# Development Pipeline Progress Status

**November 2, 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.

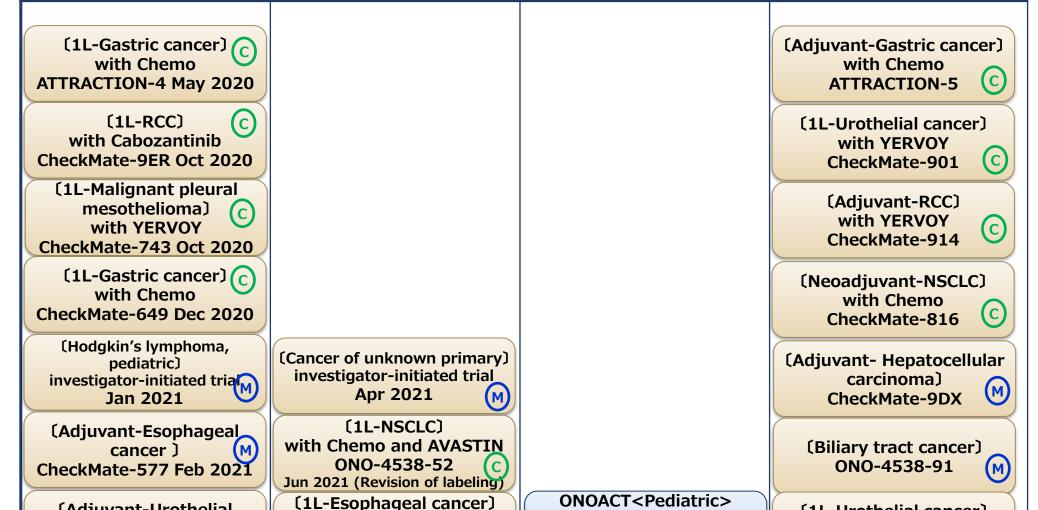
Information about pharmaceutical products (including products currently in development) included in this document is not intended to constitute an advertisement of medical advice.

#### Plan for Submissions in Japan

**OPDIVO** 

Non-OPDIVO Oncology

Non-Oncology OPDIVO M=Mono C=Combo



(Adjuvant-Urothelial cancer) M
CheckMate-274 Mar 2021

with YERVOY / with Chemo CheckMate-648 Sep 2021 (Tachyarrhythmia in low cardiac function)
Oct 2021

(1L-Urothelial cancer)
with Chemo
CheckMate-901

2020 (results) 2021 (1H)

2021 (2H)

2022

#### Development status of OPDIVO (1)

As of Oct 28, 2021

Target disease	Line of Therapy	Treatment	Japan	Korea	Phase Taiwan	US	EU
uiocacc			Japan	Norea	Taiwaii	03	LU
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-small cell	1-4	with lpi + Chemo	Approved	Approved	Approved	Approved	Approved
lung cancer	1st	with Chemo	Approved	_	_	_	_
		with Chemo (NSQ)	Revision of labeling	III	III	_	_
	2nd	Monotherapy	Approved	Approved	Approved	Approved	Approved
Renal cell carcinoma	Adjuvant	with Ipi	III	_	_	III	III
	1st	with Ipi	Approved	Approved	Approved	Approved	Approved
		with TKI	Approved	III	III	Approved	Approved
		with Ipi + 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	2nd	Monotherapy	Approved	Approved	Approved	Approved	Approved
Malignant pleural	1st	with Ipi	Approved	Approved	Approved	Approved	Approved
mesothelioma	SOC refractory	Monotherapy	Approved	_	_	_	_

#### Development status of OPDIVO (2)

As of Oct 28, 2021

Target Line of disease Therapy		Tuestusest	Phase				
		Treatment	Japan	Korea	Taiwan	US	EU
	Adjuvant	with Chemo	III	III	III	_	_
Gastric cancer	1st	with Chemo	Filed	Approved	Approved	Approved	Approved
dastric caricer	150	with Ipi + Chemo	III	III	III	_	_
	3rd	Monotherapy	Approved	Approved	Approved	_	_
	Adjuvant	Monotherapy	Filed	III	III	Approved	Approved
Esophageal cancer	1st	with lpi, with Chemo	Filed	III	III	Filed	Filed
	2nd	Monotherapy	Approved	Approved	Approved	Approved	Approved
Colorectal cancer	1st	with Chemo	II / III	_	_	II / III	II/III
	MSI-H/dMMR (1st)	with lpi	III	_	_	III	III
	MSI-H/dMMR (3rd)	Monotherapy	Approved	_	Approved	Approved	-
		with lpi	Approved	-	Approved	Approved	Approved*
Hepatocellular carcinoma	Adjuvant	Monotherapy	III	III	III	III	III
	1st	with Ipi	III	III	III	III	III
	2nd	Monotherapy, with Ipi	II	II	Approved**	Approved**	II
Biliary tract cancer	2nd	Monotherapy	Ш		_	_	

Red: Update after May 2021

\* \* With Ipi (US), Monotherapy only (Taiwan)

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

#### Development status of OPDIVO (3)

As of Oct 28, 2021

Target disease	Line of Therapy	Treatment	Japan	Korea	Phase Taiwan	US	EU
	Adjuvant /Neo-adjuvant	with IDO1 inhibitor + Chemo, with Chemo	III	III	III	III	III
Urothelial cancer	Adjuvant	Monotherapy	Filed	III	III	Approved	Filed
/ Bladder cancer	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
castration- resistant prostate cancer	1st or 2nd	with Chemo	III	III	III	III	III
Pancreatic cancer	1st	with Chemo	II	II	П	_	_
Virus positive / negative solid carcinoma	Neo-adjuvant, 1st∼3rd	Monotherapy, with lpi (1st∼3rd only)	1 / 11	1/11	1/11	1 / 11	1/11
Cancer of unknown primary	_	Monotherapy	Filed	_	_	_	_
_	240 mg (every 2 weeks)		Approved	Approved	III	Approved	Approved
Dosage and Administration	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 Oct 28, 2021

				<b>,</b>
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 / 11	-
ONO-7807 Anti-TIM-3 antibody	Solid tumor	1/11	1/11	-
ONO-4482 (Relatlimab) Anti-LAG-3 antibody	Melanoma	1/11	Filed	-
	Solid tumor, Gastric cancer	I	1/11	-
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	1/11	-
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 PARP7 inhibitor	Solid tumor	I	-	-

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

As of Oct 28, 2021

Product name/ Development code (Generic name)	Target indication	Pharmacological action	
【Phase II 】			
BRAFTOVI (Encorafenib)	BRAF-mutant thyroid cancer	BRAF inhibitor	
MEKTOVI (Binimetinib)	BRAF-mutant thyroid cancer	MEK inhibitor	
【Phase I 】	<u>'</u>		
	Solid tumor, Gastric cancer *		
	Colorectal cancer *	PG receptor (EP4) antagonist	
ONO-4578	Pancreatic cancer *		
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	Axl / Mer inhibitor	
	Solid tumor	Anti-CD47 antibody	
ONO-7913	Myelodysplastic syndrome		
0110-1312	Pancreatic cancer *		
	Colorectal cancer *		
ONO-7912	Pancreatic cancer	Cancer metabolism inhibitor	

<sup>\*</sup> Combination with Opdivo.



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

As of Oct 28, 2021

Product name/ Development code (Generic name)	Target indication	Pharmacological action	
[Filed]			
ONOACT (Landiolol hydrochloride)	Tachyarrhythmia in low cardiac function <pediatric></pediatric>	Short-active selective $oldsymbol{eta}_1$ blocker	
[PhaseIII]			
ORENCIA (Abatacept)	Polymyositis/Dermatomyositis	T-cell activation inhibitor	
(Phase II)			
JOYCLU/ ONO-5704 · SI-613	Enthesopathy	Hyaluronic acid-NSAID	
VELEXBRU (Tirabrutinib)	Pemphigus	BTK inhibitor	
ONO-2910	Diabetic polyneuropathy	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 Oct 28, 2021

Product name/ Development code (Generic name)	Target indication	Pharmacological action	Area
[Approved]			
BRAFTOVI (Encorafenib)	BRAF-mutant colorectal cancer	BRAF inhibitor	KR
【PhaseIII】			
ONO-7912 (Devimistat)	Pancreatic cancer Acute myeloid leukemia	Cancer metabolism inhibitor	KR KR
【Phase II 】			
ONO-4059 (Tirabrutinib)	Primary central nervous system lymphoma BTK inhibitor		US
【Phase I / II 】			
ONO-7475	475 Acute leukemia		US
【Phase I 】			
ONO-7684	Thrombosis	FXIa inhibitor	EU
ONO-2808	Neurodegenerative disease	S1P5 receptor agonist	EU
ONO-4685	T-cell lymphoma	PD-1 x CD3 bispecific	US
0110-4003	Autoimmune disease	antibody	EU



Dedicated to the Fight against Disease and Pain