Non-Interventional Study (NIS) Report

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Study number: 1199-0272 c39582397-02

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1. ABSTRACT

Name of company:			
Boehringer Ingelheim India Pvt. Ltd			
Name of finished medicinal product: Nintedanib Capsules			
Name of active ingred Nintedanib	lient:		
Report date:	Study number:	Version/Revision:	Version/Revision date:
14 Mar 2023	1199-0272	2.0	27 Nov 2023
Title of study:	An active surveillance to monitor the real-world safety in Indian patients prescribed nintedanib as per approved Indian Label for the treatment of locally advanced, metastatic or recurrent non-small cell lung cancer (NSCLC) of adenocarcinoma tumour histology after first-line chemotherapy.		
Keywords:	Lung cancer, kinase inhibitor, immunotherapy, growth factor receptors, chemotherapy		
Rationale and background:	Lung cancer is the second most common cancer and the leading cause of cancer deaths. Adenocarcinoma accounts for nearly half of all NSCLC cases. Majority of patients with advanced adenocarcinoma after the first-line chemotherapy experience disease progression requiring further lines of therapies. The median OS for the second line treatments is approximately 8-13 months. There is still a significant unmet need for new, effective second-line treatments for these patients who have a poor prognosis. Nintedanib is a small-molecule, oral triple angiokinase inhibitor which simultaneously inhibits FGFR 1-3, the PDGFR α and β, and the VEGFR 1-3. In the pivotal phase III trial (1199.13), nintedanib in combination with docetaxel provided 22% improvement in median OS and a 17% reduction in the risk of death in the nintedanib arm compared with the placebo arm. In addition, nintedanib significantly prolonged PFS in the overall patient population. The aim of this proposed active surveillance was to collect the real-world safety data of 100 patients treated with nintedanib and docetaxel per the approved Indian label within two years from the date of commercial availability of drug in India (23 rd January 2017) or as mentioned in the study approval letter issued by the DCGI at selected centres.		
Research question and objectives:	To evaluate real-world safety of nintedanib in Indian patients with NSCLC of adenocarcinoma histology after the first line of chemotherapy.		
Study design:	This was an active surveillance program, real world, non-interventional, multi-center study conducted to assess the safety of nintedanib in Indian patients with NSCLC. This study was conducted as per recommendation of the Indian regulatory agency Drugs Controller General of India (DCGI).		

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Name of company: Boehringer Ingelheim India Pvt. Ltd Name of finished medicinal product: Nintedanib Capsules Name of active ingredient: Nintedanib Report date: Study **Version/Revision:** Version/Revision number: date: 1199-0272 14 Mar 2023 2.0 27 Nov 2023 100 NSCLC patients treated with nintedanib as per the approved Indian labels were to be enrolled in this active surveillance. They were classified into following groups: Group A. Patients who had started treatment with nintedanib and docetaxel after 23rd January 2017 and had discontinued the drug at the time of participation in the active surveillance. Group B. Patients who started treatment with nintedanib and docetaxel after 23rd January 2017 and were continuing the drug at the time of participation in the active surveillance. Group C. Patients were newly prescribed nintedanib and docetaxel at the time of participation in the active surveillance. This study also planned to enrol additional 100 patient with locally advanced, metastatic or recurrent NSCLC of adenocarcinoma tumour histology who were treated with single agent docetaxel after the first line chemotherapy. The patients were classified into following groups: Group I. Patients who started treatment with docetaxel after 23rd January 2017 and had discontinued the drug at the time of participation in the active surveillance. Group II. Patients who had started treatment with docetaxel after 23rd January 2017 and were continuing the drug at the time of participation in the active surveillance. Group III: Patients who were newly prescribed docetaxel at the time of participation in the active surveillance. At the baseline (Visit 1), baseline characteristics were recorded for all patients (treated with either nintedanib and docetaxel or single agent docetaxel). Thereafter, safety data was collected according to the clinical practice only for nintedanib treated patients during the duration of the treatment (approximately every 3 weeks when nintedanib was given along with docetaxel and every 4 weeks thereafter till nintedanib discontinuation) and up to 28 days after the last intake of nintedanib. Patients completing the follow up visit (End of treatment [EOT] visit + 28 days) were considered to have completed the study. Safety data was not collected for patients treated with single agent docetaxel as they were not followed up after the baseline visit. Among the 15 centres initiated for this active surveillance, 11 centres **Setting:** actively enrolled patients across India where NSCLC patients were

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	regularly treate	ed.		
Subjects and study size, including dropouts:	nintedanib and single agent do	study planned to enrol 100 patients with NSCLC who received edanib and docetaxel and 100 patients with NSCLC who received le agent docetaxel at same sites after 23 January 2017 usion criteria: In the nintedanib plus docetaxel groups, patients meeting		
	NSCL adenocinitiate accord	s ≥18 years of age with locally advanced and/or metastatic LC of stage IIIB or IV, or recurrent NSCLC and ocarcinoma histology after first line chemotherapy who had ted or were about to initiate nintedanib and docetaxel ding to the package insert after the commercial availability of in India (23 January 2017).		
	conser	s in whom it was possible to obtain voluntary informed ent from either the patient or patients legally authorised sentative (applicable for Group B and C patients).		
		ts in whom data collection was possible from the medical rds (applicable for Group A and B patients).		
	 Patients available 	in whom information about the studble.	y variables was	
	Exclusion criter below criteria w	eria: In the nintedanib plus docetaxel arm, patients meeting were excluded:		
	 Patients 	who were previously treated with ni	ntedanib.	
	in a cli	who were participating in a clinical inical study was allowed so long as the s before the first dose of nintedanibout	ne participation ceased	
	Inclusion crite included in the	eria: In the single agent docetaxo study were:	el groups, the patients	
	NSCL adenoc initiate	≥18 years of age with locally advand C of stage IIIB or IV, or recurrent No carcinoma histology after first line che and or were about to initiate single age ercial availability of nintedanib in Ind	SCLC and nemotherapy who had ent docetaxel after the	
	conser	in whom it was possible to obtain vont either from patient or patients legal entative (applicable for Group II and	lly authorised	

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	 Patients in whom data collection was possible from the medical records (applicable for Group I and II patients). Patients in whom information about the study variables was 		
	availal		y variation was
	Exclusion criteria: In the single agent docetaxel groups, patients meeting below criteria were excluded:		
	Patients who were previously treated with docetaxel.		
	 Patients who were participating in a clinical trial. (Past participation in a clinical study was allowed so long as the participation ceased 30 days before the first dose of nintedanib or docetaxel) 		
Variables and data sources:	Data collected from follow-up and medical notes were entered by the site in the electronic CRF forms. The medical records of patients belonging to Group A and B were evaluated for any ADRs or SAEs that had occurred. Group B and Group C patients were followed up according to clinical practice at the scheduled visit. At each visit, all ADRs associated with nintedanib and SAEs were recorded and reported. Following variables were considered for the study analyses:		
	• Exposures	,	J
	 Safety outcomes (including ADRs and treatment emergent adverse events) 		
	Other outc	omes:	
	o Demogr	raphics	
	 Baseline characteristics (demographics, NSCLC related variables, previous anti-cancer therapy and overall clinical characteristics) 		
		ance status	
	Comorbidities including known Hepatic/Renal impairment		
	Co-medications including docetaxel		
	Bleeding risk Thrombotic risk		
	O Thrombotic risk O Laboratory tests		
	Laboratory testsVital signs and physical examination		
	Pregnancy status		
	_	o had taken at least one dose of nin	tedanib were included in

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	the safety analysis. Descriptive statistics were calculated for safety and other variables. For safety outcomes, incidence rates with corresponding 95% confidence intervals were calculated. An interim analysis was not performed.		
Results:	Fifteen centres were initiated for this non-interventional study in India. A total of 28 patients with adenocarcinoma NSCLC and meeting the study eligibility criteria were enrolled in the study from 11 centres; of which, 13 patients completed the study (EOT visit + 28 days). Of the 28 enrolled patients, 23 patients received nintedanib plus docetaxel and 5 patients received the single agent docetaxel. Patients who received the single agent docetaxel were not followed up after the baseline visit as per the study design. The patients (n=23) who received nintedanib plus docetaxel had to discontinue the study treatment due to following reasons: 11 patients discontinued study treatment due to disease progression, 5 patients were lost to follow-up, 4 patients discontinued due to other reasons (one patient expressed cost issue, one patient refused to come to the site for further visits, one patient wanted to continue his treatment at another site, one patient could not afford the medication), 2 patients discontinued due to AEs, and one patient switched to another anti-cancer therapy. At the follow-up visit (28 days after the last dose of treatment), 12 of 23 patients		
	progression. H Of the 28 enrowmen. The median time of the patients locally advance each (3.6%). B	be alive and 1 patient was reported a lowever, this patient died the next day lled patients, 21 (75.0%) were men a nean (SD) age of the patients was 58. he since NSCLC diagnosis was 258 d were diagnosed with metastatic disease disease and recurrent disease was destrain metastases were reported in 3 (1) danib plus docetaxel in the study.	y of the follow up visit. nd 7 (25.0%) were 2 (9.6) years. Overall, lays. At baseline, most ase (26 [92.9%]), while liagnosed in one patient
	overall study p docetaxel grou agent docetaxe received at lease condition.	was the most common past or present copulation (8 [28.6%]) patients), in the p (6 [26.1%]), and the only medical group (2 [40.0%]). All the enrolled st one concomitant therapy for the or	ne nintedanib plus history in the single patients (n=28) ngoing medical
		patients treated with nintedanib plus d with metastatic disease and only 1	

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Nintedanib				
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14 Mar 2023		ase at baseline. The time since diagn		
		7 days to 1375 days.	osis of the disease	
	Among the 5 patients treated with the single agent docetaxel, 4 patients were diagnosed with metastatic disease and only one patient with recurrent disease. The time since disease diagnosis ranged from 305 days to 1712 days.			
	Among those patients who received nintedanib plus docetaxel, the mean (SD) days on nintedanib plus docetaxel treatment was 119.1 (119.3) days. The range was from 14 to 558 days.			
	In this study, safety outcomes were analysed in 23 patients treated with nintedanib plus docetaxel. TEAE of any grade were reported in 10 of 23 (43.4%) patients treated with nintedanib plus docetaxel. TEAEs reported in more than one patient were malignant neoplasm progression (5 [50.0%] patients) and cough (2 [20.0%] patients).			
	plus docetaxel Grade 1 severi one ADR of G ADRs were no reported in one Both the patier	eported in 2 (8.6%) of the 23 patients treated with nintedanibel (treated patients), one patient experienced two ADRs of rity (abdominal pain and diarrhoea) and the second patient had Grade 2 severity (gastrointestinal toxicity). All the three ion serious. The ADRs (abdominal pain and diarrhoea) ne patient led to permanent discontinuation of nintedanib. ents had recovered from the reported ADRs. The incidence in the study was estimated as 17.9 (95% CI: 2.2 to 64.7) per		
	nintedanib pluseverity. Serio	Es were reported for 9 (39.1%) of the 23 patients treated with us docetaxel; these events were either Grade 2, 3, or 5 in ous TEAEs reported in more than one patient were malignant gression (5 [55.5%] patients).		
	experienced se neoplasm prog pulmonary em (death and mal patients; each	0.4%) patients treated with nintedan rious TEAEs with fatal outcome; the ression (5 [55.5%]), lung adenocare bolism (1 [11.1%]). Non-treatment elignant neoplasm progression) were reported in only one patient. None or related to the study treatment.	ese were malignant inoma (1 [11.1%]), and emergent fatal AEs reported for two	
	leading to nint	%) nintedanib plus docetaxel-treated edanib dose reduction which include a, and dyspnoea.	-	

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	Occurrence of Grade 5 TEAEs (7 [30.4%] patients) was more than that of Grade 1, 2, and 3 TEAEs (3 [13.0%], 3 [13.0%]), and 1 [4.3%] patients, respectively).			
	laboratory para noted in any vi	clinical meaningful change in mean value over time was observed in ratory parameters in the study. No clinically meaningful trend was d in any vital signs and weight measurements during the study.		
D'	No pregnancy was reported during the study.			
Discussion:	In this study in India, among patient treated with nintedanib and docetaxel, ADRs, serious TEAEs, and fatal TEAEs were reported in 8.6%, 39.1%, and 30.4% patients treated with nintedanib. None of the ADRs were serious or fatal. Only 1 ADR led to discontinuation of treatment and none of the ADRs resulted in dose reductions of treatment. ADRs reported in the study were gastrointestinal disorders (abdominal pain, diarrhoea, gastrointestinal toxicity) and were of Grade 1 or 2 severity. Most common TEAEs were benign, malignant and unspecified neoplasms (malignant neoplasm progression and lung adenocarcinoma). In this real-world active surveillance, treatment with nintedanib plus docetaxel was found to be tolerable with no new or unexpected safety signals in the studied Indian population.			
Marketing Authorisation Holder(s):	Boehringer Ingelheim India Pvt. Ltd			
Names and affiliations of principal investigators:	List of name and affiliation of the principal investigator for this study is provided in Appendix 3.			