# Development Pipeline Progress Status

May 12, 2021



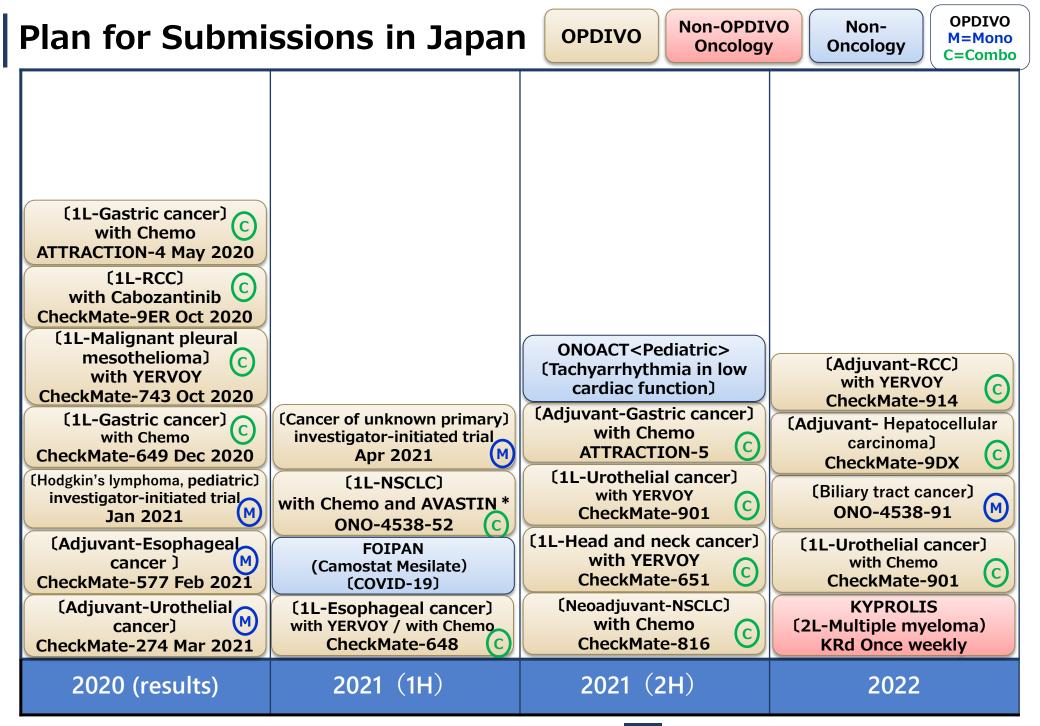
### **Cautionary Notes**

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.



<sup>\*</sup> Revision of labeling

## Development status of OPDIVO (1)

As of May 6, 2021

Target disease	Line of Therapy	Treatment	Japan	Korea	Phase Taiwan	US	EU
Melanoma	Adjuvant · 1st · 2nd	Monotherapy, with lpi (1 <sup>st</sup> line only)	Approved	Approved	Approved	Approved	Approved
	Neo-adjuvant	with Chemo	III	III	III	III	III
		with Ipi	Approved	Approved	Approved	Approved	-
Non amall as!!		with Ipi + Chemo	Approved	Approved	Approved	Approved	Approved
Non-small cell lung cancer	1st	with Chemo	Approved	III	_	_	_
		with Chemo (NSQ)	Consultation on revision of labeling	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	Approved	Approved
		with lpi + TKI	_	III	III	III	III
	2nd	Monotherapy	Approved	Approved	Approved	Approved	Approved
Hodgkin's	Relapsed /Refractory	with Brentuximab	III	_	_	III	-
lymphoma		Monotherapy	Approved	Approved	Approved	Approved	Approved
Head and neck cancer	1st	with lpi	III	III	III	III	III
	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 May 6, 2021

Target	L'accept The second	<b>.</b>	Phase				
disease Line of Therapy	Treatment	Japan	Korea	Taiwan	US	EU	
	Adjuvant	with Chemo	III	III	III	_	_
Gastric cancer	1st	with Chemo	Filed	III	III	Approved	Filed
Gastric cancer	151	with lpi	III	III	III	III	III
	3rd	Monotherapy	Approved	Approved	Approved	_	_
	Adjuvant	Monotherapy	Filed	III	III	Filed	Filed
Esophageal cancer	1st	with Ipi, with Chemo	III	III	III	III	III
	2nd	Monotherapy	Approved	Approved	Approved	Approved	Approved
Colorectal	1st	with Chemo	II / III	_	_	II / III	II / III
	MSI-H/dMMR (1st)	with lpi	III	_	_	III	III
cancer	MSI-Ḥ∕ḍMMR	Monotherapy	Approved	_	Approved	Approved	-
	(3rd)	with lpi	Approved	_	Approved	Approved	Filed*
Hepatocellular carcinoma	Adjuvant	Monotherapy	III	III	III	III	III
	1st	with lpi	III	III	III	III	III
	2nd	Monotherapy, with lpi	II	II	Approved**	Approved**	II
Biliary tract cancer	2nd	Monotherapy	II	_	_	_	

<sup>\* 2</sup>nd line

<sup>\* \*</sup> Monotherapy and with Ipi (US), Monotherapy only (Taiwan)

## Development status of OPDIVO (3)

As of May 6, 2021

Target	Line of Therapy Treatn	Tuestment	Phase				
disease		Treatment	Japan	Korea	Taiwan	US	EU
Urothelial cancer / Bladder cancer	Adjuvant /Neo-adjuvant	with IDO1 inhibitor + Chemo, with Chemo	III	III	III	III	III
	Adjuvant	Monotherapy	Filed	III	III	Filed	Filed
	1st	with Ipi, with Chemo	III	III	III	III	III
	2nd	Monotherapy	II	Approved	Approved	Approved	Approved
Ovarian cancer	1st	with Rucaparib	III	III	III	III	III
Dosage and Administration	240 mg (every 2 weeks)		Approved	Approved	III	Approved	Approved
	360 mg (every 3 weeks)		Approved	Approved	Approved	Approved	Approved
	480 mg (every 4 weeks)		Approved	Approved	III	Approved	Approved

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

As of May 6, 2021

			73 OI IVI	ay o, zozi
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	Ι / Π	-
ONO-7807 Anti-TIM-3 antibody	Solid tumor	Ι/Π	I / II	-
ONO-4482 (Relatlimab) Anti-LAG-3 antibody	Melanoma	Ι / Π	11/111	-
ONO-4483 (Lirilumab) Anti-KIR antibody	Solid tumor	I	Ι / Π	-
	Solid tumor, Gastric cancer	I	I / II	-
ONO-4578 *	Colorectal cancer	I	-	-
PG receptor (EP4) antagonist	Pancreatic cancer	I	-	-
	Non-small cell lung cancer	I	-	-
ONO-7475 Axl/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 area other than OPDIVO)

As of May 6 2021

		AS OF Way 6, 2021
Product name/ Development code (Generic name)	Target indication	Pharmacological action
[Approved]		
BRAFTOVI (Encorafenib)	BRAF-mutant colorectal cancer	BRAF inhibitor
MEKTOVI (Binimetinib)	BRAF-mutant colorectal cancer	MEK inhibitor
VELEXBRU (Tirabrutinib)	Waldenstorm macroglobulinemia / Lymphoplasmacytic lymphoma	BTK inhibitor
ADLUMIZ (Anamorelin)	Cancer cachexia (non-small cell lung cancer, gastric cancer, pancreatic cancer, colorectal cancer)	Ghrelin mimetic
【Phase II 】		
BRAFTOVI (Encorafenib)	BRAF-mutant thyroid cancer	BRAF inhibitor
MEKTOVI (Binimetinib)	BRAF-mutant thyroid cancer	MEK inhibitor
[Phase I]		
	Solid tumor, Gastric cancer	
ONO 4570 * . **	Colorectal cancer	PG receptor (EP4)
ONO-4578 * <sup>,</sup> **	Pancreatic cancer	antagonist
	Non-small cell lung cancer	
ONO-7475 *	Solid tumor	Axl / Mer inhibitor
ONO-7913	Solid tumor	Anti-CD47 mAb
ONO-7912	Pancreatic Cancer	Cancer metabolism inhibitor
	-!	!

<sup>\* \*</sup> ONO-4578 was out-licensed to BMS in 2017, but the rights were returned. ONO PHARMACEUTICAL CO.,LTD.

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

As of May 6, 2021

Product name/ Development code (Generic name)	Target indication	Pharmacological action	
[Approved]			
JOYCLU / ONO-5704 · SI-613	Osteoarthritis (knee joint and hip joint)	Hyaluronic acid-NSAID	
ONGENTYS (Opicapone)	Parkinson's disease	Long acting COMT inhibitor	
ONOACT (Landiolol hydrochloride)	Tachyarrhythmia associated with sepsis	Short-active selective β1 blocker	
【PhaseⅢ】			
ORENCIA (Abatacept)	Polymyositis/Dermatomyositis	T-cell activation inhibitor	
FOIPAN (Camostat mesilate)	Novel coronavirus infection	Protease enzyme 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 May 6, 2021

Product name/ Development code (Generic name)	Target indication	Pharmacological action	
【Phase II 】			
JOYCLU / ONO-5704 · SI-613	Enthesopathy	Hyaluronic acid-NSAID	
VELEXBRU (Tirabrutinib)	Pemphigus	BTK inhibitor	
ONO-2910	Peripheral neuropathy	Schwann cell differentiation promoter	
[Phase I]			
VELEXBRU (Tirabrutinib)	Generalized scleroderma	BTK inhibitor	
ONO-4685	Autoimmune disease	PD-1×CD3 bispecific antibody	
ONO-2909	Narcolepsy	PG receptor (DP1) antagonist	
ONO-2808	Neurodegenerative diseases	S1P5 receptor agonist	

## Global development projects (Other than OPDIVO)

As of May 6, 2021

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



Dedicated to Man's Fight against Disease and Pain