	SYNOPSIS		
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 III study		
	A randomized double-blind comparison study with immediate		
	release (IR) oxycodone in opioid-naive patients with cancer pain		
Investigators	-		
Study Centre(s)	50 sites		
Publication (reference)			
Studied Period	December 2013 – October 2014		
Phase of Development	Phase 3		
Objectives	To evaluate the efficacy and safety of DS-7113b IR tablet		
	additionally dosed in a randomized double-blind comparison study		
	with IR oxycodone in opioid-naive patients under cancer pain		
	management refractory to non-opioid analgesics.		
Methodology	A multicenter, active controlled, randomized, double-blind,		
	parallel-group study		
Number of Patients (planned	Planned:180 subjects		
and analyzed)	Analyzed: 172 subjects		
Diagnosis and Main Criteria	Inclusion:		
for Inclusion	• Patients receiving non-opioid analgesics for cancer pain, who		
	have not been receiving opioid analgesics		
	• Patients whose VAS is \geq 35 mm and judged necessary to be		
	treated with strong opioid analgesics		
	• Patients with an ECOG Performance Status (PS) is \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 for oxycodone hydrochloride powder and		
	morphine hydrochloride preparations, etc.		
Test Product, Dose and Mode	Test product (batch number):		
of Administration, Batch	DS-7113b tablet 1 mg (D7113T1H12T05)		
Number	DS-7113b tablet 2 mg (D7113T1H12T06)		
	DS-7113b tablet 4 mg (D7113T1H12T07)		

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	Dosage and Administration:
	As in the table below, subjects received a hydromorphone tablet or
	a placebo tablet orally four times daily for 5 days. The initial doses
	of hydromorphone hydrochloride was 4 mg/day. When it was
	judged that a dose increase or reduce was necessary during the
	period of study drug administration, it was possible to increase or
	reduce the dose step by step.
	Daily dose
	1 4 mg
	2 8 mg
	3 12 mg
	4 16 mg
Duration of Treatment	Treatment period: 5 days
	Post-treatment obsevation period: 1 day
Reference Therapy, Dose and	Reference Therapy (batch number):
Mode of Administration,	Oxycodone hydrochloride powder 2.5 mg (W3078)
Batch Number	Oxycodone hydrochloride powder 5 mg (W3107)
	Dosage and Administration:
	As in the table below, subjects received oxycodone hydrochloride
	powder or placebo powder orally four times daily for 5 days. The
	initial doses of oxycodone hydrochloride was 10 mg/day. When it
	was judged that a dose increase or reduce was necessary during the
	period of study drug administration, it was possible to increase or
	reduce the dose step by step.
	Daily dose
	1 10 mg
	2 20 mg
	3 40 mg
	4 60 mg
Criteria for Evaluation	Efficacy: Change of VAS between pre-treatment and end of
	treatment (Primary endpoint)
	Safety: Adverse event, Clinical laboratory evaluation
Statistical Method	Primary endpoint:
	Summary statistics were calculated for VAS scores at baseline, at
	treatment completion/discontinuation and for the change in VAS
	scores. Analysis of covariance (ANCOVA) was conducted using
	the baseline VAS scores as a covariate to calculate the 95% CI
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	(two-sided) for a difference in the least squares mean in the
	magnitude of change in VAS scores between the hydromorphone
	and oxycodone groups. P-values and least squares means for each
	group were calculated.
Summary - Conclusion	• The intergroup difference (95% CI) in the least squares mean
	for the change in VAS scores at completion/discontinuation of
	treatment was -3.4 mm (-9.8 to 3.1 mm). Given that the
	upper limit of the 95% CI was <10 mm, the non-inferiority
	limit determined at the time of planning. Therefore, the
	non-inferiority of hydromorphone relative to oxycodone was
	suggested.
	• The incidence of adverse events was 83.0% in the
	hydromorphone group and 77.4% in the oxycodone group. No
	significant intergroup differences of the incidence of adverse
	event and serious adverse event were observed.
	Therefore, the efficacy and safety of hydromorphone tablets are
	comparable to those of oxycodone immediate-release formulation.
Date of Report	March 26, 2018