



Cost-effectiveness Analysis of Rosuvastatin and Ezetimibe Single Pill Combination (SPC) versus Free Combination Treatment (FCT)

 The prevalence of hypercholesterolemia is approximately 8.1% in Chinese adults. There are estimated 93.2% patients at high atherosclerotic cardiovascular disease risk did not reach 2023 Chinese Lipid Management Guidelines recommended targets for low-density lipoprotein cholesterol (LDL-C) of < 1.8 mmol/L.¹¹ Statins combined with ezetimibe was recommended by guidelines to achieve the LDL-C goal. Perspective: Chinese public healthcare system Target population: Chinese moderate to very-high risk. hypercholesterolemia adult patients whose LDL-C was not adequately controlled despite on statin monotherapy. Model structure: A Markov model with seven health states was developed to assess the cost effectiveness of SPC versus FCT of rosuvastatin10mg / EZE 10mg. Clinical events considered in the analysis included non-fatal coronary revascularization, non-fatal infarction, non-fatal ischemic stroke, and death. All patients entered the model started from "Event-free" state and moved to different health states depending on the clinical events occurred (Figure 1). Time horizon: The model is set with a cycle length of one year and an 18-year time horizon, which afigned with the life expectancy of 79 years for Chinese patients. Methods and demographics The baseline characteristic/CV risk were obtained from a local database study based on hypercholesterolemia patients on statin monotherapy and still did not reach the LDL-C goal (Table 1-2).^[2] LDL-C reduction of SPC of Rosuvastatin 10mg/Ezetimibe 10mg was derived from a Chinese multicenter retrospective case registry study (Table 3).^[3] The superior effectiveness of SPC may be attributed to improved treatment adherence. The reduction of LDL-C level was translated to risk reduction of major adverse cardiovascular events (MACE), defined as MI/IS/coronary revascularization/CV death, based on CTT 2010 (Table 4).^[3] The discount rate was		INTRODUCTION
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		clinical inputs were using 95% confidence interval, costs and health outcomes

Disclosure: All authors have nothing to disclose. This study was sponsored by Sanofi.

adopted to verify the robustness.

were using -20% to 20%. Probabilistic sensitivity analysis (PSA) was also

Non-CVdeath

¥0.00

¥0.00

in Chinese hypercholesterolemia adult patients

Jin Peng, Yue Ma, Xuelin Yao, Mao Fu, Yifan Wu, Minghuan Jiang* Department of Pharmacy Administration, School of Pharmacy, Xi'an Jiaotong University, Xi'an, China, 710061 *E-mail: jiangmh2017@.xjtu.edu.cn

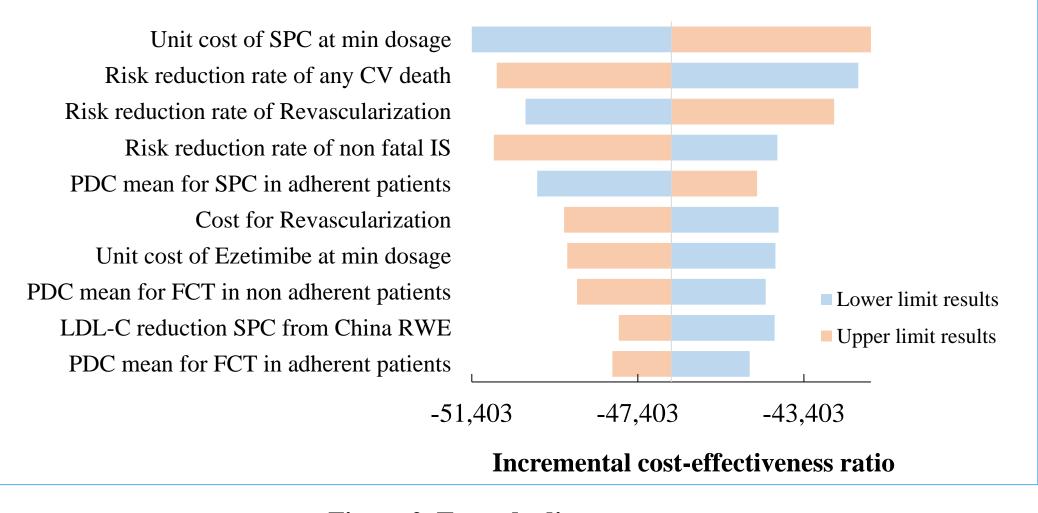
OBJECTIVES □ This study aimed to evaluate the cost-effectiveness of single pill combination (SPC) versus free combination treatment (FCT) of Rosuvastatin 10mg/Ezetimibe 10mg in Chinese moderate to very-high risk hypercholesterolemia adult patients whose LDL-C was not adequately controlled receiving statin monotherapy (2023 Chinese Lipid Management Guidelines, IA). ODS Event Free NF-MI NF-Revasc NF-IS **Base case analysis** Post NF-MI Post NF-IS (0-1 year) Stable Post (0-1 year) Revasc Stable Post NF-MI Stable Post NF-IS Revascularization -Fatal Myocardial Infarction CV/ Non-CV death on-Fatal Ischemic Stroke schemic Stroke Cardiovascular CV: Figure 1 Markov model Table 1 Baseline patient characteristics^[2] Parameter Value Initial age (years) 61 Baseline LDL-C (mmol/L) level 3.4 Proportion of males 52.94% Sensitivity analysis Table 2 Baseline event probabilities in patients^[2] To event CV Revascularization **Untreated patients** \mathbf{MI} IS Death 2.33% 4.82% 3.18% 1.16% Event free **From state** Post non fatal MI (0-1 year) 7.02% 1.95% 16.76% 7.38% Stable post non fatal MI 0.40% 0.48% 2.17% 4.57% Post non fatal IS (0-1 year) 1.82% 3.50% 1.27% 27.76% 3.86% 2.04% Stable post non fatal IS 1.78% 0.57% 2.28% 1.90% 24.62% 2.45% Post Revasc Table 3 Overall reduction in LDL-C from baseline for SPC and FCT^[3] LDL-C Efficacy (% reduction in LDL-C) **Standard deviation** Treatment SPC 43.17% $\pm 16.11\%$ P<0.01 FCT ± 29.13% 29.14% Table 4 Risk reduction rate by event type (which is ratio per 1 mmol/L reduction) inputs Rate Ratio per 1.0 mmol/L **Events type (MACE)** reduction in LDL-C^[4] Non-fatal MI 0.74 Non-fatal IS 0.79 All years CONCLUSIONS 0.77 Stable post Revasc 0.88 CV death Table 5Event costs Health states **Event costs** (0-1 year) Stable (> 1 year) ¥0.00 ¥0.00 ¥0.00 **Event free** ¥41,308.54 ¥9,236.04 ¥9,236.04 NF-MI^[5] **NF-IS**^[5] ¥18,017.88 ¥9,367.62 ¥9,367.62 ¥72,975.69 ¥9,236.04 ¥9,236.04 **Post Revasc**^[5] ¥43,531.49 ¥0.00 ¥0.00 CV death^[5]

¥0.00

Table 6 Drug	g costs of ti	reatments			Table 7	The CV risk of	patients on S	SPC						
Freatment	Daily cost (¥)	PDC I	Duration of treatment per year (days)	Annual cost (¥)		Health states	Post NF-MI (0-1 year)	Stable post NF-MI	Post NF-IS (0-1 year)	To star Stable post NF-IS		Post Revasc	CV death	Non-CV death
SPC FCT	3.10 3.60	0.73 0.55	266 201	826 722		Event free	1.50%	-	3.43%	-	Remainder	2.14%	0.96%	Age- Dependent
Table 8 Utili	itios					Post NF-MI (0-1 year)	4.571%	Remainder	1.38%	-	-	-	6.16%	Age- Dependent
Health s		Utility (0-1 ye	ear) Utility Stable	(> 1 year)	From state	Stable post NF-MI	0.26%	Remainder	3.26%	-	-	-	1.80%	Age- Dependent
Event fi	ree ^[6]	0.91	0.91			Post NF-IS (0-1 year)	-	-	20.55%	Remainder	-	-	2.91%	Age- Dependent
NF-M		0.67	0.82			Stable post NF-IS	-	-	0.40%	Remainder	-	-	1.69%	Age- Dependent
NF-IS Post Rev		0.33 0.90	0.52			Post Revasc	1.47%	-	1.35%	-	-]	Remainder	2.04%	Age- Dependent
CV / Non-C		0.00	/			CV death Non-CV death	-	-	-	-	-	-	100% -	- 100%

- Compared with FCT, patients treated with SPC was associated with cost savings of 8,232 RMB per patient, with an incremental greater quality-adjusted life years (QALY) of 0.177. The incremental cost effectiveness ratio (ICER, -46,508 ¥/QALY) below the willingness-to-pay threshold (2023 one gross domestic product per capita of China, ¥89,358). (Table 9)
- ◆ Compared to FCT, SPC reduces total MACE by 203 events per 1000 person, and Number Needed to Treat (NNT) was 4.93 (Table 10).

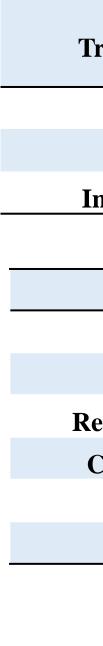
•One way sensitivity analysis demonstrated that the three most influential factors were the unit cost of SPC at the minimum dosage, the risk reduction rate of any CV death, and the risk reduction rate of revascularization (Figure 2).



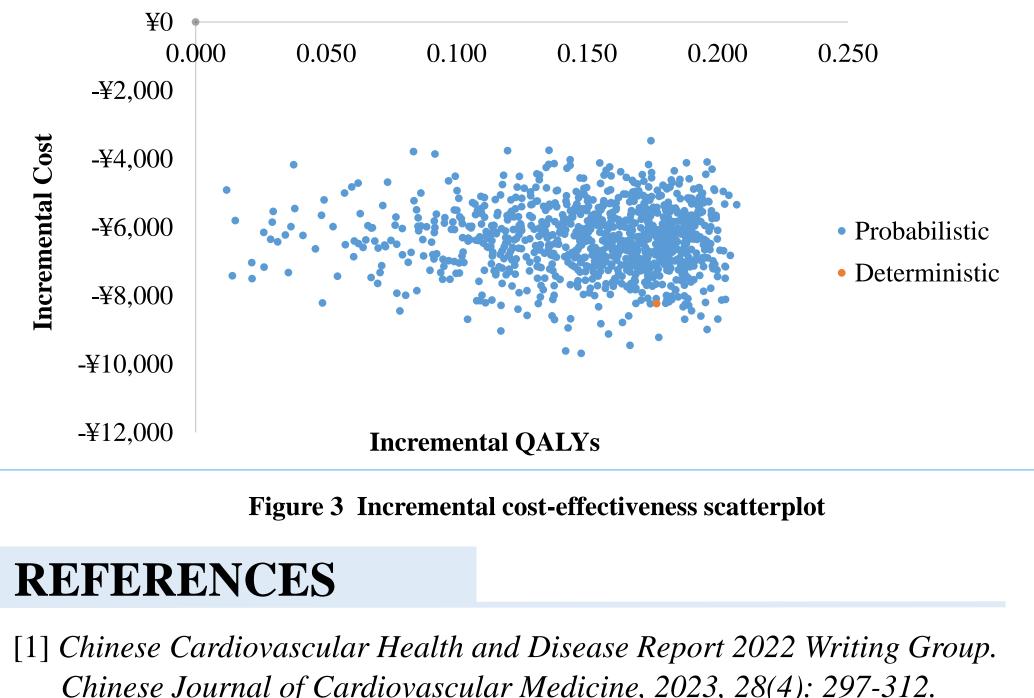


□ SPC demonstrates dominant economic and health value than FCT of Rosuvastatin 10mg/Ezetimibe 10mg in hypercholesterolemia patients whose LDL-C still above target despite on statin monotherapy in China from public healthcare perspective.

RESULTS



◆PSA employed 1000 Monte Carlo simulations for parameters. Results showed SPC was dominant with higher QALY gains and lower costs over FCT. It further confirmed the robustness of the results (Figure 3).



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Table 9 Base case results										
reatment	Total costs/¥	Total QALY	ICER (¥/QALY)							
SPC	99,938	8.316	(-, 2							
FCT	108,171	8.139								
Increment	-8,232	0.177	-46,508 (Dominant)							
Table 10 Number of adverse events avoided per 1000 patients										
	SPC	FCT	Increment							
MI	247	278	-31							
IS	569	626	-57							
evasc total	676	768	-92							
CV death	307	330	-23							
Total	1,799	2,002	-203							
NNT		4.93								

Chinese Journal of Cardiovascular Medicine, 2023, 28(4): 297-312. [2] Tianjing Urban Employee Basic Medical Insurance Database. [3] Xian WY, et al. Chin J Geriatr Heart Cerebrovasc Dis. 2024;26(8):898-901. [4] CTT Collaboration, et al. Lancet. 2010; 376(9753):1670-81. [5] *Li YG, et al. Chin J Pharm Econ.* 2018;13(3):5-12. [6] *Xie S, et al. Appl Health Econ Health Policy.* 2022;20(4):573-585. [7] Betts, M.B., et al. Health Qual Life Outcomes 18, 251 (2020). [8] Matza, L.S., et al. BMC Health Serv Res 15, 173 (2015).