Development Pipeline Progress Status

Jul 31, 2020



Cautionary Notes

Forecasts and other forward-looking statements included in this document are based on information currently available and certain assumptions that the Company deems reasonable.

Actual performance and other results may differ significantly due to various factors. Such factors include, but are not limited to:

- (i) failures in new product development
- (ii) changes in general economic conditions due to reform of medical insurance system
- (iii) failures in obtaining the expected results due to effects of competing products or generic drugs
- (iv) infringements of the Company's intellectual property rights by third parties
- (v) stagnation of product supply from the delay in production due to natural disasters, fires and so on
- (vi) onset of new side effect of post-licensure medical product and,(vii) currency exchange rate fluctuations and interest rate trend.

Information about pharmaceutical products (including products currently in development) included in this document is not intended to constitute an advertisement of medical advice.

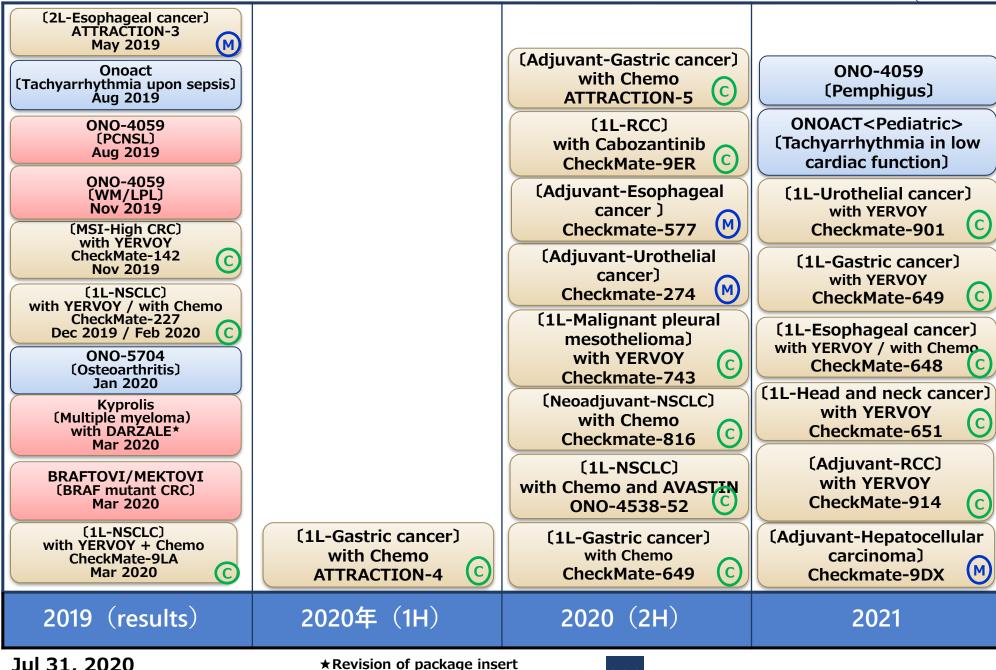
Plan for Submissions in Japan

OPDIVO

Non-OPDIVO Oncology

Non-Oncology

OPDIVO M=Mono C=Combo



Development status of OPDIVO (1)

As of Jul 24, 2020

Target disease	JAPAN	US/EU	AS of Jul 24, 2020 KR/TW
Melanoma (1 st)	Approved	Approved	Approved
Melanoma (Adjuvant Therapy)	Approved	Approved	Approved
Non-small cell lung cancer (2 nd ∼)	Approved	Approved	Approved
Non-small cell lung cancer (1st)	Filing	Approved(US) Filing(EU)	ш
Renal cell carcinoma (2 nd ∼)	Approved	Approved	Approved
Renal cell carcinoma (1st)	Approved	Approved	Approved
Hodgkin's lymphoma	Approved	Approved	Approved
Head and neck cancer	Approved	Approved	Approved
Gastric cancer (3 rd)	Approved	ш	Approved
Gastric cancer (1st)	Filing	-	ш
Malignant pleural mesothelioma	Approved	ш	-
Colorectal cancer (MSI-H)	Approved	Approved (US) II/III(EU)	Approved(TW)
Esophageal cancer	Approved	Approved (US) III(EU)	Approved(KR) Approved(TW)
Gastro-esophageal junction cancer and esophageal cancer	Ш	ш	Ш
Small cell lung cancer	Ш	Approved (US) III (EU)	Ш
Hepatocellular carcinoma	ш	Approved (US) III (EU)	皿(KR) Approved (TW)

Development status of OPDIVO (2)

As of Jul 24, 2020

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Target disease	JAPAN	US/EU	KR/TW
Glioblastoma	Ш	Ш	-
Urothelial cancer	Ш	Approved	Approved
Ovarian cancer	ш	ш	ш
Bladder cancer	Ш	Ш	Ш
Cervix carcinoma, Uterine body cancer, Soft tissue sarcoma	п	-	-
Central nervous system lymphoma, Primary Testicular Lymphoma	п	п	-
Pancreatic cancer	П	П	п
Virus positive/negative solid carcinoma	Ι/Π	I/II	I/I
Biliary tract cancer	п	-	-
Multiple myeloma	-	Ш	-
Diffuse large B cell lymphoma (Non-Hodgkin's lymphoma)	-	п	-
Follicular lymphoma (Non-Hodgkin's lymphoma)	-	п	-
Prostate cancer	Ш	Ш	ш
Pancreatic cancer, Triple negative breast cancer	-	Ι/Π	-
Blood cancer (T-cell lymphoma, Multiple myeloma, Chronic leukemia, etc.)	-	I	-
Chronic myeloid leukemia	-	I	-

Clinical trials in combination therapy OPDIVO & other Immuno-Oncology compounds (1)

As of Jul 24, 2020

Product name (Generic name) Pharmacological action	Cancer type	Japan	US/EU	KR/TW
	Melanoma	Approved	Approved	Approved
	Renal cell carcinoma	Approved	Approved	Approved
	Non-small cell lung cancer	Filing	Approved(US) Filing(EU)	ш
	Small cell lung cancer	Ш	ш	Ш
	Head and neck cancer	Ш	ш	Ш
Yervoy Injection (Ipilimumab) Anti-CTLA-4 antibody	Gastric cancer	Ш	ш	Ш
	Malignant pleural mesothelioma	ш	П	-
	Esophageal cancer	Ш	ш	Ш
	Urothelial cancer	Ш	ш	Ш
	Hepatocellular carcinoma	ш	Approved(US) Ⅲ(EU)	ш
	Colorectal cancer (MSI-H)	Filing	Approved(US) II (EU)	Approved(TW)
	Ovarian cancer	-	I / II	-
	Virus positive/negative solid carcinoma	I / II	I / II	I / II

Clinical trials in combination therapy OPDIVO & other Immuno-Oncology compounds (2)

As of Jul 24, 2020

			A3 UI	Jul 24, 2020
Development code (Generic name) Pharmacological action	Cancer type	Japan	US/EU	KR/TW
ONO-7701 (Linrodostat) IDO1 inhibitor	Bladder cancer	ш	ш	ш
ONO-4687 (Cabiralizumab) Anti-CSF-1R antibody	Pancreatic cancer	П	П	п
ONO-4686 Anti-TIGIT antibody	Solid tumor	I / II	I / II	-
ONO-7807 Anti-TIM-3 antibody	Solid tumor	I / II	I / II	-
ONO-4482 (Relatlimab) Anti-LAG-3 antibody	Melanoma	I / II	п/ш	-
ONO-4483 (Lirilumab) Anti-KIR antibody	Solid tumor	I	I / II	-
ONO-4578 PG receptor (EP4) antagonist	Solid tumor	I	I / II	-
ONO-7475 AxI/Mer inhibitor	Solid tumor	I	-	-
ONO-7911 (Bempegaldesleukin) PEGylated IL-2	Solid tumor	I	Ι/Π	-
	Melanoma	-	Ш	-
	Renal cell carcinoma	-	Ш	-
	Bladder cancer	-	Ш	-

Development pipeline in Japan (Oncology, other than OPDIVO)

*Combination with Opdivo.

As of Jul 24, 2020

Product name/ Development code (Generic name)	Target indication	Pharmacological action
[Filing]		
ONO-7643 (Anamorelin)	Cancer cachexia (in all types of cancer)	Ghrelin mimetic
VELEXBRU (Tirabrutinib)	Primary macroglobulinemia Lymphoplasmacytic lymphoma	BTK inhibitor
BRAFTOVI (Encorafenib)	BRAF-mutant colorectal cancer	BRAF inhibitor
MEKTOVI (Binimetinib)	BRAF-mutant colorectal cancer	MEK inhibitor
【Phase I 】		
ONO-4578*	Solid tumor	PG receptor (EP4) antagonist
ONO-7475*	Solid tumor	AxI / Mer inhibitor
ONO-7913	Solid tumor	Anti-CD47 mAb
ONO-7912	Pancreatic Cancer	Cancer metabolism inhibitor

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Development pipeline in Japan (Non-oncology) (1)

As of Jul 24, 2020

Product name/ Development code (Generic name)	Target indication	Pharmacological action		
[Approved/Launched]				
ONGENTYS / ONO-2370 (Opicapone)	Parkinson's disease	Long acting COMT inhibitor		
ONOACT (Landiolol hydrochloride)	Tachyarrhythmia upon sepsis	Short-active selective β ₁ blocker		
[Filing]				
ONO-5704 · SI-613	Osteoarthritis	Hyaluronic acid-NSAID		
【PhaseⅢ】				
ORENCIA SC (Abatacept)	Polymyositis/Dermatomyositis	T-cell activation inhibitor		
【Phase II / III 】				
ONOACT (Landiolol hydrochloride)	Tachyarrhythmia in low cardiac function <pediatric></pediatric>	Short-active selective β1 blocker		

Development pipeline in Japan (Non-oncology) (2)

As of Jul 24, 2020

Product name/ Development code (Generic name)	Target indication	Pharmacological action
【Phase II 】		
ONO-5704 · SI-613	Enthesopathy	Hyaluronic acid-NSAID
VELEXBRU (Tirabrutinib)	Pemphigus	BTK inhibitor

【Phase I 】		
ONO-7269	Cerebral infarction	FXIa inhibitor
ONO-4685	Autoimmune disease	PD-1×CD3 bispecific antibody
ONO-2910	Peripheral nerve disorder	Enhancement of Schwann cell differentiation
FOIPAN (Camostat mesilate)	Novel coronavirus infection (COVID-19)	Protease enzyme inhibitor

Global development projects (Other than OPDIVO)

As of Jul 24, 2020

Development code (Generic name)	Target indication	Pharmacological action	Area
【PhaseⅢ】			
BRAFTOVI (Encorafenib)	BRAF-mutant colorectal cancer	BRAF inhibitor	KR
	BRAF-mutant melanoma		KR
MEKTOVI (Binimetinib)	BRAF-mutant colorectal cancer	MEK inhibitor	KR
,	BRAF-mutant melanoma		KR
ONO 7042 CDI C42 (Deviminates)	Pancreatic cancer	Canada matakaliam inkikitar	KR
ONO-7912 · CPI-613 (Devimistat)	Acute myeloid leukemia	Cancer metabolism inhibitor	KR
【Phase I】			
ONO-7475	Acute leukemia	Axl / Mer inhibitor	us
ONO-7684	Thrombosis	FXIa inhibitor	EU
ONO-2808	Neurodegenerative disease	S1P5 receptor agonist	EU

*Combination with Opdivo.



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