

# Irinotecan-Based Regimen as Second-Line Chemotherapy for Extensive-Stage Small Cell Lung Cancer

Guoping Cheng<sup>F</sup> and Lei Shi<sup>OE</sup>

<sup>1</sup>Department of Pathology, Zhejiang Cancer Hospital, Hangzhou, PR China

<sup>2</sup>Department of Chemotherapy, Zhejiang Cancer Hospital, Hangzhou 310022, PR China

**Corresponding author:** Lei Shi, MD, PhD, Department of Pathology, Zhejiang Cancer Hospital, Hangzhou 310022, PR China. Email: shilei@zjch.com.cn

**Received date:** 2023-01-15 **Accepted date:** 2023-02-10 **Published date:** 2023-02-15

**Copyright:** © Cheng G, Shi L. This is an open access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

## Abstract

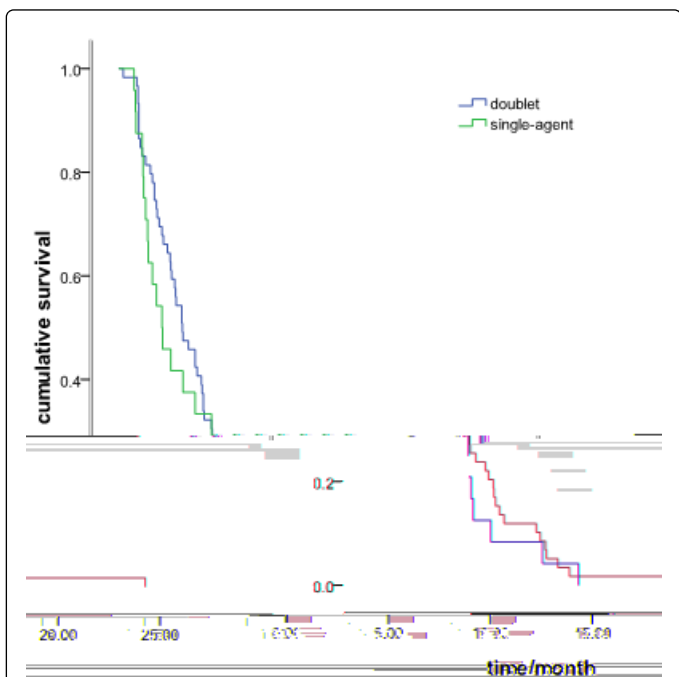
**Purpose:** To evaluate the efficacy and safety of irinotecan-based regimen as second-line chemotherapy for extensive-stage small cell lung cancer (ES-SCLC).

**Patients and methods:** A total of 100 patients with ES-SCLC who had received first-line chemotherapy and had progressive disease were enrolled in this study. They were treated with irinotecan-based regimen as second-line chemotherapy.

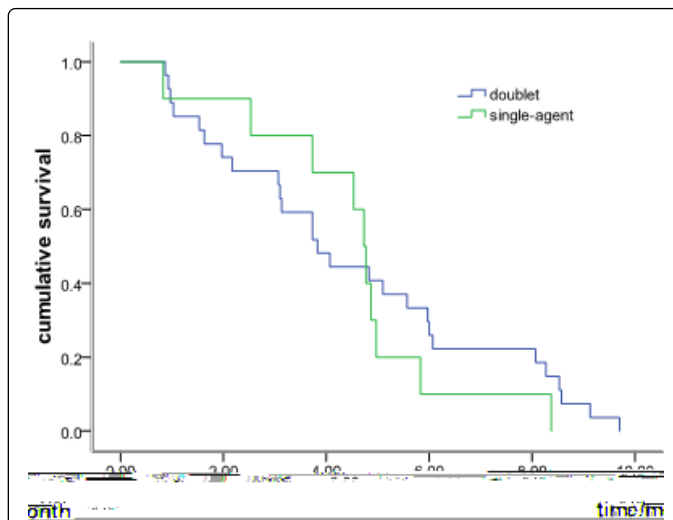
**Results:** The overall response rate (ORR) was 45.0%, and the disease control rate (DCR) was 75.0%. The median progression-free survival (PFS) was 4.5 months, and the median overall survival (OS) was 6.0 months. The most common adverse events were neutropenia, diarrhea, and nausea.

Patients who responded to initial chemotherapy and developed

PFS was 3.10 months in the doublet group and 2.10 months in the single-agent group (P=0.347) (Figure 1).



**Figure 1:** PFS in doublet and single-agent treatments group (3.10 months VS. 2.10 months P=0.347).



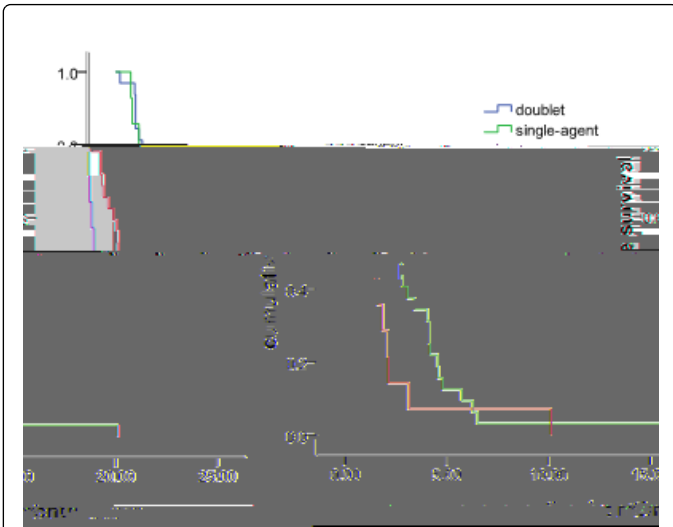
**Figure 2** PFS of doublet and single-agent treatments group in sensitive recurrence patients (4.73 months VS. 3.83 months, P=0.543).

In the sensitive recurrence group, there were 27 patients with a doublet chemotherapy and 10 with single-agent treatment. The Median PFS was 4.73 months (95% CI: 4.37-5.09) and 3.83 months (95% CI: 2.65-5.02), respectively (P=0.543) (Figure 2).

In the refractory recurrence group, there were 32 patients with a doublets chemotherapy and 14 with single-agent treatment. The median PFS was 2.57 months (95% CI: 2.19-2.93) and 1.40 months (95% CI: 1.13-1.64), respectively (P=0.048) (Figure 3). Response data for the single-agent and doublets group are shown in Table 2.

	All the patients (n=83)			Sensitive recurrence group (n=37)			Refractory recurrence group (n=59)		
	ArmA (n=24)	ArmB (n=59)	P	ArmA (n=10)	ArmB (n=27)	P	ArmA (n=14)	ArmB (n=32)	P
UÜÜ	İÄÇĞİD	FİÄÇGHÉTD	€€J	İÄÇİED	F€İÄÇHTÉED	€€İİ	ĞÄÇFİÉHD	İÄÇFGÉTD	€€İİ
ÖÖÜ	FİÄÇİİÉHD	HİÄÇİGÉTD	€€İF	JÄÇJED	G€ÄÇİİÉFD	€€GJİ	İÄÇHTÉTD	FJÄÇİJÉTD	€€Fİ
ÚØÜ	GÉF	HÉF	€€Hİİ	HÉİH	İÉTH	€€İIH	FÉI	GÉİİ	€€€İİ
UÜ	İÉİF	İÉJH	€€HJ	İÉİİ	JÉGF	€€İİ	İÉFF	İÉİJ	€€İİ

CE: { CE(A•s)\*^Eæ\*^}ç\*!["]LÁCE: { ÓVá["a]^ç\*!["]LÁUÜM-: { Á•çæç["-Á•^&["]áEj}^Ác!^æc { ^}çÉ



**Figure 3** PFS of doublet and single-agent treatments group in the refractory recurrence patients (2.57 months VS. 1.40 months, P=0.048).

PFS 95%CI P

U^c €íU

Tø|^

