## SYNOPSIS

Name of	Daiichi Sankyo Co., Ltd.
Sponsor/Company	Banchi Sankyo Co., Etc.
Name of Finished Product	CONAZOID® 10 wiel feminischiem
	SONAZOID® 16 μL vial for injection
Name of Active Ingredient	perflubutane
Title of Study	DD-723 Phase II Clinical Trial
	- Dose-response study in patients with suspected prostate
	cancer -
Investigators	4 investigators
Study Centre(s)	4 centers
Publication (reference)	Uemura H, Sano F, Nomiya A, et al. Usefulness of
	perflubutane microbubble-enhanced ultrasound in
	imaging and detection of prostate cancer: phase II
	multicenter clinical trial. World Journal of Urology, 2013,
	31(5): 1123-1128.
Studied Period	9 months (March 2009 -December 2009 )
Phase of Development	Phase II
Objectives	Examination of the recommended dose based on the
	dose-response relationship, by assessing the contrast
	effect, as well as safety of DD-723 in subjects with
	suspected prostate cancer.
Methodology	Multicenter, randomized, and single-blind controlled trial:
	Dose-response study on three doses, parallel group, and
	blinded assessment by three independent blinded
	reviewers with respect to images that were randomized
	the order of assessment.
Number of Patients	Planned: 75 subjects (60 subjects for efficacy assessment,
(planned and analyzed)	15 subjects for training and inter-rater reliability
	confirmation)
	Treatment: 75 subjects
	Analyzed: 58 subjects
	Training and inter-rater reliability confirmation: 15
	subjects
Diagnosis and Main	1) Subjects with suspected prostate cancer
Criteria for Inclusion	2) Subjects whose most recent PSA level is between 4.0
	ng/mL and 20 ng/mL
	3) Subjects aged between 20 and 80 years at the time of
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	informed consent
Test Product, Dose and	A single dose of 0.024 $\mu$ L MB/kg, 0.12 $\mu$ L MB/kg, or 0.36
Mode of Administration,	μL MB/kg delivered via a forearm vein
Batch Number	Lot number: DD723L0S08T01A
Duration of Treatment	Single injection
Reference Therapy, Dose	N.A.
and Mode of	
Administration, Batch	
Number	
Criteria for Evaluation	Rate showed enough imaging effect by blinded reviewers:
	Results of multiple evaluations by three blinded
	reviewers were used to assess as the primary endpoint.
Statistical Method	The main target groups for the efficacy analysis was PPS,
	and the dose-response relationship of the efficacy rate of
	the overall contrast effect was evaluated in
	contrast-enhanced ultrasonography in PPS by
	Cochran-Armitage test using contrast coefficient (-2,1,1).
Summary - Conclusion	The primary endpoint was assessed in the efficacy
	analysis set, which comprised 58 (low dose group: 20
	subjects, intermediate dose group: 20 subjects, high dose
	group: 18 subjects) of the 75 patients (low dose group: 27
	subjects, intermediate dose group: 25 subjects, high dose
	group: 23 subjects).
	The efficacy rates in the overall contrast effect were 35.0%
	(7/20, 95%CI: 14.1 - 55.9) in the low dose group, 95.0%
	(19/20, 95%CI: 85.4 -100.0) in the intermediate dose
	group, and 77.8% (14/18, 95%CI:58.6 - 97.0) in the high
	dose group, respectively. That means that the highest
	efficacy rate was showed in the intermediate dose of 0.12
	μL MB/kg and also it was saturated in the intermediate
	dose [Cochrane–Armitage test using contrast coefficients
	(-2, 1, 1): P<0.001].
	Analysis of safety revealed no dose-dependence in terms of
	the incidence of adverse events, and all of the adverse
	events that occurred were mild.
Date of Report	Sep, 2014