



#8584 - ASCO 2023

IFCT-2105 LURBICLIN: Real-world effectiveness and treatment sequences in patients with extensive-stage small cell lung cancer who received lurbinectedin as part of the French Early Access Program (EAP-ATU)

Nicolas GIRARD¹, Florian GUISIER², Aurélie SWALDUZ³, Sylvie VAN HULST⁴, Eric PICHON⁵, Pernelle LAVAUD⁶, Laurent GREILLIER⁷, Angelica TIOTIU⁸,

Anne MADROSZYK⁹, Olivier BYLICKI¹⁰, Anthony CANELLAS¹¹, Laure BELMONT¹², Maeva ZYSMAN¹³, Pierre-Alexandre HAUSS¹⁴, Benoit GODBERT¹⁵, Clarisse AUDIGIER-VALETTE¹⁶, Cléa LEBRETON¹⁷, Franck MORIN¹⁷, Virginie WESTEEL¹⁸

¹ Institut du Thorax Curie Montsouris, Institut Curie, Paris, France; ² Univ Rouen Normandie, CHU Rouen, Rouen, France; ³ Centre Léon Bérard, Lyon, France; ⁴ CHU Nîmes, Nîmes, France; ⁵ CHRU Bretonneau, Tours, France; ⁶ Gustave Roussy, Villejuif, France; ⁷ APHM, Hôpital Nord, Marseille, France; ⁸ CHU de Brabois, Vandoeuvre-Les-Nancy, France; ⁹ Institut Paoli-Calmettes, Marseille, France; ¹⁰ HIA Sainte Anne, Toulon, France; ¹¹ APHP Hôpital Tenon, Paris, France; ¹² Centre Hospitalier Victor Dupouy, Argenteuil, France; ¹³ CHU, Hôpital Haut-Lévêque, Pessac, France; ¹⁴ Centre Hospitalier Intercommunal Elbeuf Louviers, Elbeuf, France; ¹⁵ Hôpital Robert Schuman, Metz, France; ¹⁶ CHITS Toulon Sainte Musse, Toulon, France; ¹⁷ The French Cooperative Thoracic Intergroup, Paris, France; ¹⁸ CHU Besançon, Hôpital Minjoz, Besançon, France

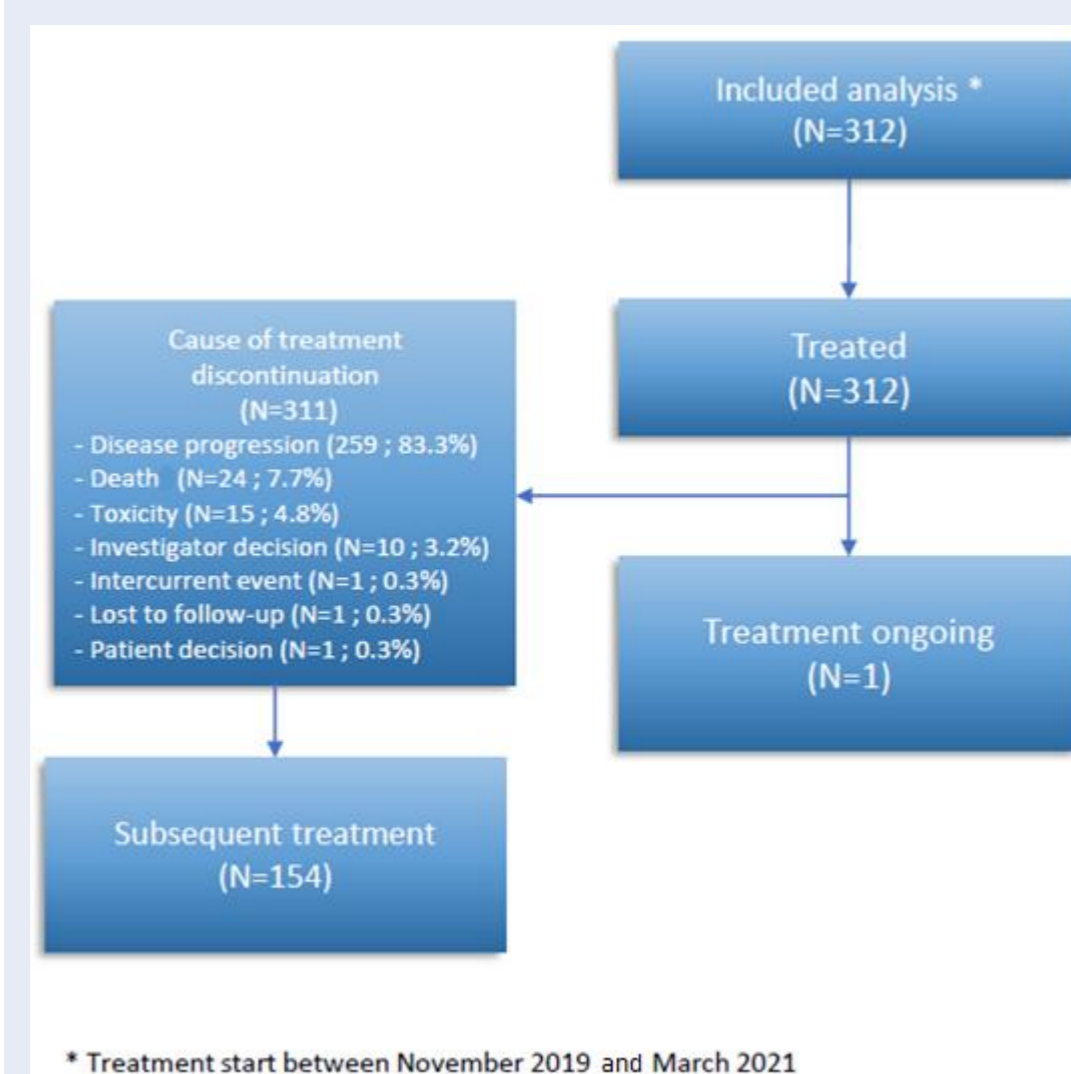
BACKGROUND

- Novel options are needed for patients (pts) with Extensive-Stage Small Cell Lung Cancer (ES-SCLC) after the failure of first-line chemotherapy.
- Lurbinectedin demonstrated efficacy in a landmark phase II study** [Trigo et al. Lancet Oncol. 2020 May;21(5):645], and was granted Expanded Access Program (EAP)-ATU in France in June 2020.
- While prospective trials are still ongoing, there is a need to better identify eligible population and assess real-world effectiveness of lurbinectedin in ES-SCLC.

METHODS

- Multicenter, retrospective cohort of consecutive pts:**
 - with histologically or cytologically confirmed ES-SCLC,
 - who received at least one dose of treatment with lurbinectedin as part of the French EAP-ATU, treatment initiated until March 2021, and who accepted for the data collection.
- Total of 47 sites in France
- Key prespecified subgroups included treatment line, response and rwPFS to previous chemo-immunotherapy, chemotherapy-free interval (≥ 90 days vs < 90 days (ESMO guideline), ≥ 180 days vs < 180 days (NCCN guidelines))

CONSORT diagram



We censored follow-up on September 1st, 2022

PATIENT POPULATION

			ITT (N=312)
Initial stage at lurbinectedin initiation	Extensive	N (%)	268 (85.9)
	Limited	N (%)	44 (14.1)
Performance status at lurbinectedin initiation	0-1	N (%)	188 (71.8)
	≥ 2	N (%)	74 (28.2)
	Unknown	N	50
Brain metastasis at lurbinectedin initiation	Yes	N (%)	147 (47.1)
	No	N (%)	165 (52.9)
Previous line of systemic therapy	1	N (%)	138 (44.2)
	2	N (%)	93 (29.8)
	3	N (%)	50 (16)
	>3	N (%)	31 (9.9)
	Received at least 1 immunotherapy during previous line(s)	N (%)	180 (57.7)
Received at least 1 chemotherapy during previous line(s)	N (%)	283 (90.7)	
Treatment sequence platinum-platinum rechallenge-lurbinectedin	N (%)	45 (14.4)	
Treatment sequence platinum-lurbinectedin-platinum rechallenge	N (%)	20 (6.4)	
Free interval with the last antineoplastic treatment received (months)	Mean \pm SD		2.4+/-3.1
Chemotherapy-free interval (CTFI) < 90 days (ESMO guideline)	N (%)		164 (58)
Chemotherapy-free interval (CTFI) ≥ 90 days (ESMO guideline)	N (%)		119 (42)
Chemotherapy-free interval (CTFI) < 180 days (NCCN guidelines)	N (%)		256 (90.5)
Chemotherapy-free interval (CTFI) ≥ 180 days (NCCN guidelines)	N (%)		27 (9.5)

*3 received only radiotherapy and immunotherapy, 26 received only immunotherapy

TAKE-HOME MESSAGE

Our real-world data confirmed the activity of lurbinectedin in patients with SCLC with a manageable safety profile. Lurbinectedin monotherapy provides an alternative therapeutic option for SCLC patients without precluding subsequent treatment.

LURBINECTEDIN: TREATMENT EXPOSURE AND SAFETY

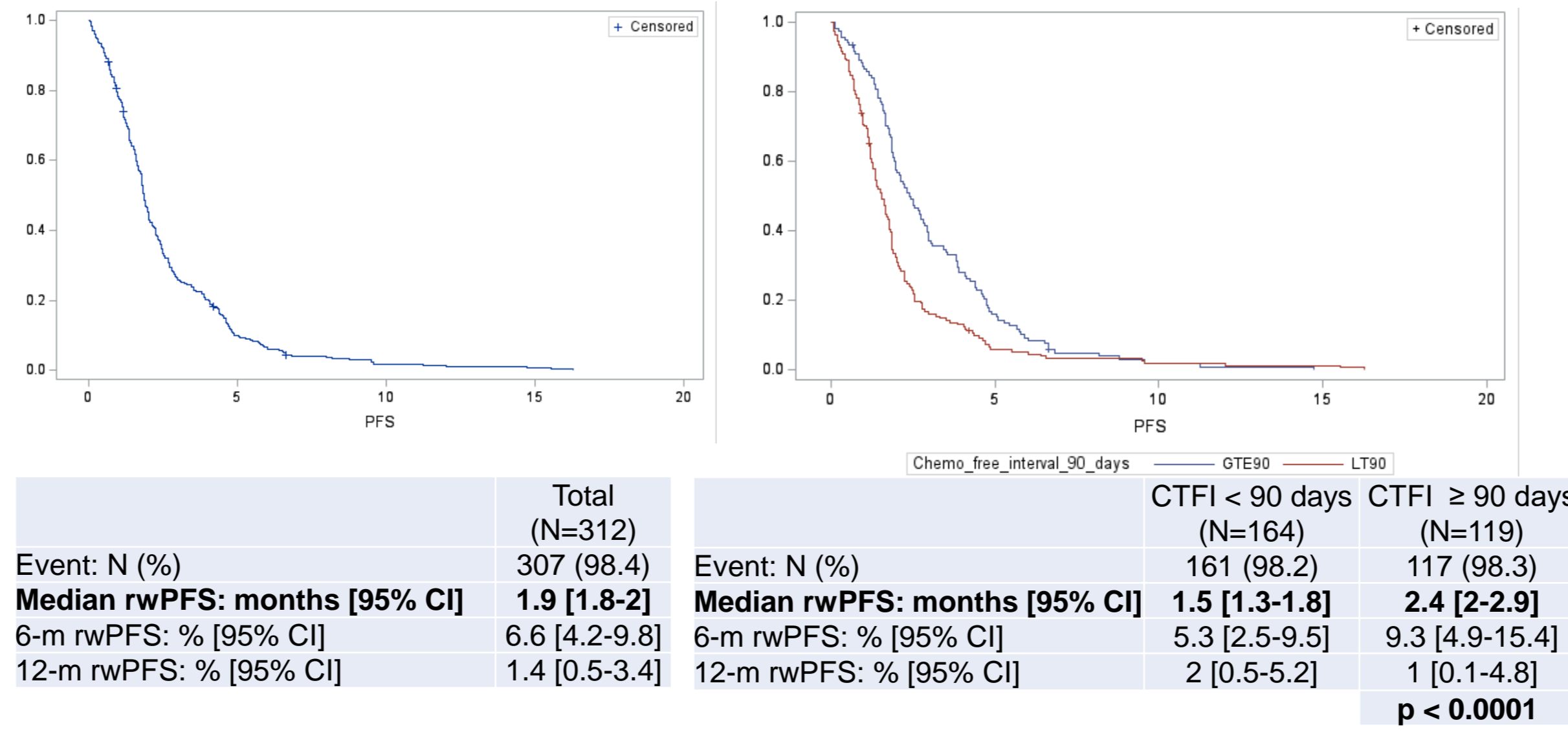
		ITT (N=312)	Grade 3	Grade 4
Number of injections of lurbinectedin administered	Mean \pm SD	3.8 +/- 3.2		
	Median Range	3.0 [1-24]		
Initial dose of lurbinectedin	Full 3.2mg/m ²	N (%)	292 (93.6)	
	Reduced	N (%)	20 (6.4)	
Total number of dose reduction				
	Cause of dose reductions	N (%)	29 (76.3)	
Total number of dose delays				
	Dose delay duration (days)	Mean \pm SD	37.9 +/- 30.9	
Cause of dose delay	Toxicity	N (%)	3 (37.5)	
	Intercurrent event	N (%)	2 (25)	
	Radiotherapy	N (%)	2 (25)	
	Other	N (%)	1 (12.5)	
	* The 8 dose delay is: 7, 8, 14, 19, 34, 69, 73 and 79 days			
Associated palliative radiotherapy	Palliative radiotherapy site	N (%)	70 (22.4)	
	Brain	N (%)	48 (68.6)	
	Bone	N (%)	14 (20)	
	Thoracic lymph nodes	N (%)	5 (7.1)	
	Initial main tumor	N (%)	3 (4.3)	
	Adrenals	N (%)	1 (1.4)	
	Liver	N (%)	1 (1.4)	
	Other	N (%)	8 (11.4)	
Any treatment-related adverse event			28 (9%)	15 (4.8%)
	Investigations		16 (5.1%)	13 (4.2%)
Platelet count decreased		13 (4.2%)	6 (1.9%)	
Neutrophil count decreased		5 (1.6%)	6 (1.9%)	
Gamma-glutamyltransferase increased		1 (0.3%)	3 (1%)	
Aspartate aminotransferase increase		2 (0.6%)	1 (0.3%)	
Alanine aminotransferase increased		1 (0.3%)	1 (0.3%)	
Blood bilirubin increased		1 (0.3%)	0	
Lipase increased		0	1 (0.3%)	
Blood and lymphatic system disorders			7 (2.2%)	3 (1%)
	Anaemia		5 (1.6%)	0
	Febrile neutropenia		2 (0.6%)	2 (0.6%)
Leukocytosis		0	1 (0.3%)	
General disorders			8 (2.6%)	0
	Fatigue		8 (2.6%)	0
Respiratory			2 (0.6%)	0
	Haemoptysis		1 (0.3%)	0
	Pleural effusion		1 (0.3%)	0
	Pneumonia		1 (0.3%)	0
Gastrointestinal disorders			1 (0.3%)	0
	Nausea		1 (0.3%)	0
Metabolism and nutrition disorders			1 (0.3%)	0
	Decreased appetite		1 (0.3%)	0
Musculoskeletal			0	1 (0.3%)
	Rhabdomyolysis		0	1 (0.3%)

RESPONSE

	All patients (N=312) N(%) [95% CI]	CTFI < 90 days (N=164) N(%) [95% CI]	CTFI ≥ 90 days (N=119) N(%) [95% CI]
Complete response	1 (0.4%) [0% - 1.1%]	0	1 (0.9%) [0% - 2.7%]
Partial response	60 (21.9%) [17.0% - 26.8%]	23 (16.7%) [10.4% - 22.9%]	29 (26.4%) [18.1% - 34.6%]
Objective Response	61 (22.3%) [17.3% - 27.2%]	23 (16.7%) [10.4% - 22.9%]	30 (27.3%) [19.0% - 35.6%]
Stable disease	43 (15.7%) [11.4% - 20.0%]	18 (13%) [7.4% - 18.7%]	19 (17.3%) [10.2% - 24.3%]
Disease Control	104 (38%) [32.2% - 43.7%]	41 (29.7%) [22.1% - 37.3%]	49 (44.5%) [35.3% - 53.8%]
Progression disease	168 (61.3%) [55.5% - 67.1%]	97 (70.3%) [62.7% - 77.9%]	59 (53.6%) [44.3% - 63.0%]
Not evaluable	2 (0.7%) [0% - 1.7%]	0	2 (1.8%) [0% - 4.3%]
Not done/Missing	38	26	9

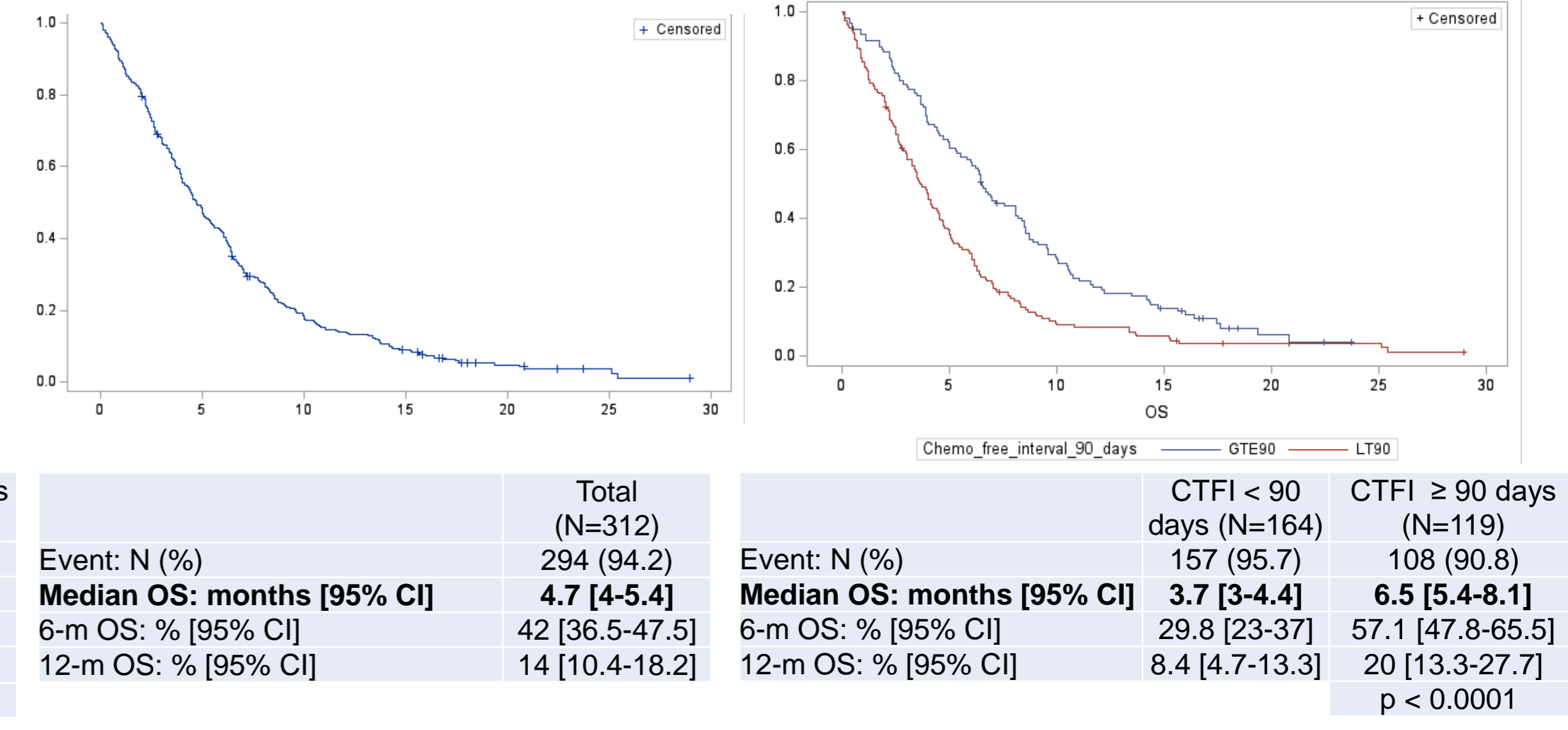
p=0.02

rwPFS



At multivariate analysis, only CTFI ≥ 90 days was significantly associated with more prolonged rwPFS.

OS



At multivariate analysis, only PS 0-1 and CTFI ≥ 90 days were significantly associated with more prolonged OS.