

## Background

- Six months oxaliplatin (OX)-based chemotherapy (modified FOLFOX6 or CAPOX) is the standard adjuvant chemotherapy for completely resected stage III colorectal cancer (CRC) in Japan.
- However neurotoxicity is the most frequent toxicity of these chemotherapy regimens and often decline their QOL.
- OX induced neurotoxicity is well known to be appeared by dose-dependently and progresses to irreversible in some cases.
- Six months OX regimen has been reported to

## Objectives

To investigate the feasibility of sequential approach with three months OX-based regimen followed by three months capecitabine in Japanese patients with stage III CRC, in addition to high-risk stage II CRC. (UMIN000004934)

Primary endpoint

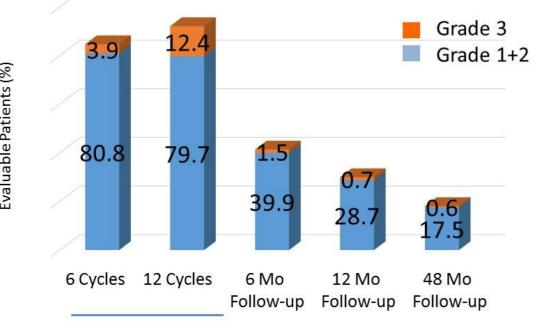
- Frequency and Grade of peripheral sensory and motor neuropathy (PSN/PMN) (CTCAE v4 and PNQ)
- Secondary endpoints

Results											
Consort fl	ow diagram	Characteristics of the patients									
	titutes (between 2011 and 2014)	All patinets (n=86)									
Patients enrolled (n=91)		Age median (range)	65 (36-81)								
	Not fulfill the eligibility (n=2)	ECOG PS(0/1)	81/5								
	Reject treamtment (n=3)	Sex (Male/Female)	49/37								
On treatment (n=86)		Tumor site (rectal/non-rectal)	32/54								
Eligible patients		Histologic appearance (well/mod/por/others)	14/65/5/2								
(n=86)		Disease stage (Ⅱ/Ⅲa/Ⅲb)	15/47/24								

leave neurotoxicity after treatment in patients with cmpletely resected stage III CRC.

Study Regimen		Proportion of completion in therapy (%)	Median dose of OX ( mg/m²)	PSN during treatment All grade (G3/4) (%)
XELOXA (NO16968) 1) 2)	XELOX (n=942)	69	874 (max1040)	78 (11)
MOSAIC 3)4)	FOLFOX4 (n=1108)	74.7	810 (max 1020)	92 (12.5) 18.1 (0.6) 3yr
NSABP C-07 5)6)7)	FLOX (n=1247)	_	677 (max 765)	85.3 (8.4) 29.9 (0.4) 1yr

Peripheral sensory neuropathy (PSN) during treatment and after follow-up to 3 years (MOSAIC study)

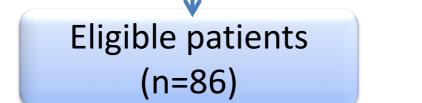


1) Daniel G. Haller. et al., J Clin Oncol. Apr 10, 2011:1465-1471 Nadine J. McCleary. et al., J Clin Oncol. Jul 10, 2013:2600-2606 3) Thierry Andre. Et al., N Engl J Med 350:2343 51, 2004. ) Thierry Andre, et al., J Clin Oncol, Jul 1, 2009:3109-3116 5) Kuebler JP. et al., J Clin Oncol.2007: 25 6) J. Philip Kuebler. et al., J Clin Oncol. 2007 Jun 1;25(16):2205-11  Proportion of completion in oxaliplatin base therapy

 Proportion of completion in adjuvant chemotherapy

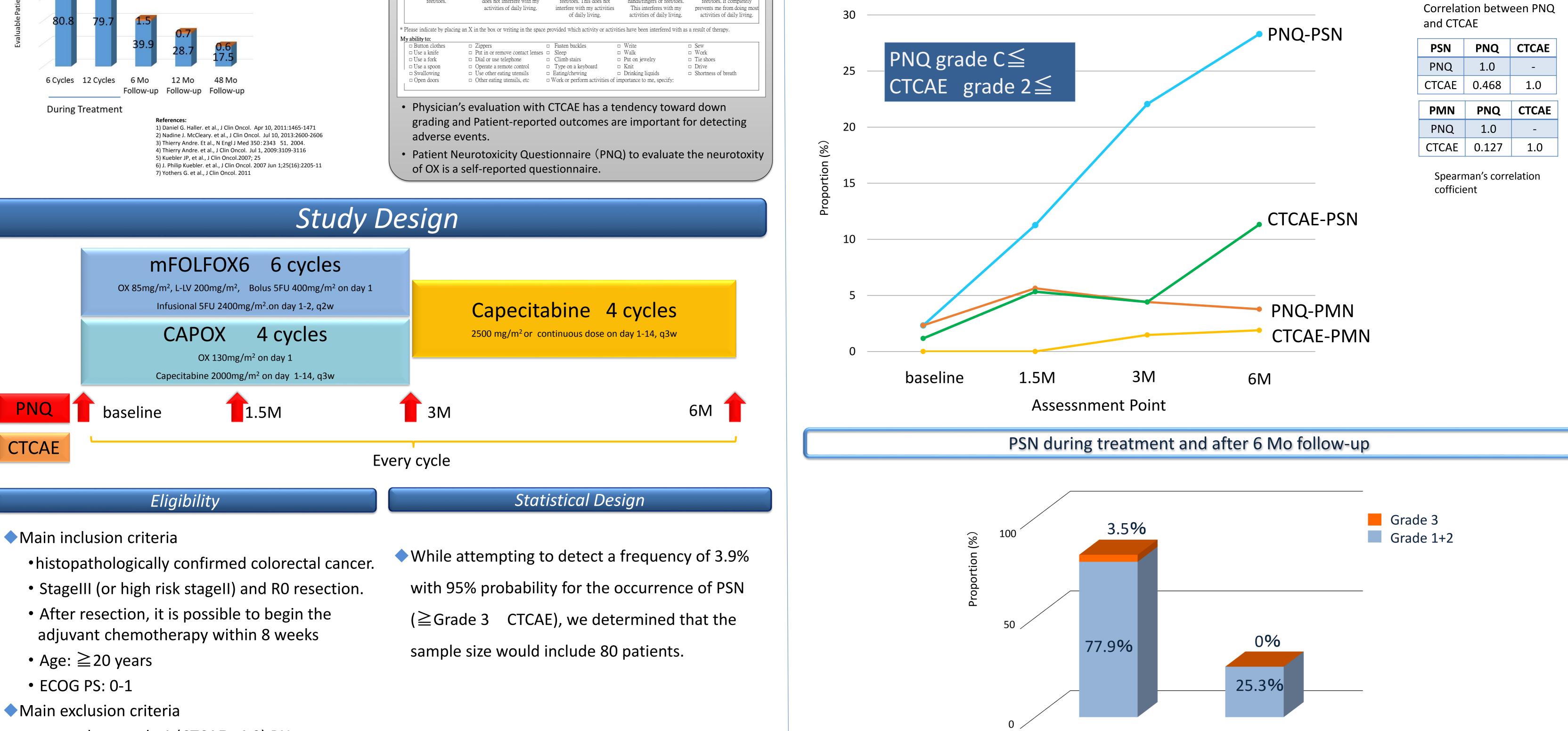
- Proportion of treatment selection
- Adverse event
- Compare FOLFOX to CAPOX in efficacy or adverse event

	B	C	D	□ E
I have no numbness, pain, burning, tingling or change in my sense of touch in my hands/fingers, or feet/toes of mouth area.	e pain, tingling or change in my y sense of touch in my	I have moderate burning, numbness, pain, tingling or change in my sense of touch in my hands/fingers, or feet/toes or mouth area. This does not interfere with my activities of daily living.	I have moderate to severe burning, numbness, pain, tingling or change in my sense of touch in my hands/fingers, or feet/toes or mouth area. This interferes with my activities of daily living.	I have severe numbness, pain, tingling or change in my sense of touch in my hands/fingers, or feet/toes or mouth area. It completely prevents me from doing most activities of daily living.
em 2.			2	
	B	C	D	E
I have no difficulty in swallowing, breathing, drinking or chewing food, o muscle spasms in my mouth/jaws, hands/fingers o feet/toes.	spasms in my mouth/jaws,	drinking or chewing food, or muscle spasms in my mouth/jaws, hands/fingers or feet/toes. This does not interfere with my activities of daily living.	I have moderate to severe difficulty in swallowing, breathing, drinking or chewing food, or muscle spasms in my mouth/jaws, hands/fingers or feet/toes. This interferes with my activities of daily living.	I have severe difficulty in swallowing, breathing, drinking or chewing food, or muscle spasms in my mouth/jaws, hands/fingers or feet/toes. It completely prevents me from doing most activities of daily living.
y ability to:	ar A in the box or writing in the space	provided which activity of activity	ties have been interfered with as	s a result or therapy.
□ Button clothes □ Use a knife □ Use a fork □ Use a spoon □ Swallowing □ Open doors	<ul> <li>Zippers</li> <li>Put in or remove contact lenses</li> <li>Dial or use telephone</li> <li>Operate a remote control</li> <li>Use other eating utensils</li> <li>Other eating utensils, etc</li> </ul>	□ Sleep □ □ Climb stairs □ □ Type on a keyboard □	<ul> <li>Write</li> <li>Walk</li> <li>Put on jewelry</li> <li>Knit</li> <li>Drinking liquids</li> <li>mportance to me, specify:</li> </ul>	<ul> <li>Sew</li> <li>Work</li> <li>Tie shoes</li> <li>Drive</li> <li>Shortness of breath</li> </ul>



Proportion of completion and Dose of OX										
		All patients	mFOLFOX6	САРОХ	P value					
	Number	86	30	56						
Proportion of	OX-based therapy	83.7	80.0	85.7	0.544					
completion (%)	All treatments	65.1	63.3	66.1	0.816					
	dian dose of OX ange) mg/m²	479 (82-531)	467 (82-512)	490 (120-531)	0.123					

Frequency of severity (PSN, PMN)



P value — (Fisher test: All grade)

0.113

0.262

0.799

0.632

<u>0.001</u>

0.402

0.427

PSN	PNQ	CTCAE			
PNQ	1.0	-			
CTCAE	0.468	1.0			
PMN	PNQ	CTCAE			
PNQ	1.0	-			

• more than grade 1 (CTCAE v4.0) PN

## conclusions

than 6 months OX-based adjuvant treatment previously reported.

At 6 months after the end of treatment, there was no grade3 PSN patient.

Sequential approach with 3 months OX-based regimen followed by 3 months

capecitabine is a safety adjuvant treatment for CRC.

PNQ appears to detect OX induced neurotoxicity earlier than CTCAE.

## Acknowledgement

This study was supported by Japan Southwest Oncology Research Support Organization (JSWOGORG). We would like to thank all participating patients and investigators participated in this study.

Adverse	Events
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	All Pa	atients	mFOLFO	FOLFOX6(n=30) CAPOX(n=56		((n=56)	P value (Fisher test:				All Patients		mFOLFOX6(n=30)		CAPOX(n=56)	
%	All	G3≦	All	G3≦	All	G3≦	All grade)	%	All	G3≦	All	G3≦	All	G3≦		
leukopenia	34.9	0.0	33.3	0.0	35.7	0.0	1.000	-	HFS	50.0	3.5	63.3	3.3	42.9	3.6	
neutropenia	57.0	9.3	53.3	3.3	58.9	12.5	0.653	0.653	Anorexia	47.7	4.7	56.7	0.0	42.9	7.1	
anemia	53.5	0.0	70.0	0.0	44.6	0.0	<u>0.040</u>		Diarrhea	26.7	8.1	23.3	10.0	28.6	7.1	
thrombocytop enia	62.8	2.3	60.0	3.3	64.3	1.8	0.816	-	Nausea	30.2	1.2	26.7	0.0	32.1	1.8	
T-bil	9.3	0.0	6.7	0.0	10.7	0.0	0.708	_	nausea	50.2	1.2	20.7	0.0	52.1	1.0	
AST	67.4	0.0	73.3	0.0	64.3	0.0	0.473		Mucositis Oral	25.6	1.2	46.7	3.3	14.3	0.0	
ALT	47.7	5.8	56.7	6.7	42.9	5.4	0.262									
ALP	25.6	1.2	16.7	0.0	30.4	1.8	0.202		PSN	81.4	3.5	86.7	3.3	78.6	3.6	
Cre	8.1	1.2	13.3	3.3	5.4	0.0	0.232		PMN	22.1	1.2	16.7	0.0	25.0	1.8	