## **SYNOPSIS**

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Name of Sponsor/Company	Daiichi Sankyo Co., Ltd.		
Name of Finished Product	NARURAPID® TABLETS		
Name of Active Ingredient	hydromorphone hydrochloride (INN)		
Title of Study	DS-7113b phase II study		
	A DS-7113b potency ratio assessment study in patients with cancer		
	pain		
Investigators	-		
Study Centre(s)	38 sites		
Publication (reference)			
Studied Period	July 2013 - December 2014		
Phase of Development	Phase 2		
Objectives	To verify the potency ratio of DS-7113b to morphine, based on the		
	pain control achievement rates following treatment switch to		
	DS-7113b tablets from oral morphine in patients under cancer pain		
	management. Also, to confirm the efficacy and safety of the		
	therapy		
Methodology	A multicenter, randomized, double-blind, parallel-group study		
Number of Patients (planned	Planned:70 subjects		
and analyzed)	Analyzed:70 subjects		
Diagnosis and Main Criteria	Inclusion:		
for Inclusion	Patients with cancer pain whose pain is controlled by 60		
	mg/day or 90 mg/day of an oral morphine steadly during the		
	screening period.		
	Patients whose frequency of rescue dose during the screening		
	period is two or less.		
	• Patients with an ECOG PS of $\leq 3$ , etc.		
	Exclusion:		
	Patients with serious hepatic, renal, or respiratory		
	disorder.		
	Patients with symptom(s)/finding(s) falling under the		
	contraindications or relative contraindications stated in the		
	package insert of oral morphine preparations, etc.		
Test Product, Dose and Mode	Test product (batch number):		
of Administration, Batch	DS-7113b tablet 1 mg (D7113T1H12T05)		
Number	DS-7113b tablet 1.25 mg (D7113T1H12T08)		
	DS-7113b tablet 2 mg (D7113T1H12T06)		

	Dosage and Administration:		
	The daily dose of each group is as shown in the table below,		
	depending on their oral morphine dose during the pre-treatment		
	observation period.		
	Daily dose		dose
	Groups —	Morphine 60mg/day	Morphine 90mg/day
	Conversion	12 mg	18 mg
	ratio 1:5 group  Conversion	7.5 mg	12 mg
	ratio 1:8 group  The study drug was ac		
	The study drug was administered until pain control was a or for 5 days, whichever was shorter. The study drug was		
	administered six times		, ,
Duration of Treatment	Pre-treatment obsevation period: 3 days		
	Treatment period: 5 days		
	Post-treatment obsevati	on period: 2 days	
Reference Therapy, Dose and	None		
Mode of Administration,			
Batch Number			
Criteria for Evaluation	Efficacy: Pain control ratio (Primary endpoint)		
	Safety: Adverse event,	Clinical laboratory	evaluation
Statistical Method	Primary endpoint:		
	The pain control ratio and its 95% confidence interval (CI) for		
	each group were cale	culated. Fisher's	exact test was used to
			ween groups, and the
	_		version ratio 1:5 group –
		- 1	6 CI (two-sided, normal
	approximation) were o		
Summary - Conclusion	-		s 83.3% in the conversion
			nversion ratio 1:8 group,
		ontrol ratio achieve	
			46.7% in the conversion
			nversion ratio 1:8 group,
		cant intergroup dif	
	-		eved by switching from conversion ratio of 1:5 or
		_	had achieved pain control
	_	_	icant difference between
	_	_	was observed in the
	groups. To fitte	1510up difference	was observed in the

	incidence of adverse events or serious adverse events. A
	conversion ratio between 1:5 and 1:8 is considered clinically
	appropriate for a switch from morphine to hydromorphone for
	pain control in cancer patients.
Date of Report	March 26, 2018