Development Pipeline Progress Status





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.

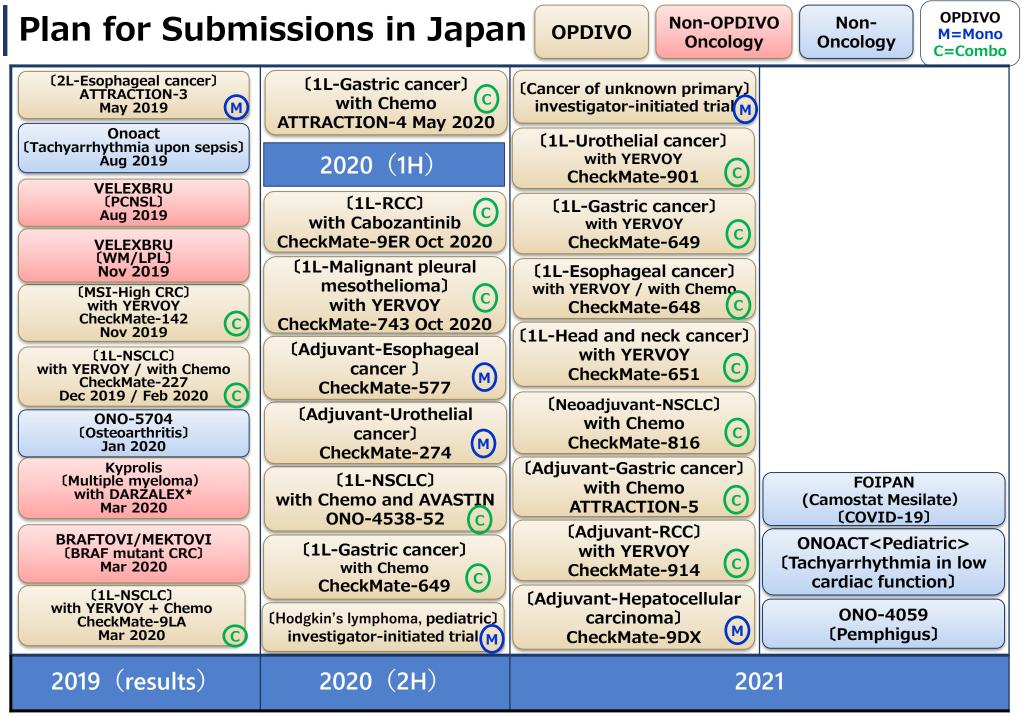
Actual performance and other results may differ significantly due to various factors. Such factors include, but are not limited to:

- (*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.





Oct 27, 2020

\star Revision of package insert



Development status of OPDIVO (1)

As of Oct 27, 2020

Target	Line of Therapy Trea	Treatment			Phase		
disease	Line of Therapy	freatment	Japan	Korea	Taiwan	US	EU
Melanoma	Adjuvant ∙ 1st ∙ 2nd	Monotherapy, with lpi (1 st line only)	Approved	Approved	Approved	Approved	Approved
	Neo-adjuvant	with Chemo	III	III	III	III	III
		with lpi	Filed	III	III	Approved	—
Non-small cell	1st	with lpi + Chemo	Filed	III	III	Approved	Filed
lung cancer	151	with Chemo	Filed	Ш	Ш	—	_
		with Chemo (NSQ)	III	III	III	_	_
	2nd	Monotherapy	Approved	Approved	Approved	Approved	Approved
	Adjuvant	with lpi	III	_	_	III	III
	1st	with lpi	Approved	Approved	Approved	Approved	Approved
Renal cell carcinoma -		with TKI	Filed	III	III	Filed	Filed
		with lpi + TKI	_	111	- 111		III
	2nd	Monotherapy	Approved	Approved	Approved	Approved	Approved
Hodgkin's	Relapsed	with Brentuximab	III	_	_	III	_
lymphoma	/Refractory	Monotherapy	Approved	Approved	Approved	Approved	Approved
Head and	1st	with lpi	III	III	III	III	III
neck cancer	2nd	Monotherapy	Approved	Approved	Approved	Approved	Approved
Malignant pleural	1st	with lpi	Filed	_	_	Approved	Filed
mesothelioma	SOC refractory	Monotherapy	Approved	_	_		_



Development status of OPDIVO (2)

As of Oct 27, 2020

Target	Line of Therapy	Tantant			Phase		
disease		Treatment	Japan	Korea	Taiwan	US	EU
	Adjuvant	with Chemo	III	III	III	_	_
		with Chemo	Filed	III	=	_	_
Gastric cancer	1st	with Ipi, with Chemo			II	III	III
	3rd	Monotherapy	Approved	Approved	Approved	—	_
	Adjuvant	Monotherapy	III	III	III	III	III
Esophageal cancer	1st	with Ipi, with Chemo		III	III	III	III
	2nd	Monotherapy	Approved	Approved	Approved	Approved	Filed
	1st	with Chemo	II / III	_	—	II / III	II / III
Colorectal	MSI-H/dMMR (1st)	with lpi	III	_	_	III	Ш
cancer	MSI-H∕dMMR	Monotherapy	Approved	_	Approved	Approved	-
	(3rd)	with lpi	Approved	_	Approved	Approved	Filed
	Adjuvant	Monotherapy	III	III	III	III	III
Hepatocellular carcinoma	1st	with lpi	III	III		III	III
	2nd	Monotherapy, with lpi	II	II	Approved	Approved	II
Biliary tract cancer	2nd	Monotherapy	Ш	_	_	_	_



Development status of OPDIVO (3)

As of Oct 27, 2020

Target	Line of Therapy Tr	Treatment			Phase		
disease			Japan	Korea	Taiwan	US	EU
Urothelial	Adjuvant /Neo-adjuvant	with IDO1 inhibitor + Chemo, with Chemo	Ш	III	III	III	Ш
cancer / Bladder	Adjuvant	Monotherapy	Ш	III	II	III	III
cancer	1st	with Ipi, with Chemo		III	III	III	III
	2nd	Monotherapy	=	Approved	Approved	Approved	Approved
Glioblastoma	1st (MGMTmethylated)	with chemoradiotherapy	Ш	_	_	III	Ш
Gilopiastoma	1st (MGMT un-methylated)	with radiotherapy	Ш	_	_	III	III
Ovarian	1st	with Rucaparib	Ш	III	Ш	III	III
cancer	2nd	Monotherapy	Ξ	_		_	_
Small cell lung cancer	3rd	Monotherapy		_	_	Approved	_
	240 mg (every 2 weeks)		Approved	Approved	III	Approved	Approved
Dosage and Administration	360 mg(every	3 weeks)	Filed	III	II	Approved	Filed
	480 mg(every	4 weeks)	Approved	Approved	III	Approved	Approved



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

As of Oct 27, 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-4686 Anti-TIGIT antibody	Solid tumor	I / II	I / I	-
ONO-7807 Anti-TIM-3 antibody	Solid tumor	I / I	I / I	-
ONO-4482 (Relatlimab) Anti-LAG-3 antibody	Melanoma	I / I	Ⅲ∕Ⅲ	-
ONO-4483 (Lirilumab) Anti-KIR antibody	Solid tumor	I	I / I	-
ONO-4578 PG receptor (EP4) antagonist	Solid tumor	I	I / I	-
ONO-7475 AxI/Mer inhibitor	Solid tumor	I	-	-
	Solid tumor	I	I / II	-
ONO-7911 (Bempegaldesleukin)	Melanoma	-	Ш	-
PEGylated IL-2	Renal cell carcinoma	-	Ш	-
	Bladder cancer	-	Ш	-



Development pipeline in Japan (Oncology, other than OPDIVO)

As of Oct 27, 2020

Product name/ Development code (Generic name)	Target indication	Pharmacological action
[Approved]		
VELEXBRU (Tirabrutinib)	Primary macroglobulinemia Lymphoplasmacytic lymphoma	BTK inhibitor
[Filed]		
ONO-7643 (Anamorelin)	Cancer cachexia (in all types of cancer)	Ghrelin mimetic
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 antibody
ONO-7912	Pancreatic Cancer	Cancer metabolism inhibitor
*Combination with Ondive	·	Dedu Undete efter Merc 0000

*Combination with Opdivo.



Red: Update after May 2020

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

As of Oct 27, 2020

Product name/ Development code (Generic name)	Target indication	Pharmacological action
[Approved]		
ONGENTYS (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 Oct 27, 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	Protease enzyme inhibitor

Global development projects (Other than OPDIVO)

As of Oct 27, 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 7012, CDI 612 (Devimietet)	Pancreatic cancer	Cancer metabolism inhibitor	KR
ONO-7912 · CPI-613 (Devimistat)	Acute myeloid leukemia		KR

[Phase I / II]			
ONO-7475	Acute leukemia	AxI / Mer inhibitor	US

【Phase I 】			
ONO-7684	Thrombosis	FXIa inhibitor	EU
ONO-2808	Neurodegenerative disease	S1P5 receptor agonist	EU

*Combination with Opdivo. Red: Update after May 2020

ONO PHARMACEUTICAL CO.,LTD.

Dedicated to Man's Fight against Disease and Pain