



# P2.07A–1252: The Effect of EGFR Mutation on Adjuvant Tegafur/Uracil for Patients with Non-Lymph Node

Metastatic NSCLC (> 2 cm)

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## INTRODUCTION

#### <BACKGROUNDS>

- The ADAURA trial demonstrated the significant efficacy of osimertinib regarding DFS and OS in patients with stages IB-IIIA (TNM 7th) EGFR mutant NSCLC.<sup>1-3</sup>
- Japanese patients with stage IB (> 3 cm), for whom oral UFT was the standard adjuvant treatment, were not enrolled in the ADAURA trial which used a placebo control.
- In the future, osimertinib may compete with oral UFT for non-lymph node metastatic NSCLC (> 2 cm) in Japan, but there are few reports on the therapeutic efficacy of UFT in lung cancer with EGFR mutations.

#### <PURPOSE>

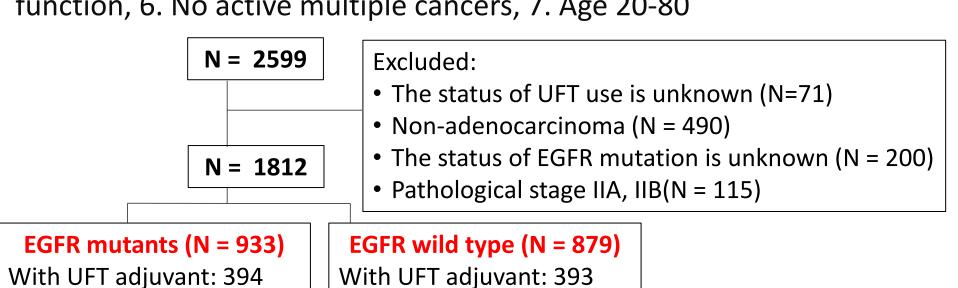
Without UFT adjuvant: 539

 To elucidate the effect of EGFR mutations on adjuvant chemotherapy with UFT as an exploratory analysis of CSPOR-LC03 study.

# PATIENTS & METHODS

CSPOR-LC03: a large-scale, retrospective, multicenter observational study conducted to understand Japanese real-world data on adjuvant chemotherapy between 2008 and 2013.4

<CRITERIA> 1. Pathological stage I (T1>2 cm, TNM 6th), 2. Lobectomy and R0 resection, 3. No prior treatment, 4. PS 0-1, 5. Adequate organ function, 6. No active multiple cancers, 7. Age 20-80



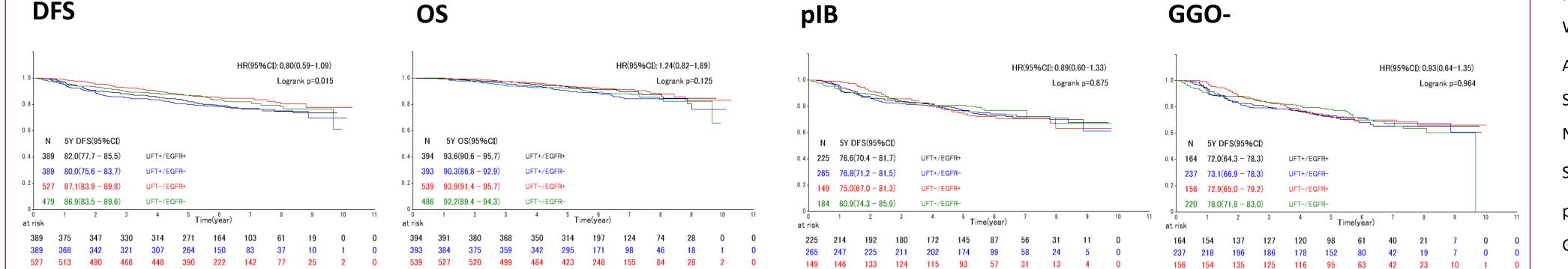
- The primary endpoint: 5-year disease-free survival (DFS) rate
- Survival comparison in the four groups (UFT+/EGFR+, UFT+/EGFR-, UFT-/EGFR+, and UFT-/EGFR-)
- Identifying prognostic factors using a Cox proportional hazards model

Without UFT adjuvant: 486

## **RESULTS**

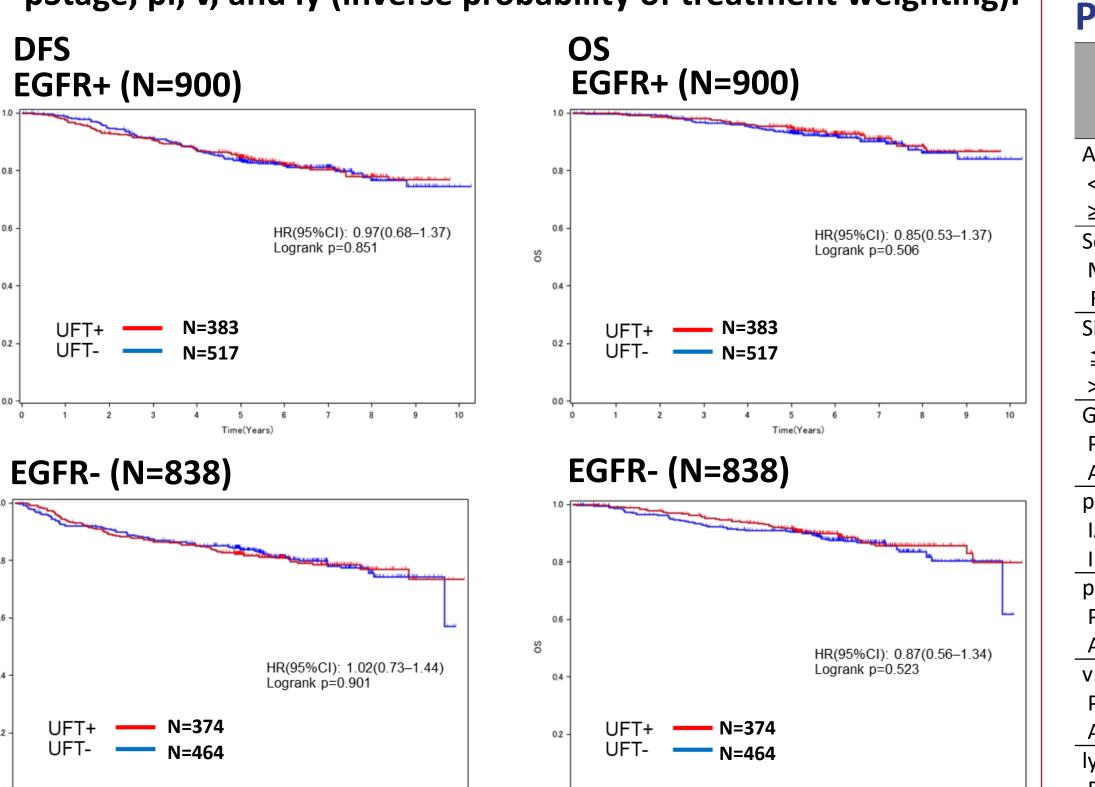
### Survival The median duration of follow-up: 5.8 years (interquartile range: 5.0–7.1 years)

All patients DFS of high-risk subgroups



Adjusted by age, sex, lymph node dissection, tumor size, GGO component,

pStage, pl, v, and ly (inverse probability of treatment weighting).



## **Patient characteristics**

	EC	<b>GFR mutant</b>		EGFR wild type			
	UFT+	UFT-		UFT+	UFT-		
	n = 394 (%)	n = 539 (%)	P value	n = 393 (%)	n = 486 (%)	P value	
Age							
< 70	273 (63)	322 (60)	0.002	275 (70)	272 (56)	< 0.0001	
≥ 70	121 (37)	217 (40)	0.003	118 (30)	214 (44)		
Sex							
Male	147 (37)	176 (33)	0.14	235 (60)	273 (56)	0.28	
Female	247 (63)	363 (67)	0.14	158 (40)	213 (44)		
Size (cm)							
$\leq$ 3 cm	190 (48)	383 (71)	< 0.0001	163 (42)	313 (64)	< 0.0001	
> 3 cm	204 (52)	156 (29)	< 0.0001	230 (59)	173 (36)		
GGO							
Present	228 (58)	378 (70)	0.0001	155 (39)	261 (54)	0.0001	
Absent	166 (42)	161 (30)	0.0001	238 (61)	173 (46)	0.0001	
pStage							
IA	167 (42)	388 (72)	< 0.0001	127 (32)	299 (62)	< 0.0001	
IB	227 (58)	151 (28)	< 0.0001	266 (68)	187 (39)		
pl							
Present	96 (25)	67 (13)	< 0.0001	114 (31)	72 (16)	< 0.0001	
Absent	298 (75)	472 (87)	< 0.0001	279 (69)	414 (84)		
V							
Present	114 (30)	91 (18)	< 0.0001	142 (38)	127 (27)	0.001	
Absent	280 (70)	448 (82)	<b>\ 0.0001</b>	251 (62)	359 (63)	0.001	
ly							
Present	84 (22)	78 (15)	0.008	65 (17)	84 (18)	0.79	
Absent	310 (78)	461 (85)	0.000	328 (83)	402 (82)		

EGED wild type

#### **Risk factors for DFS**

		Univariable		Multivariable		
Variable	Ref	HR (95% CI)	P value	HR (95% CI)	P value	
EGFR mutation, Positive	Negative	0.889 (0.716–1.105)	0.29	1.171 (0.926–1.481)	0.19	
With UFT	Without UFT	1.404 (1.130–1.744)	0.002	0.987 (0.778–1.252)	0.91	
Age, ≥ 70	< 70	1.183 (0.952–1.469)	0.13	1.021 (0.810-1.288)	0.86	
Sex, Male	Female	1.400 (1.125–1.743)	0.003	1.333 (1.060–1.677)	0.014	
ND, ND2a-2	ND2a-1	1.216 (0.978–1.511)	0.078	1.100 (0.877–1.380)	0.41	
Size, cm	1 cm increase	1.460 (1.262–1.689)	< 0.0001	1.145 (0.960–1.365)	0.13	
pStage, IB	IA	2.379 (1.899–2.981)	< 0.0001	1.287 (0.917–1.805)	0.14	
GGO, Present	Absent	0.284 (0.224–0.360)	< 0.0001	0.436 (0.334–0.568)	< 0.000	
pl, Present	Absent	3.295 (2.625-4.135)	< 0.0001	1.538 (1.151-2.053)	0.004	
v, Present	Absent	4.002 (3.199-5.007)	< 0.0001	2.173 (1.665-2.836)	< 0.000	
ly, Present	Absent	2.592 (2.039-3.295)	< 0.0001	1.371 (1.057-1.779)	0.017	

## DISCUSSION & CONCLUSION

- The benefit of adjuvant UFT on DFS and OS may be limited, regardless of the EGFR mutation.
- Univariable analysis of DFS revealed a worse prognosis in the UFT+ group than in the UFT- group. This was ascribed to a selection bias that UFT was preferentially administered to patients with an elevated risk of recurrence.

#### <CONCLUSION>

In pathologic stage I (>2 cm) lung adenocarcinomas with EGFR mutation, the survival benefit of adjuvant UFT was not observed.

#### REFERENCES & ACKNOWLEDGEMENTS

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- 3. Tsuboi M, et al. NEJM. 2023, 4. Shukuya T, et al. JTOCRR. 2022 This work was supported by AstraZeneca K.K. [ESR-21-21264]