### Development Pipeline Progress Status

January 31, 2022



#### **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.

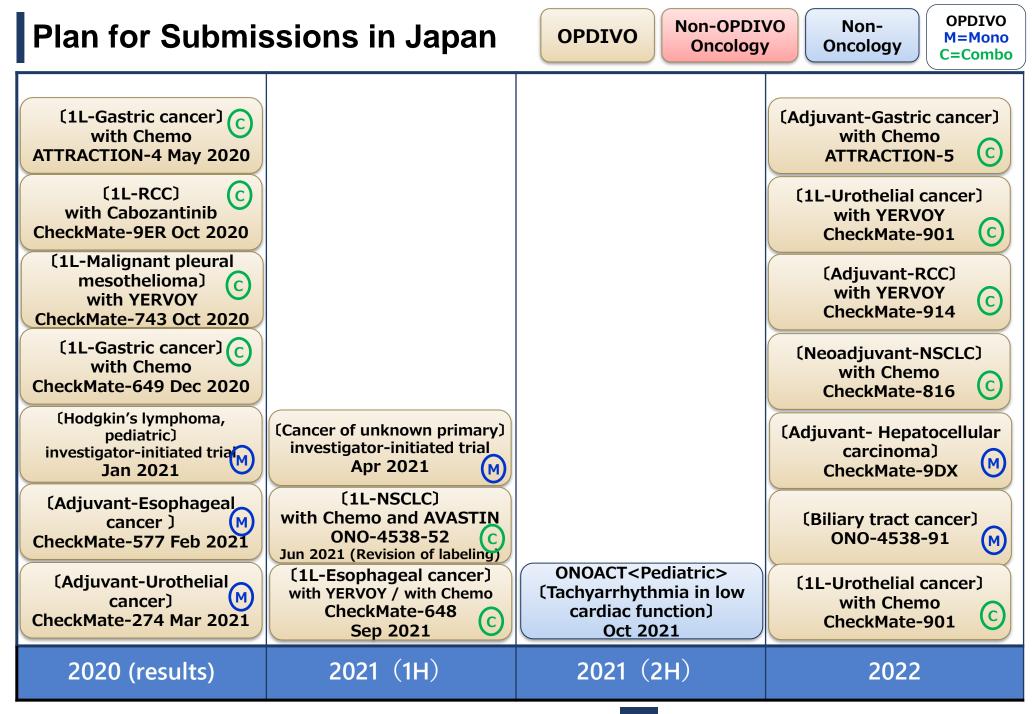
Actual performance and other results may differ significantly due to various factors. Such factors include, but are not limited to:

- (*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.





As of Jan 26, 2022



#### **Development status of OPDIVO (1)**

As of Jan 26, 2022

Target disease	Line of Therapy	Treatment	Phase Japan Korea 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
		with lpi	Approved	Approved	Approved	Approved	_
Non-small cell	_	with lpi + Chemo	Approved	Approved	Approved	Approved	Approved
lung cancer	1st	with Chemo	Approved	_	_	_	_
		with Chemo(NSQ)	Revision of labeling	III	Approved	_	_
	2nd	Monotherapy	Approved	Approved	Approved	Approved	Approved
	Adjuvant	with lpi	III	_	_	III	III
		with lpi	Approved	Approved	Approved	Approved	Approved
Renal cell carcinoma	1st	with TKI	Approved			Approved	Approved
		with lpi + TKI	_	III		III	III
	2nd	Monotherapy	Approved	Approved	Approved	Approved	Approved
Hodgkin's	Relapsed	with Brentuximab		—	—		_
lymphoma	/Refractory		Approved	Approved	Approved	Approved	Approved
Head and neck cancer	2nd	Monotherapy	Approved	Approved	Approved	Approved	Approved
Malignant pleural	1st	with lpi	Approved	Approved	Approved	Approved	Approved
mesothelioma	SOC refractory	Monotherapy	Approved	_	_	_	_



#### **Development status of OPDIVO (2)**

As of Jan 26, 2022

Target	Line of Treatment		Phase				
disease	Therapy	Treatment	Japan	Korea	Taiwan	US	EU
	Adjuvant	with Chemo	III	III	III	—	_
Gastric cancer	1st	with Chemo	Approved	Approved	Approved	Approved	Approved
Gastric cancer	151	with lpi + Chemo			III	_	_
	3rd	Monotherapy	Approved	Approved	Approved	_	_
	Adjuvant	Monotherapy	Approved		Approved	Approved	Approved
Esophageal cancer	1st	with Ipi, with Chemo	Filed	III	III	Filed	Filed
	2nd	Monotherapy	Approved	Approved	Approved	Approved	Approved
	1st	with Chemo	II / III	_	_	/	/
Colorectal	MSI-H/dMMR (1st)	with lpi	Ш	_	_	III	III
cancer	MSI-H,∕dMMR	Monotherapy	Approved	_	Approved	Approved	-
	(3rd)	with lpi	Approved	_	Approved	Approved	Approved*
	Adjuvant	Monotherapy	III			III	III
Hepatocellular carcinoma	1st	with lpi	III	III		III	III
	2nd	Monotherapy, with Ipi	II	II	Approved**	Approved**	II
Biliary tract cancer	2nd	Monotherapy	II	_	_	_	—

Red: Update after May 2021

\* 2nd line \* \* With Ipi (US), Monotherapy only (Taiwan)



#### **Development status of OPDIVO (3)**

As of Jan 26, 2022

Target	Ireatment	Phase					
disease		Treatment	Japan	Korea	Taiwan	US	EU
Urothelial	Adjuvant /Neo-adjuvant	with IDO1 inhibitor + Chemo, with Chemo	Ш	III	Ш	III	Ш
cancer / Bladder	Adjuvant	Monotherapy	Filed	III	=	Approved	Filed
cancer	1st	with lpi, with Chemo	=	III	Ш	III	III
	2nd	Monotherapy	=	Approved	Approved	Approved	Approved
Ovarian cancer	1st	with Rucaparib	=	III	III	III	III
castration- resistant prostate cancer	1st or 2nd	with Chemo	Ш	111	Ш	111	III
Pancreatic cancer	1st	with Chemo	Ш	II	Ш	_	_
Virus positive / negative solid carcinoma	Neo-adjuvant, $1st{\sim}3rd$	Monotherapy, with lpi (1st~3rd only)	1 / 11	1 / 11	1 / 11	1 / 11	1 / 11
Cancer of unknown primary	_	Monotherapy	Approved	_	_	_	_
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 1

As of Jan 26, 2022

Development code (Generic name) Pharmacological action	Cancer type	Japan	US/EU	KR/TW
ONO-7701 (Linrodostat) IDO1 inhibitor	Bladder cancer	III	III	III
ONO-4686 Anti-TIGIT antibody	Solid tumor	1 / 11	1/1	-
ONO-7807 Anti-TIM-3 antibody	Solid tumor	I / II	/	-
ONO-4482 (Relatlimab) Anti-LAG-3 antibody	Melanoma	1 / 11	Filed	-
	Solid tumor, Gastric cancer	I	1/1	-
ONO-4578	Colorectal cancer	I	-	-
PG receptor (EP4) antagonist	Pancreatic cancer	I	-	-
	Non-small cell lung cancer	I	-	-
ONO-7475 AxI/Mer inhibitor	Solid tumor	I	-	-

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

As of Jan 26, 2022

Development code (Generic name) Pharmacological action	Cancer type	Japan	US/EU	KR/TW
	Solid tumor	I	I / II	-
ONO-7911 (Bempegaldesleukin) PEGylated IL-2	Melanoma	-	III	-
PEGylated IL-2	Renal cell carcinoma	-	III	-
	Bladder cancer	-	III	-
ONO-7913 (Magrolimab)	Pancreatic cancer	I	-	-
Anti-CD47 antibody	Colorectal cancer	I	-	-
ONO-7119 (Atamparib) PARP7 inhibitor	Solid tumor	I	-	-
ONO-7122 TGF-βinhibitor	Solid tumor	I	-	-
ONO-7914 STING agonist	Solid tumor	I	-	-



## Development pipeline in Japan (Oncology area other than OPDIVO)

Product name/ Development code (Generic name)	Target indication	Pharmacological action	
【PhaseIII】			
ONO-7913 (Magrolimab)	TP53-mutant Acute myeloid leukemia	Anti-CD47 antibody	
【Phase II】			
BRAFTOVI (Encorafenib)	BRAF-mutant thyroid cancer	BRAF inhibitor	
MEKTOVI (Binimetinib)	BRAF-mutant thyroid cancer	MEK inhibitor	
【Phase I】			
	Solid tumor, Gastric cancer *		
	Colorectal cancer *		
ONO-4578	Pancreatic cancer *	PG receptor (EP4) antagonist	
0110 4370	Non-small cell lung cancer *		
	Hormone receptor-positive, HER2-negative breast cancer		
	Solid tumor *		
ONO-7475	EGFR mutation-positive non-small cell lung cancer	AxI / Mer inhibitor	
	Solid tumor		
	Myelodysplastic syndrome		
ONO-7913 (Magrolimab)	Pancreatic cancer *	Anti-CD47 antibody	
	Colorectal cancer *		
ONO-7912 (Devimistat)	Pancreatic cancer	Cancer metabolism inhibitor	

Red: Update after May 2021

Combination with Opdivo. \*



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## Development pipeline in Japan (Non-oncology)

#### As of Jan 26, 2022

Product name/ Development code (Generic name)	Target indication	Pharmacological action	
[Filed]			
ONOACT (Landiolol hydrochloride)	Tachyarrhythmia in low cardiac function <pediatric></pediatric>	Short-active selective $\beta_1$ blocker	
[PhaseIII]	- -		
ONO-2017 (Cenobamate)	Primary generalized tonic-clonic seizures	Inhibition of voltage-gated sodium currents/positive	
	Partial-onset seizures	allosteric modulator of GABA <sub>A</sub> ion channel	
【Phase II 】			
JOYCLU (Diclofenac etalhyaluronate)	Enthesopathy	Hyaluronic acid-NSAID	
VELEXBRU (ONO-4059:Tirabrutinib)	Pemphigus	BTK inhibitor	
ONO-2910	Diabetic polyneuropathy	Schwann cell differentiation promoter	
【Phase I】			
VELEXBRU (ONO-4059: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 devlopment projects (Other than OPDIVO)

As of Jan 26, 2022

Product name/ Development code (Generic name)	Target indication	Pharmacological action	Area
[Approved]			
BRAFTOVI (Encorafenib)	BRAF-mutant colorectal cancer	BRAF inhibitor	KR
VELEXBRU (ONO-4059:Tirabrutinib)	Primary central nervous system lymphoma	BTK inhibitor	KR
【PhaseIII】			
ONO-7912 (Devimistat)	Pancreatic cancer	Cancer metabolism	KR
	Acute myeloid leukemia	inhibitor	KR
ONO-7913 (Magrolimab)	ONO-7913 (Magrolimab) Acute myeloid leukemia		KR · TW
【Phase II 】		•	
ONO-4059 (Tirabrutinib)	Primary central nervous system lymphoma	BTK inhibitor	US
【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
ONO 4695	T-cell lymphoma	PD-1 x CD3	US
ONO-4685	Autoimmune disease	bispecific antibody	EU



# ONO PHARMACEUTICAL CO.,LTD.

Dedicated to the Fight against Disease and Pain