70 with low risk stage
- 4 III colon cancer
- 5 Figure 2: Type and duration of chemotherapy for patients > 70 with low risk or high risk stage
- 6 III colon cancer, depending on performance status and comorbidities

<u>Table 1 : Population characteristics</u>

	N (%)
Participants	213 (100)
Specialty	
Gastroenterologist	109 (51.2)
Medical oncologist	84 (39.4)
Radiation therapist	10 (4.7)
Surgeon	10 (4.7)
Workplace	
Academic hospital	65 (30.5)
General Hospital	57 (26.8)
Comprehensive cancer center	56 (26.3)
Private clinic	35 (16.4)
Experience in gastro-intestinal cancers	
< 5 years	28 (13.1)
5 – 10 years	40 (18.8)
10 – 20 years	75 (35.2)
> 20 years	70 (32.9)
Number of stage III colon cancer patients	
< 4 per year	10 (4.7)
4 - 8 per year	53 (24.9)
8 - 12 per year	51 (23.9)
> 12 per year	99 (46.5)

<u>Figure 1:</u> Type and duration of adjuvant chemotherapy for patients under 70 with low risk stage III colon cancer.

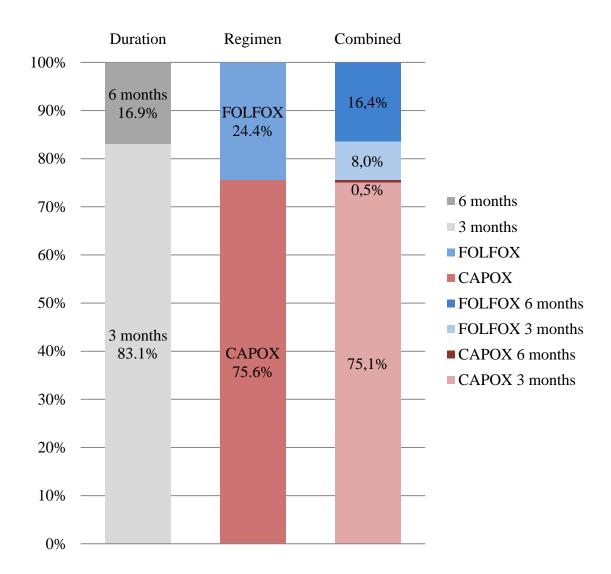
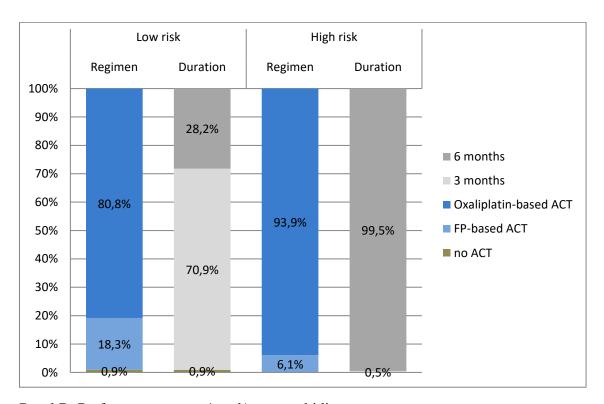


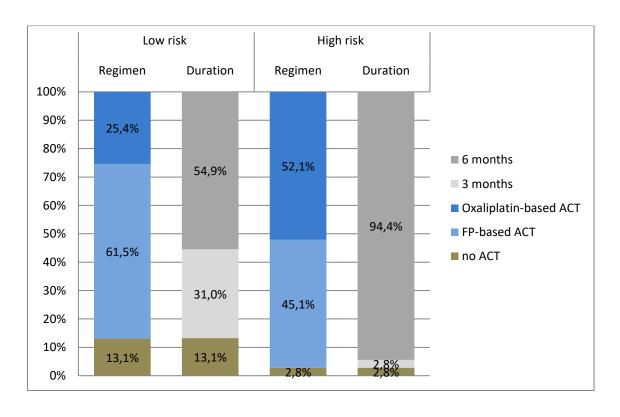
Figure 2: Type and duration of chemotherapy for patients > 70 with low risk or high risk stage

III colon cancer, depending on performans status and comorbidies

Panel A: Performans score 0-1 and no comorbidity



Panel B: Performans score > 1 and/or comorbidity



SUPPLEMENTARY MATERIAL: QUESTIONNAIRE

PART I:

- 1 / In which region are you working:
 - A. Auvergne-Rhône-Alpes
 - B. Bourgogne-Franche-Comté
 - C. Bretagne
 - D. Centre-Val de Loire
 - E. Corse
 - F. Grand-Est
 - G. Hauts-de-France
 - H. Ile-de-France
 - I. Normandie
 - J. Nouvelle-Aquitaine
 - K. Occitanie
 - L. Pays de la Loire
 - M. Provence-Alpes-Côte d'Azur
 - N. DOM-TOM
- **2**/ : Do you work :
 - A. In a teaching hospital
 - B. In a general hospital
 - C. In a private health institution of collective interest/Comprehensive cancer center
 - D. In a private clinic
 - E. Other
- 3/ Number of years of practice:
 - A. < 5 years
 - B. Between 5 and 10 years
 - C. Between 10 and 20 years
 - D. > 20 years
- 4/ What is your speciality:
 - A. Medical oncologist
 - B. Radiation oncologist

- C. Gastro-enterologist with an expertise in oncology
- D. Surgeon
- E. Other

5/ Number of patients with a stade III colon cancer or high rectal cancer that you newly took care of in the last 12 months:

- A. < 4 patients
- B. Between 4 and 8 patients
- C. Between 8 and 12 patients
- D. > 12 patients

PART II:

1/ Since the publication of the IDEA study (Grothey, A. *et al.* Duration of Adjuvant Chemotherapy for Stage III Colon Cancer. *N. Engl. J. Med.* **378**, 1177–1188 (2018)), did you change your practices?

Likert scale from 0 (not at all) à 10 (completely).

Concerning the duration of treatment:

2/ For the T1-T3 et N1 tumors, concerning the duration of treatment :

A – Yes, 3 months is the new duration for the majority of my patients in this case B- No

If you answered no, why? (multiple replies are possible):

a/ the study does not allow to conclude non inferiority on its main judgment criteria

b/ the analysis of the results by level of risk (stage III of low risk versus high risk) was not planned in the protocol; so I don't think this subgroup analysis is robust enough

c/ the analysis of the IDEA France study show that 6 months of FOLFOX6m is better than 3 months of FOLFOX6m, even for the low risk, and I prefer to use FOLFOX

d/ Other : Specify [free text]

3/ For the T4 eand/or N2 tumors, concerning the duration of treatment :

A – Yes, 3 months is the new duration for the majority of my patients in this case

B- No

If you answered no, why? (multiple replies are possible):

a/ the study shows the superiority of 6 month in this subgroup

b / the analysis of the results by level of risk (stage III of low risk versus high risk) was not planned in the protocol and does not allow to conclude statistically at the non inferiority of 3 months vs 6 months, so sub-group analyses don't seem valid to me

c/ the analysis of the IDEA France study showing that 6 months of FOLFOX6m is better than 3 months of FOLFOX6m.

d/ Other : Specify [free text]

Concerning the treatment regimen:

4/ For the T1-T3 et N1 tumors, concerning the treatment regimen :

A – Yes, CAPOX is the treatment regimen that I prescribe to the majority of my patients in this case, and I prescribe it for 3 months

B – Yes, CAPOX is the treatment regimen that I prescribe to the majority of my patients in this case, and I prescribe it for 6 months

C-No

If you answered no, why? (multiple replies are possible):

a/ the analysis of the IDEA France study shows that 6 months of FOLFOX6m is better than 3 months of FOLFOX6m.

b/I'm rather partial to FOLFOX6m for tolerance reasons.

c/I'm rather partial to FOLFOX6m for observance reasons.

d/ Other : Specify [free text]

5/ For the T4 and/or N2 tumors, concerning the treatment regimen:

A – Yes, CAPOX is the treatment regimen that I prescribe to the majority of my patients in this case, and I prescribe it for 3 months

B – Yes, CAPOX is the treatment regimen that I prescribe to the majority of my patients in this case, and I prescribe it for 6 months

C- No

If you answered no, why? (multiple replies are possible):

a/ the analysis of the IDEA France study shows that 6 months of FOLFOX6m is better than 3 months of FOLFOX6m.

b/I'm rather partial to FOLFOX6m for tolerance reasons.

c/I'm rather partial to FOLFOX6m for observance reasons.

d/ Other : Specify [free text]

<u>PART IIIA</u>: In the case of a patient under 70 years of age in good shape with a stage III colon cancer or high rectal cancer treated by surgery:

1/ If this was a stage pT3N1:
a/What treatment regimen would you propose as first line therapy?
A- CAPOX
B- FOLFOX
b/For how long?
A- 3 months
B- 6 months
2/ For the last 5 patients under 70 years of age you took care of for a pT3N1, to how many did you
prescribe:
A- CAPOX 3 months: (n)
B- CAPOX 6 months : (n)
C- FOLFOX 3 months: (n)
D- FOLFOX 6 months: $(n) [A+B+C+D=5]$
3/ <u>If this was a stage pT3N2</u> :
a/What treatment regimen would you propose as first line therapy?
A- CAPOX
B- FOLFOX
b/For how long?
A- 3 months
B- 6 months
4/ If this was a stage pT4N1:
a/What treatment regimen would you propose as first line therapy?
A- CAPOX
B- FOLFOX
b/For how long?
A- 3 months
B- 6 months

5/ If this was a stage pT4N2: a/What treatment regimen would you propose as first line therapy? A- CAPOX **B- FOLFOX** b/For how long? A-3 months B-6 months 6/ For the last 5 patients under 70 years of age you took care of for a pT4 or N2, to how many did you prescribe: A- CAPOX 3 months : (n)B- CAPOX 6 months : (n)C- FOLFOX 3 months: (n) D- FOLFOX 6 months : (n) [A+B+C+D=5]PART IIIB: In the case of a patient over 70 years of age in good shape (OMS 0 or 1, whithout co-morbidities) with a stage III colon cancer or high rectal cancer treated by surgery: 1/ If this was a stage pT3N1: a/What treatment regimen would you propose as first line therapy? A- Simple monitoring **B- CAPECITABINE** C-LV5FU2 D- CAPOX E-FOLFOX b/For how long? A-3 months B-6 months C- Not applicable (Simple monitoring)

c/ About the last 5 patients you took care of, how many did you treat with:

A- Simple monitoring: (n)
B- CAPECITABINE : (n)

C- LV5FU2 : (n)
D- CAPOX : (n)

5

E- FOLFOX : (*n*) [A+B+C+D+E=5]

d/ Based on your chemotherapy prescription data, for those who had chemotherapy, what was the duration of treatment?

Likert scale: Always 3 months / mainly 3 months / as much 3 months as 6 months / mainly 6 months / always 6 months

2/ If this was a stage pT4N2:

- a/What treatment regimen would you propose as first line therapy?
 - A- Simple monitoring
 - **B-CAPECITABINE**
 - C-LV5FU2
 - D- CAPOX
 - E-FOLFOX
- *b*/For how long?
 - A-3 months
 - B-6 months
 - C Not applicable (Simple monitoring)
- c/About the last 5 patients you took care of, how many did you treat with:
 - A- Simple monitoring: (n)
 - B- CAPECITABINE : (n)
 - C- LV5FU2 : (n)
 - D- CAPOX: (n)
 - E- FOLFOX : (*n*) [A+B+C+D+E=5]

d/ Based on your chemotherapy prescription data, for those who had chemotherapy, what was the duration of treatment?

Likert scale: Always 3 months / mainly 3 months / as much 3 months as 6 months / mainly 6 months / always 6 months

PART IIIC: In the case of a patient over 70 years of age in good shape, but OMS 2 or with comorbidities, with a stage III colon cancer or high rectal cancer treated by surgery:

1/ If this was a stage pT3N1:

a/What treatment regimen would you propose as first line therapy?

A- Simple monitoring **B- CAPECITABINE** C-LV5FU2 D- CAPOX E-FOLFOX b/For how long? A-3 months B-6 months C - Not applicable (Simple monitoring) c/ About the last 5 patients you took care of, how many did you treat with: A- Simple monitoring: (n) B- CAPECITABINE : (n) C-LV5FU2: (n) D- CAPOX: (n) E- FOLFOX : (*n*) [A+B+C+D+E=5]d/Based on your chemotherapy prescription data, for those who had chemotherapy, what was the duration of treatment? Likert scale: Always 3 months / mainly 3 months / as much 3 months as 6 months / mainly 6 months / always 6 months 2/ If this was a stage pT4N2: a/What treatment regimen would you propose as first line therapy? A- Simple monitoring **B-CAPECITABINE** C-LV5FU2 D- CAPOX E-FOLFOX b/For how long? A-3 months

c/For the last 5 you took care of, how many did you treat with:

C - Not applicable (Simple monitoring)

B-6 months

A- Simple monitoring: (n)

B- CAPECITABINE : (n)

C- LV5FU2 : (n)

D- CAPOX: (n)

E- FOLFOX : (*n*) [A+B+C+D+E=5]

d/ Based on your chemotherapy prescription data, for those who had chemotherapy, what was the duration of treatment?

Likert scale: Always 3 months / mainly 3 months / as much 3 months as 6 months / mainly 6 months / always 6 months

PART IV:

1/ a/ During the realization of an adjuvant chemotherapy by CAPOX during 3 months, in case of good clinical venous state, do you preferentially do the treatment on :

A- An importable port

B- A PICC-line

C- A peripheral venous line

b/ Of the 5 last patients for whom who prescribe CAPOX for 3 months, to how many did you do the treatment on :

A. An implantable port : X

B. A PICC-LINE: Y

C. Not on a central line : Z/X+Y+Z=5

2/ a/ During the realization of an adjuvant chemotherapy by CAPOX during 6 months, in case of good clinical venous state, do you preferentially do the treatment on:

B- An importable port

D- A PICC-line

E- A peripheral venous line

b/ Of the 5 last patients for whom who prescribe CAPOX for 3 months, to how many did you do the treatment on :

A. An implantable port: X

B. A PICC-LINE: Y

C. Not on a central line : Z/X+Y+Z=5

- 3/ When you decided to do a chemotherapy by CAPOX on a peripheral venous line,
 - A- a/ In which proportion of the cases you had to secondarily put a central line (an importable port or a PICC-line) during treatment :
 - A- Less than 25%
 - B- Between 25 et 50%
 - C- Between 50 et 75%
 - D- More than 75%

b/ Was it:

Likert scale: Always an importable port / mainly an importable port / as much an importable port as a PICC-line / mainly a PICC-line / always a PICC-line

c/What was the reason for secondary use of a peripheral venous line? [free text]

- 4/ When you decide to do a chemotherapy by FOLFOX, do you do:
 - A- FOLFOX6m (1 infuser of 46h)
 - B- FOLFOX4 (2 infuser of 23h)