



Japan Oncology Business

Taka Horii

Global Oncology Business Unit

Head of Japan Oncology Business Unit

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Better Health, Brighter Future

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VISION FOR TAKEDA ONCOLOGY

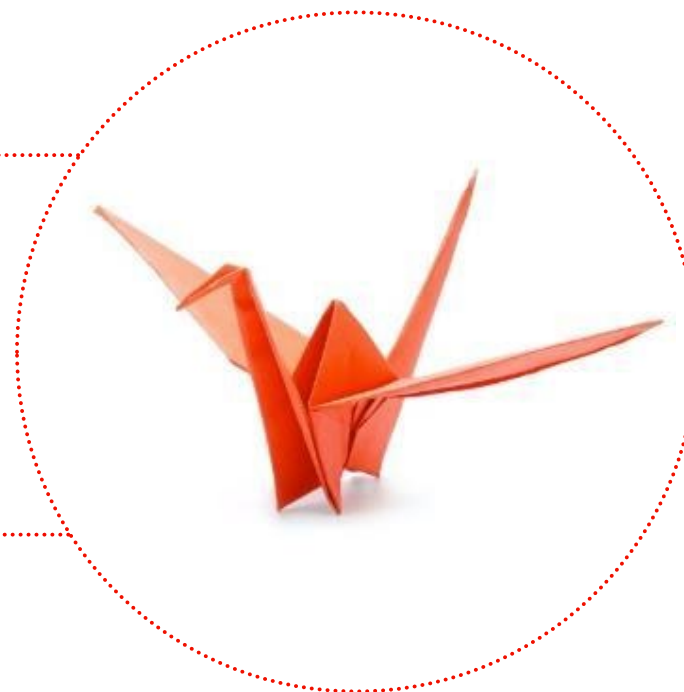


VISION

"We aspire to cure cancer"

AMBITION

Develop **transformative therapies**, built from **groundbreaking science**, accelerated by a **passionate team** united to **dramatically improve** the lives of people with cancer **around the globe**



JAPAN ONCOLOGY BUSINESS



We aspire to cure cancer for Japanese patients



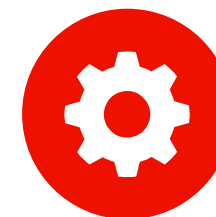
1. Diverse Leadership Team

Experienced, diverse leadership team driving growth through innovation



2. Future Growth

Further growth acceleration by diverse and robust pipelines



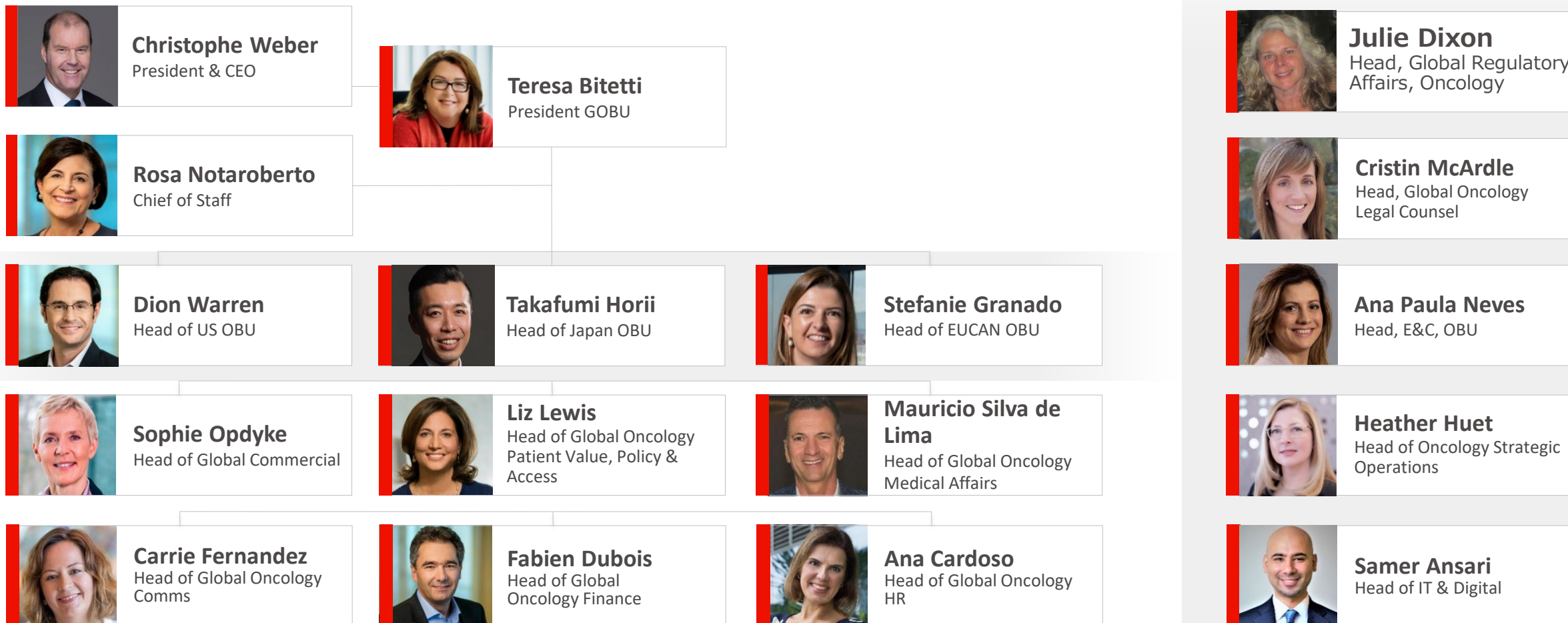
3. Our Capability

Track record on Clinical Development, Medical, Commercial and Digital

1. DIVERSE LEADERSHIP TEAM



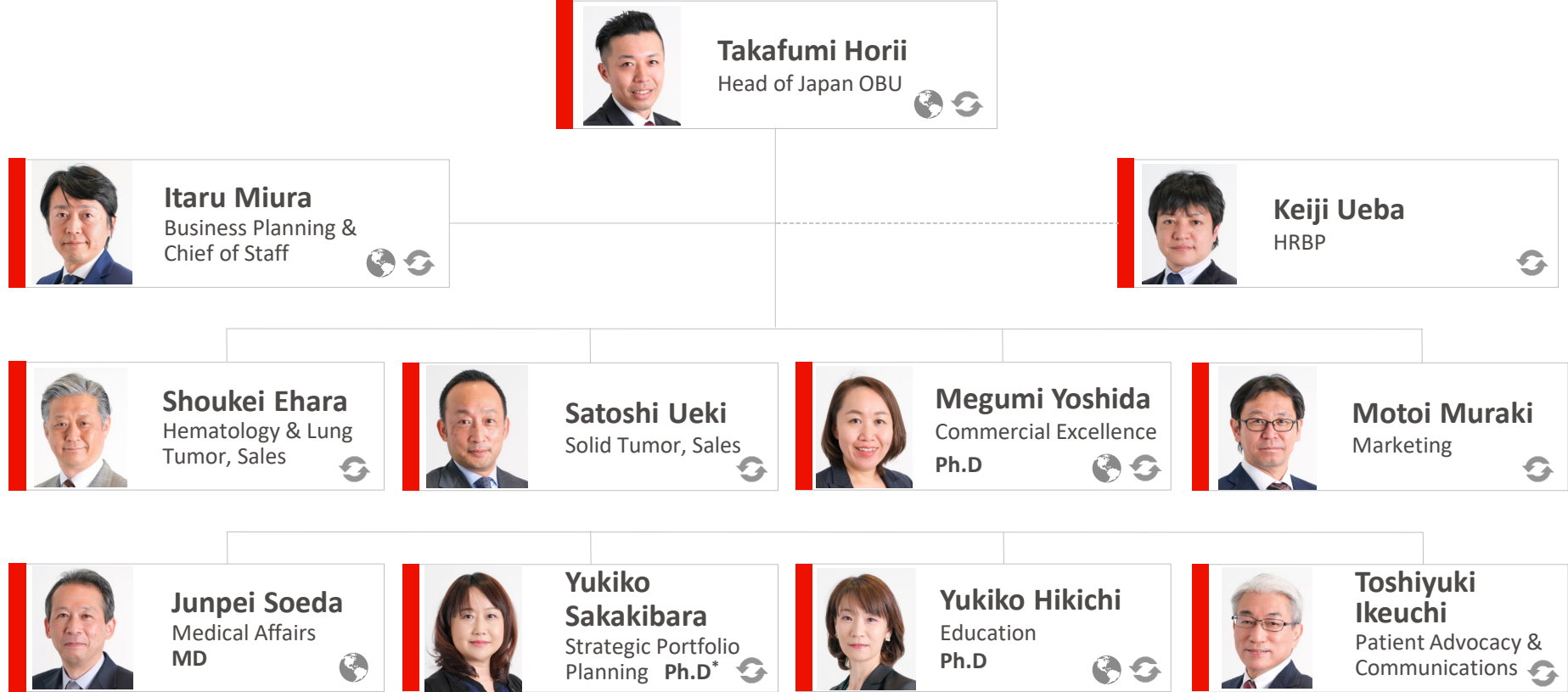
Takeda oncology is structured for agility in order to encourage innovation and market dynamism, our leaders have proven experience to drive future growth



1. DIVERSE LEADERSHIP TEAM



Our experienced and specialized leadership team is selected and supported to shepherd future growth



International experience



Experience in multiple functions/companies

Masahiro Fujimaki
Distribution & Regional Access

Keiji Iwashita
Market Access & Public Affairs

Iwamoto Kenichi
Regulatory Affairs

Yukari Nishikata
OTAU Japan & Asia

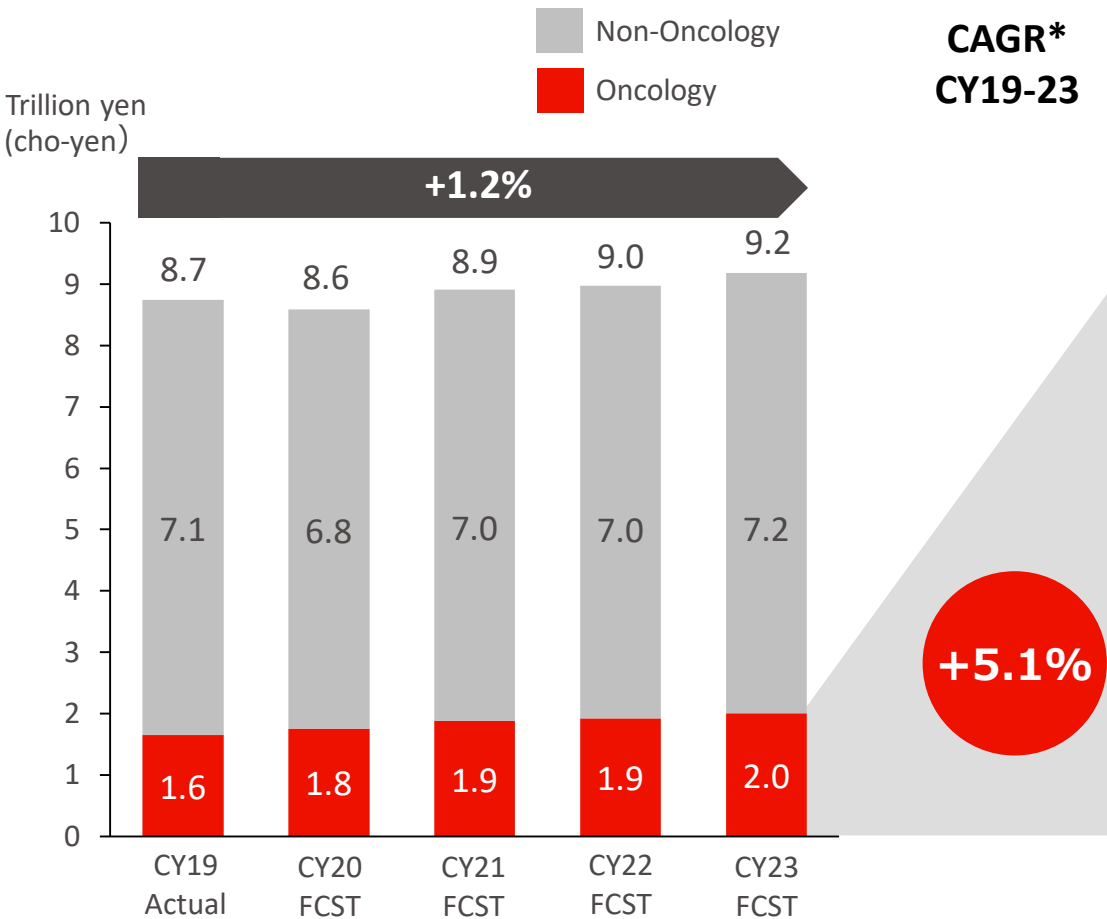
Futoshi Yabuhana
IT & Digital BP

Ai Kokido
Ethics & Compliance

2. FUTURE GROWTH



While total Japan market is expected to be flat, oncology market is expected to +5%



JAPAN ONCOLOGY MARKET		
Cancer type	CY23 (oku-yen)	CAGR* (18-23)
Lymphoma	773	6.4%
Multiple myeloma	1,179	5.7%
Leukemia	1,146	9.2%
Lung	3,422	3.6%
Colorectal	1,285	-2.2%
Renal Cell Carcinoma	699	3.9%
Hepatocellular Carcinoma	295	11.0%
Gynecologic (e.g. Ovarian)	289	10.5%
Prostate	1,693	0.3%

(Reference)
JOBU related products

Product
Brentuximab vedotin
Ixazomib
Pevonedistat
Brigatinib Mobocertinib
Panitumumab
Cabozantinib
Cabozantinib
Niraparib
(Cabozantinib Niraparib)

source: Excerpt from Ethical drug data book, Fuji-Keizai; 2019

source: IQVIA Analytics Link Japan market by ATC code 20200819
Cancer Control and Information Service provided by National Cancer Center; 2019

*CAGR: Compound Annual Growth Rate

2. FUTURE GROWTH




Potential acceleration of future growth by providing patients with various treatment options by launching new products and adding new indications




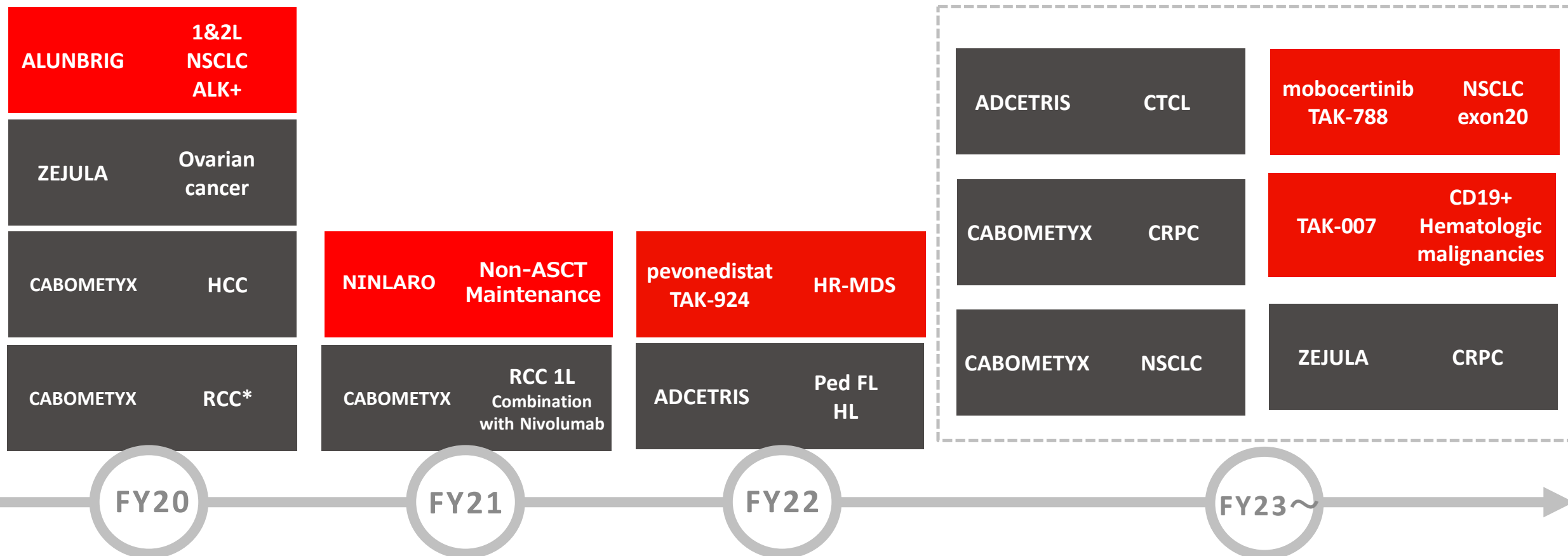
2. FUTURE GROWTH



Momentum in our diverse and robust pipelines contributing to unmet medical needs

 Approval and additional indication of global brand

 Approval and additional indication of Japan local brand



8 NSCLC: Non-Small Cell Lung Cancer, RCC: Renal Cell Carcinoma, HCC: Hepatocellular Carcinoma, Non-ASCT: Not Undergoing Autologous Stem Cell Transplantation, HR-MDS: Higher-Risk Myelodysplastic Syndromes, CTCL: Cutaneous T-cell Lymphoma, FL: Front Line, HL: Hodgkin Lymphoma, Ped: Pediatric, CRPC: Castration Resistant Prostate Cancer

Future indications after FY2021 are target approval dates and all timelines are approximate estimates as of February 25, 2021

*Approved in FY2019 (March 2020)

3. OUR CAPABILITY



Track record on Clinical Development & Medical Affairs



Innovative approach for providing cutting-edge treatments faster

- Bundle approach for multiple line application at the same time by leveraging global data
- Highly-innovative, unprecedented strategy characterized by complementary clinical data package
- Acceleration of the development from original development timeline



Successful Partnership with key stakeholders

- Takeda-government-academia collaboration achieved;
 - New indication with investigator initiated study
 - Companion Diagnostics (CDx) development
 - POC study with investigators
- Talent exchange with key government offices*
- Strategic partnership agreement with National Cancer Center since 2015

3. OUR CAPABILITY



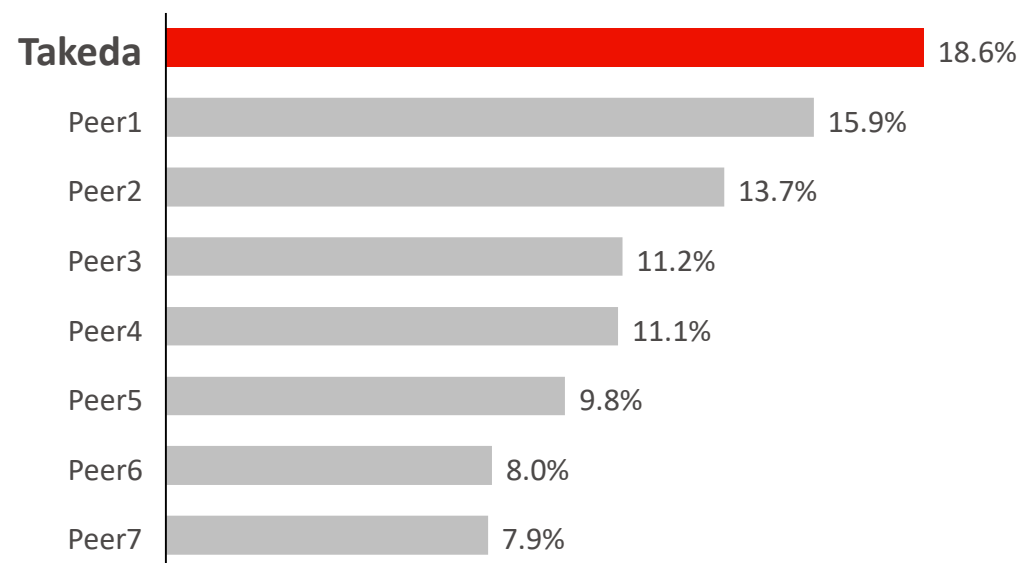
Commercial's reputation



Physicians' highest Reputation to MRs

MR Reputation ranking (corporate power)

Physicians market research (n=16,115)



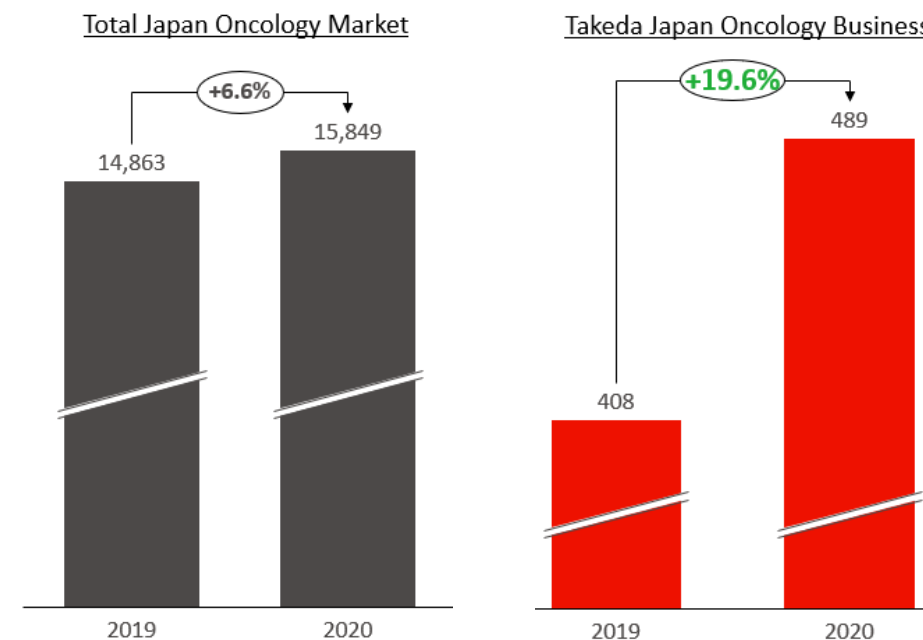
Source: Rep-i Aug 2020



Japan Oncology Business outperformed against overall Japan oncology market

Market growth comparison (CY20 vs CY19)

Revenue, Unit: Oku-yen



Source: IQVIA Market Prognosis, En-Cluster, NHI base

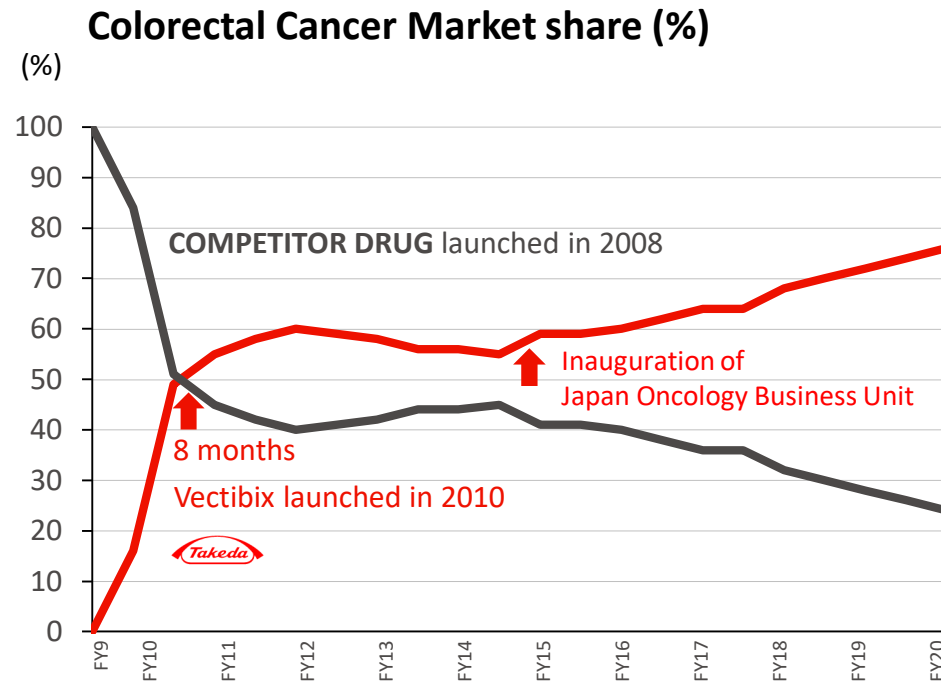
3. OUR CAPABILITY



Commercial's reputation

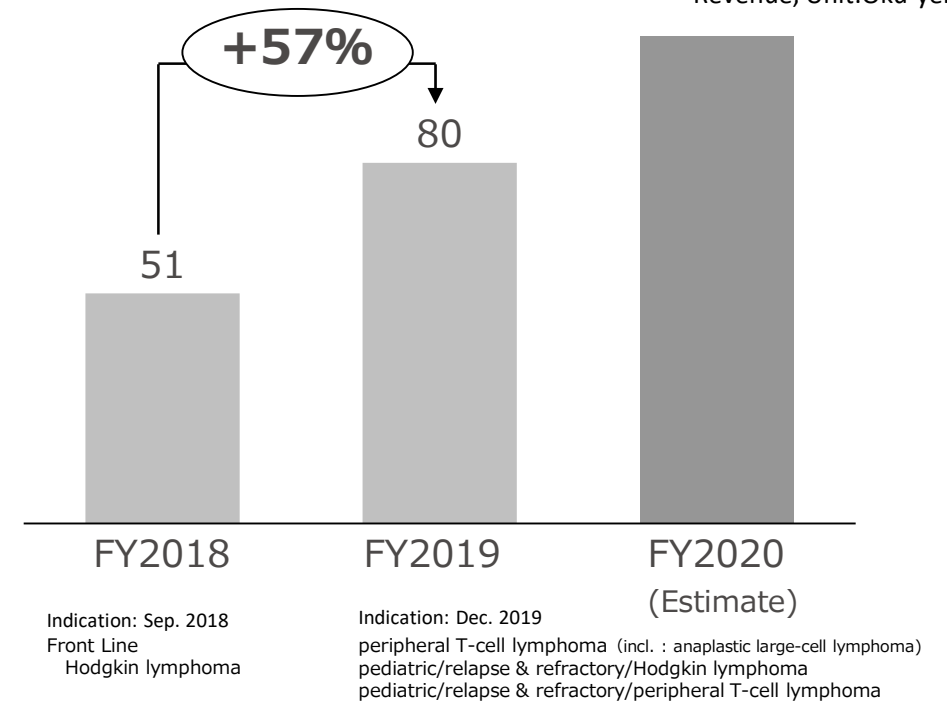


Track record of Vectibix in Japan



Sustainable growth of Adcetris in Japan

Revenue, Unit: Oku-yen



3. OUR CAPABILITY



Driving digital transformation

NURTURE DIGITAL TALENT



43

DIGITAL LEADS



78

IT PASSPORTS*
(as of January)

OMNICHANNEL STRATEGY



AI embedded
CRM system



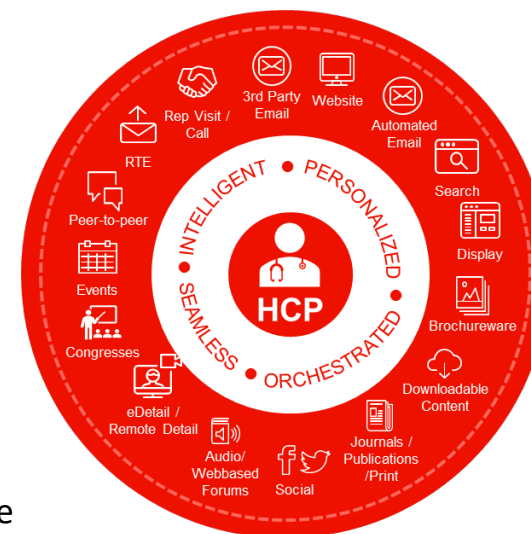
Safety Dashboard



Web Seminar



Electric Patient
Reported Outcome



Real World
Data/Evidence

3. OUR CAPABILITY



Transformation to a highly specialized organization for new products/indications, and a strategic focus of clinical research and talent resources

Human Resource Investment



Medical Affairs
Commercial*

FY2015

14
151



FY2020

42
379

Number of employees

Research from Japan



Clinical research
conducted/supported
by Medical Affairs (Japan)

6



21

Number of clinical researches

Strengthening of MR expertise



Sales
Organization

Geographic
Focus



**Therapeutic
Area Focus**

A VALUES-BASED AND R&D-DRIVEN BIOPHARMACEUTICAL LEADER



PURPOSE Better health for people, brighter future for the world

VISION Discover and deliver life-transforming treatments, guided by our commitment to patients, our people and the planet

VALUES We are guided by our values of Takeda-ism which incorporate **Integrity, Fairness, Honesty, and Perseverance**, with Integrity at the core. They are brought to life through actions based on **Patient-Trust-Reputation-Business**, in that order

IMPERATIVES			
PATIENT		PEOPLE	PLANET
<ul style="list-style-type: none">• Responsibly translate science into highly innovative, life-changing medicines and vaccines		<ul style="list-style-type: none">• Create an exceptional people experience	<ul style="list-style-type: none">• Protect our planet
UNLEASH THE POWER OF DATA AND DIGITAL			
<ul style="list-style-type: none">• We strive to transform Takeda into the most trusted, data-driven, outcomes-based biopharmaceutical company			





Brigatinib



Kei Hiraoka, M.D., Ph.D., Medical Director

Japan Oncology Business Unit

February 25, 2021

Better Health, Brighter Future

Today's Topics

1. Disease Epidemiology Information

2. Overview and Mode of Action

3. Clinical Trials & Data

4. Product Positioning

ALK+ NSCLC: DISEASE, EPIDEMIOLOGY INFORMATION

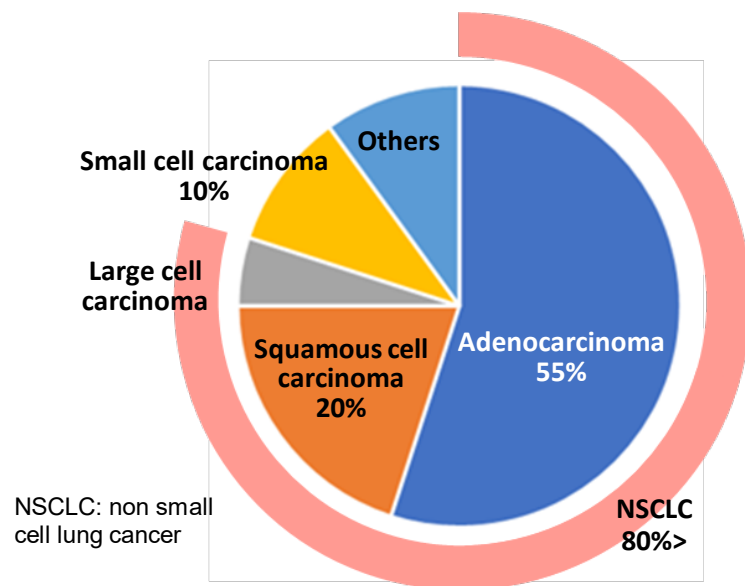


ALK+ NSCLC Prevalence

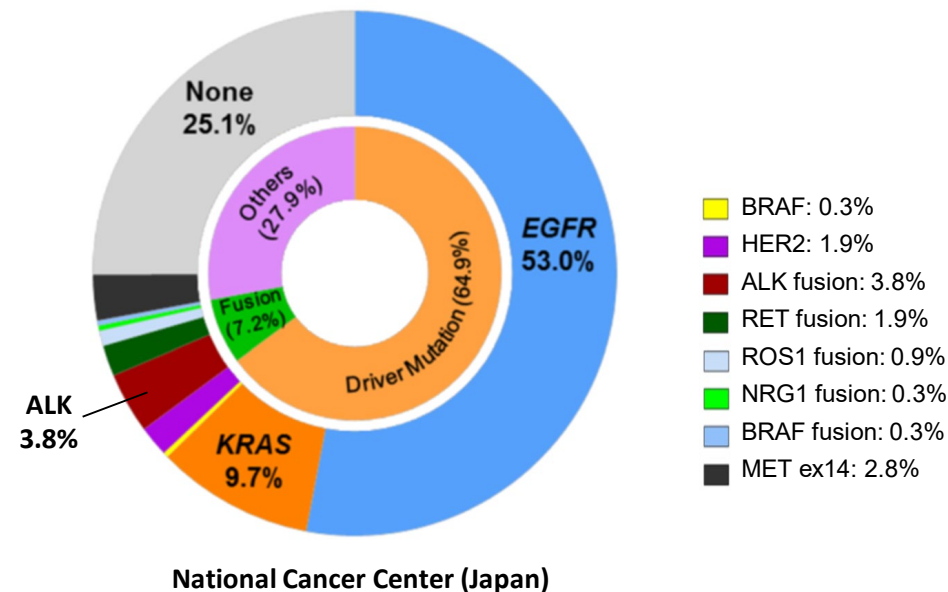


- Lung cancer is the leading cause of cancer death (**77,500**) and the number of cases is increasing (**125,100**) in Japan (2018).
- Non-small cell lung cancer (NSCLC) accounts for about 80-90% and lung adenocarcinoma accounts for about 55% of all lung cancers.
- Approximately 2-5% of patients with NSCLC have a rearrangement in the ALK gene, identified specifically for adenocarcinoma.

Lung Cancer

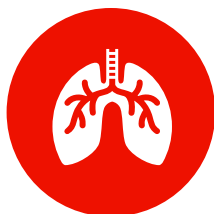


Lung Adenocarcinoma



National Cancer Center (Japan)

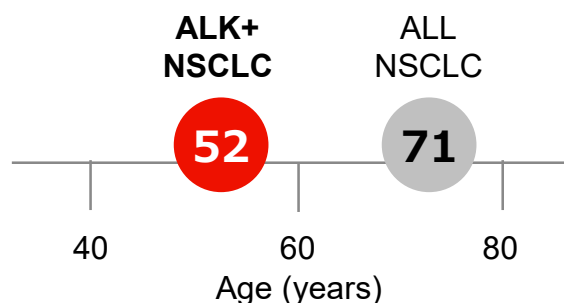
ALK+ NSCLC Disease Overview



- ALK+ NSCLC is a unique subset of lung cancer caused by a mutation in the anaplastic lymphoma kinase (ALK) gene.
- Histologically, adenocarcinoma is predominant. ALK-translocation is extremely rare in other histological types.
- ALK+ NSCLC on average affects younger people (median age at diagnosis is 52) and is not associated with a history of smoking.

PATIENT CHARACTERISTICS

There are no apparent racial differences, unlike in EGFR gene mutations

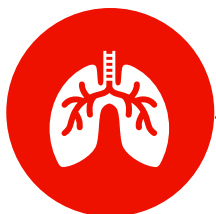


Patients with ALK+ NSCLC are commonly still of **working age and contributing to society**

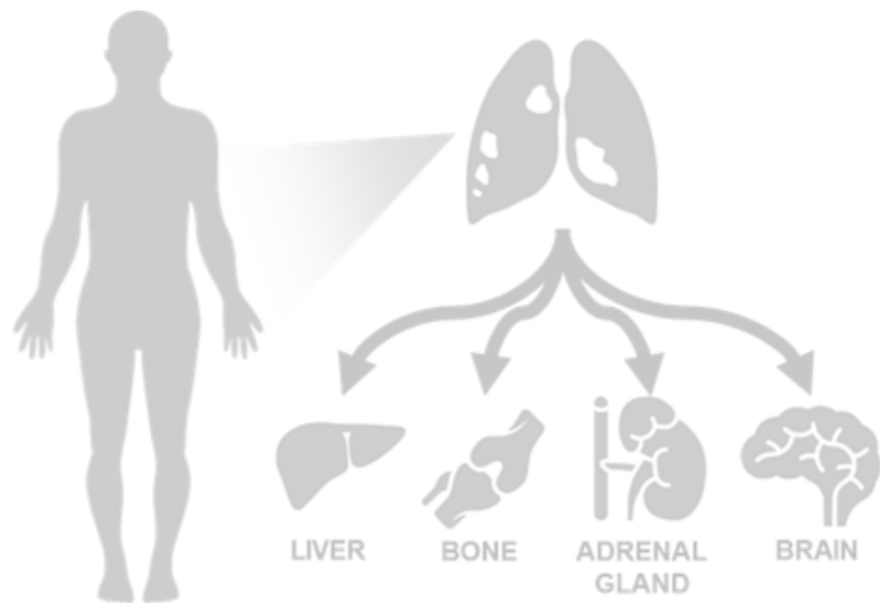


ALK+ NSCLC is not associated with smoking, as most patients have no or a light smoking history (<10 pack years)

ALK+ NSCLC: DISEASE, EPIDEMIOLOGY INFORMATION



ALK+ NSCLC is a debilitating and progressive disease that is associated with poor survival rates

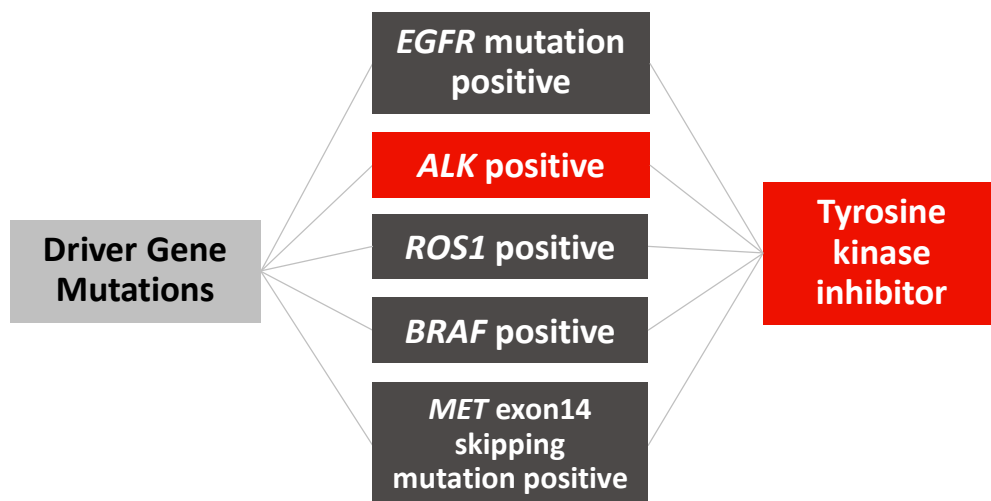


- ALK+ NSCLC patients face a **poor prognosis**, and almost all develop **tumor progression** and **eventually die** from their condition^{1,2}
- Most patients who experience **systemic progression** will do so at **multiple sites**³
- Stage IV ALK+ NSCLC patients have a **median overall survival rate** of approximately **6.8 years in the U.S.**, and this rate is **associated with the number of organs with tumors at diagnosis**⁴
- The most **common sites** of NSCLC **metastases** are the **brain, bone, liver, and adrenal glands**, with **ALK+ NSCLC patients at higher risk** of developing **brain metastases** than patients of other subtypes^{5,6}

ALK+ NSCLC: DISEASE, EPIDEMIOLOGY INFORMATION



Most diagnosed first-line ALK+ patients receive ALK inhibitors in Japan

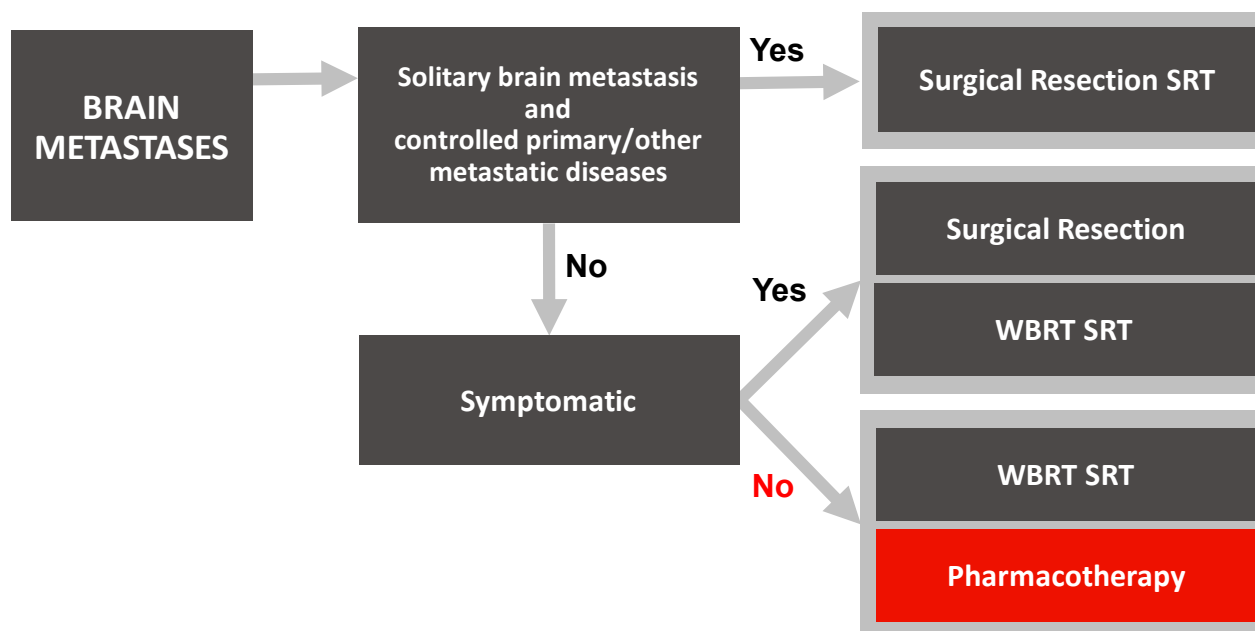


Approved agents in Japan, the United States and European Union that specifically target ALK rearrangements include:

- Crizotinib
- Ceritinib
- Alectinib
- Lorlatinib
- **Brigatinib**



Current management of brain metastasis in Japan



**SRT, stereotactic radiation therapy;
WBRT, whole-brain radiation therapy**

Pharmacotherapy is recommended for asymptomatic brain metastases in Japanese Clinical Guidelines of Lung Cancer based on EBM (evidence-based medicine)

Today's Topics

1. Disease Epidemiology Information

2. Overview and Mode of Action

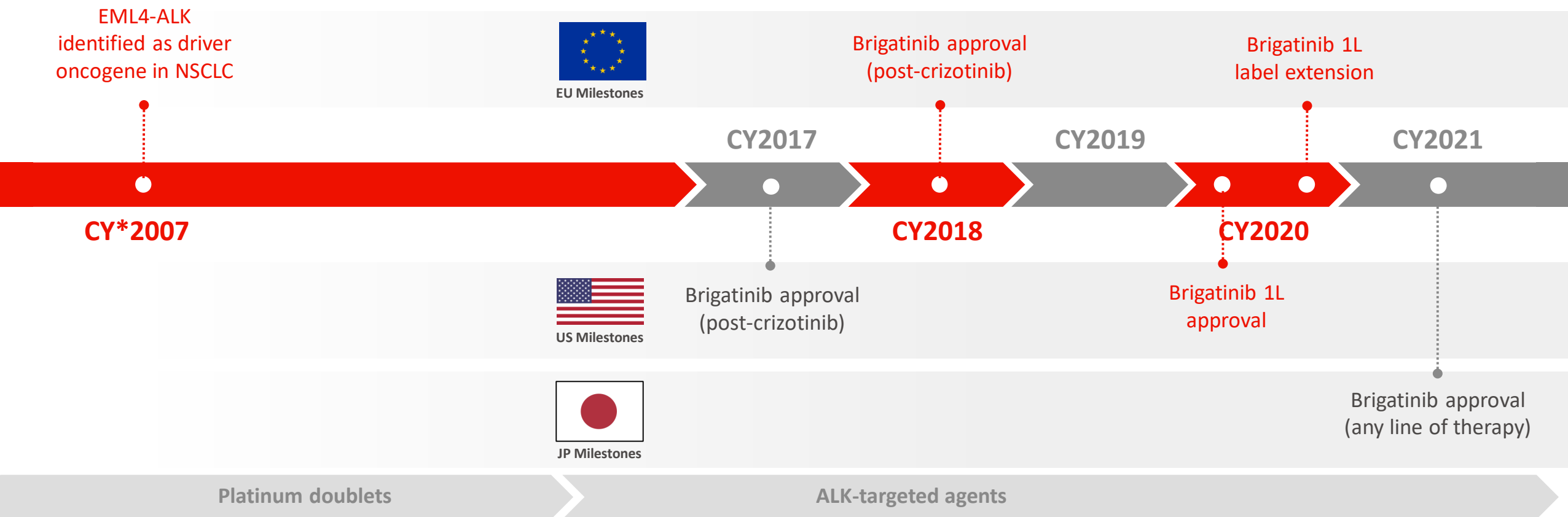
3. Clinical Trials & Data

4. Product Positioning

HISTORICAL OVERVIEW OF BRIGATINIB



In Japan, Brigatinib was approved for adult patients with ALK positive advanced/metastatic non-small cell lung cancer (NSCLC) for first- and second-line settings in Jan 2021





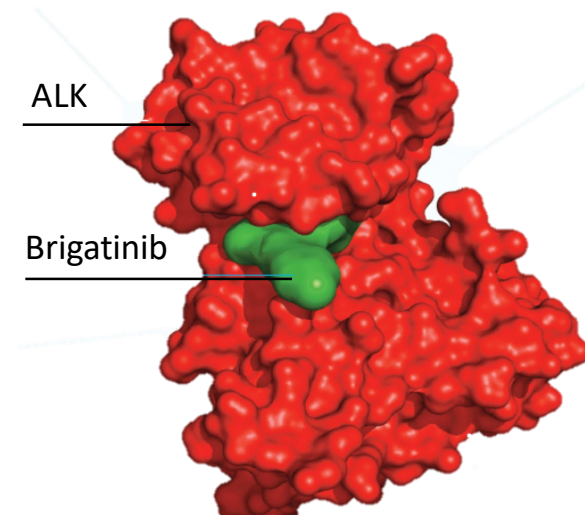
Brigatinib is a small-molecule inhibitor that was designed to target ALK molecular alterations in NSCLC¹⁻³

BRIGATINIB OVERVIEW

Mode of Action

- Brigatinib binds to the ATP-binding site of ALK^{1,2}
- Key structural features of brigatinib contribute to its **potency** and **selectivity**
- Brigatinib demonstrated greater potency than crizotinib in ALK inhibition in vitro and in vivo¹
- Brigatinib demonstrated greater CNS activity compared with crizotinib in an orthotopic mouse ALK+ brain tumor model¹

Brigatinib-ALK Complex



BRIGATINIB PRECLINICAL INHIBITORY ACTIVITY AGAINST ALK AND OTHER KINASES



In preclinical studies, brigatinib was found to be a potent and selective inhibitor when screened against 289 kinases

- Potent against native ALK, with an IC₅₀ of 0.6 nmol/L in a kinase assay
- Demonstrated activity against resistant ALK mutants, including L1196M, C1156Y, F1174L, and G1202R
- Overall selectivity, with only 8 other kinases (of > 250 tested) inhibited with IC₅₀ < 10 nmol/L
 - ROS1, FLT3, FER, FES, FAK/PTK2, PTK6, TSSK1, and CHEK2
- Similar results were observed in cellular assays

Brigatinib Preclinical Inhibitory Activity Against Native ALK, Resistant ALK Mutations, and Other Kinases

Kinase	Kinase Assay IC ₅₀ , nmol/L	Cellular Assay IC ₅₀ , nmol/L
ALK	0.6	14
ALK (C1156Y)	0.6	45
ALK (F1174L)	1.4	55
ALK (L1196M)	1.7	41
ALK (G1202R)	4.9	184
ALK (R1275Q)	6.6	ND
ROS1	1.9	18
ROS1 (L2026M)	—	17
ROS1 (G2032R)	—	1100
FLT3	2.1	158
FLT3 (D835Y)	1.5	211
EGFR	67	> 3000
EGFR (L858R)	1.5	397
EGFR (L858R/T790M)	29	489
IGF-1R	73	148
INSR	160	9331
MET	> 1000	ND

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1. Disease Epidemiology Information






2. Overview and Mode of Action

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CLINICAL TRIALS OF BRIGATINIB



	First Line	Second Line+
Japan Trials		Study 2001 (J-ALTA) Single arm Phase 2 study in Japanese patients with ALK+ NSCLC <i>Met primary endpoint Jun 2020</i> 
Global Trials		ALTA Randomized Phase 2 study in Crizotinib-Refractory ALK+ NSCLC <i>Met primary endpoint Jun 2016</i> 
	ALTA-1L Randomized Phase 3 study in ALK+ NSCLC naive to ALK inhibitors <i>Met primary endpoint Jul 2018</i> 	ALTA 2 Single-arm trial evaluating brigatinib in patients with advanced ALK+ NSCLC who have progressed on alectinib or ceritinib <i>Data expected Jul 2021</i> 
		ALTA 3 Randomized trial comparing the efficacy and safety of brigatinib versus alectinib in participants with ALK+ NSCLC who have progressed on crizotinib <i>Data expected Dec 2022</i> 

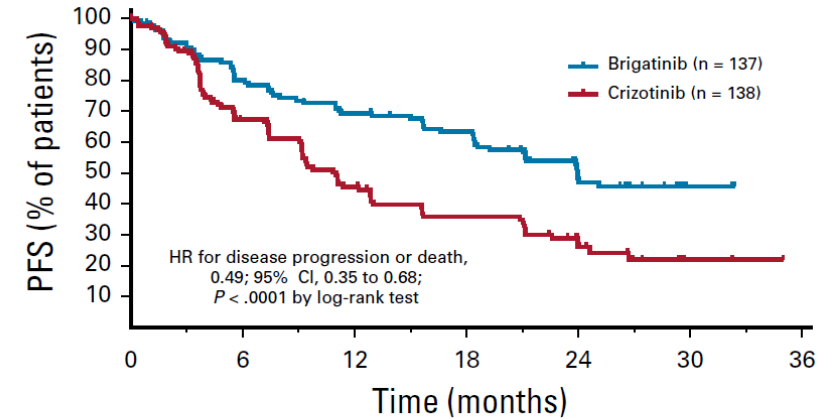
BRIGATINIB OVERVIEW

In the Phase 3 ALTA 1L trial, brigatinib demonstrated*:

- Superior long-term efficacy compared to crizotinib with a median PFS of 24.0 months (95% CI: 18.5–NE) versus 11.0 months (95% CI: 9.2–12.9) for crizotinib.

*The primary end point was PFS as assessed by blind independent review committee (BIRC).

PFS



No. at risk:

Brigatinib	137	97	84	75	39	3	0
Crizotinib	138	80	49	37	17	2	0

IRC-Assessed PFS	Median PFS (95% CI), months	HR (95% CI)	2-Year PFS Rate (95% CI), %
Brigatinib (n = 137)	24.0 (18.5-NR)	0.49 (0.35-0.68) $P < .0001$	48 (39-57)
Crizotinib (n = 138)	11.0 (9.2-12.9)		26 (18-35)



Brigatinib significantly improved PFS in patients with baseline brain metastases vs. crizotinib



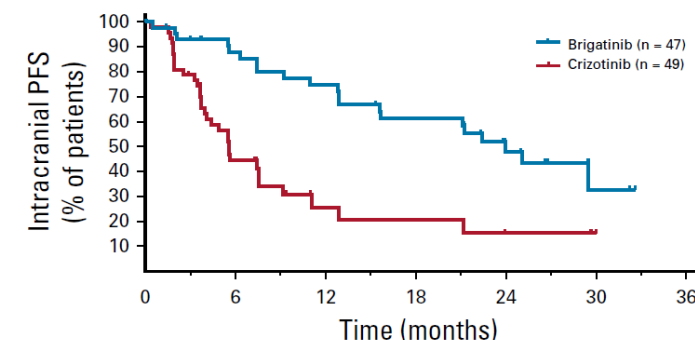
- The CNS is a known sanctuary site in advanced ALK+ NSCLC, with higher rates of brain metastases observed in patients with ALK+ NSCLC than in those with NSCLC with other driver mutations¹⁻⁵
- Treatment options for patients with brain metastases include surgical resection, radiotherapy (SRS or WBRT), and ALK TKIs¹

BRIGATINIB OVERVIEW

Intracranial PFS rate at 2 years by BIRC assessment in patients with baseline brain metastases was 48% with brigatinib and 15% with crizotinib⁶

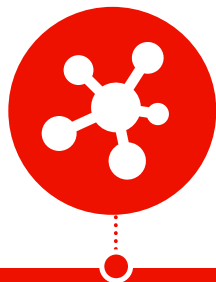
Intracranial PFS

BIRC-Assessed Intracranial PFS: Patients With Brain Metastases at Baseline (ALTA-1L study)



No. at risk:							
Brigatinib	47	34	29	22	12	3	0
Crizotinib	49	17	5	4	2	0	0

BIRC-Assessed PFS	Median PFS (95% CI), months	HR (95% CI)	2-Year PFS Rate (95% CI), %
Brigatinib (n = 47)	24.0 (12.9-NR)	0.31 (0.17-0.56) <i>P</i> < .0001	48 (30-63)
Crizotinib (n = 49)	5.6 (3.7-7.5)		15 (5-32)



- Dose modifications for the brigatinib arm were required by protocol for any grade 3/4 nonhematologic toxicity, including laboratory abnormalities
 - Protocol-mandated dose modifications for crizotinib were less stringent
 - Dose reductions in the brigatinib arm were mainly due to protocol-mandated laboratory abnormalities
- 12% of patients in the brigatinib arm and 9% of patients in the crizotinib arm discontinued due to AEs
- No treatment-related deaths occurred in either arm

TEAEs Leading to Dose Reduction, n (%)	Brigatinib (n = 136)	Crizotinib (n = 137)
≥ 1 TEAE	39 (28.7)	29 (21.2)
Increased blood CPK	14 (10.3)	2 (1.5)
Increased ALT	1 (0.7)	8 (5.8)
Increased AST	2 (1.5)	1 (0.7)
Increased lipase	7 (5.1)	1 (0.7)
Increased amylase	4 (2.9)	0
Nausea	1 (0.7)	6 (4.4)
Diarrhea	0	3 (2.2)
Decreased appetite	1 (0.7)	2 (1.5)
Vomiting	0	2 (1.5)
Peripheral edema	0	3 (2.2)
Pneumonitis	2 (1.5)	1 (0.7)
Hypertension	2 (1.5)	0
Pruritic rash	2 (1.5)	0

J-ALTA: single-arm, multicenter, phase 2, open-label study in Japanese patients

BRIGATINIB OVERVIEW

In the Phase 2 J-ALTA trial, brigatinib demonstrated*:

- Clinically meaningful efficacy, with IRC-assessed confirmed ORR of 31%, DCR of 79%, and median PFS of 7.3 months at the primary analysis in patients who had progressed on alectinib with or without prior crizotinib
- Brigatinib demonstrated intracranial objective responses (intracranial ORR, 25%) in alectinib-refractory patients with brain metastases

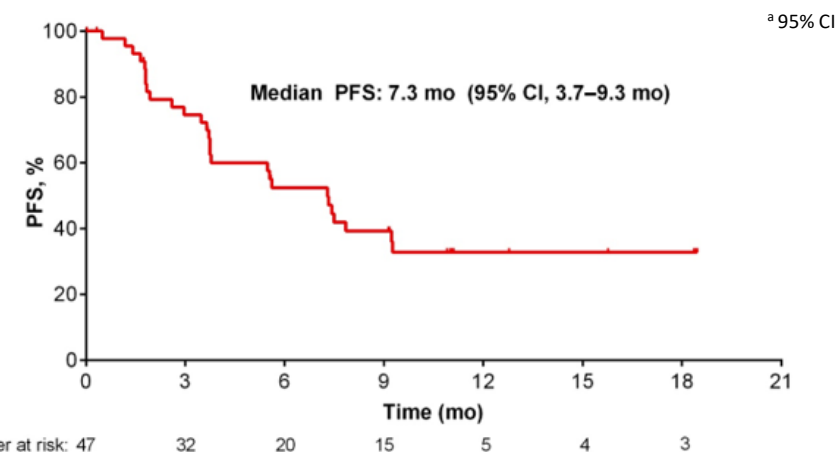
*The primary end point was confirmed ORR as assessed by independent review committee.

ORR

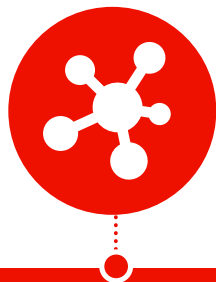
IRC-Assessed Systemic Objective Response

	Post-Alectinib ± Crizotinib (Main Cohort) n=47	All ALK TKI- Refractory Patients n=72
Confirmed ORR, % (n/N)	30 (14/47)	31 (20-43) ^a
Confirmed CR, %	0	0
Confirmed PR, %	30	31
DCR, % (95% CI)	79 (64-89)	74 (62-83)

PFS



J-ALTA: Treatment-Emergent Adverse Events (TEAEs) at Primary Analysis



- As of the primary analysis, one death due to TEAEs had been reported (respiratory failure due to disease progression; not drug related)
- Discontinuation of brigatinib due to TEAEs was reported in 4 (6%) of 72 patients
- Median dose intensity was 170 mg/day (range, 62–179 mg/day)
- ILD/pneumonitis
 - Six patients had at least one ILD/pneumonitis event Worst severity: Grade 1, n=1; grade 2, n=4; grade 3, n=1
 - Most ILD/pneumonitis cases improved after brigatinib discontinuation with or without steroid treatment

TEAEs (Any Grade) in >15% of All Patients or Grade ≥3 Reported in >2 Patients	Brigatinib 90 mg → 180 mg qd	
	Any Grade, %	Grade ≥3, %
Increased blood CPK ^a	75	18
Diarrhea	43	0
Hypertension	39	11
Nausea	38	0
Increased lipase ^b	33	14
Increased amylase ^b	31	4
Increased AST	29	1
Stomatitis	26	1
Headache	18	1
Increased ALT	18	0
Rash	17	1
Lung infection	8	4
Dyspnea	6	4



- Various investigator-initiated clinical trials are being conducted in Japan based on non-clinical data
- One study is currently ongoing and three studies are already approved for activation in 2021

Brigatinib basket study in patients with advanced solid tumors with ROS1 rearrangement (JapicCTI-194851)

Multicenter, open-label, single-arm, basket study of oral brigatinib treatment consisting of 3 cohorts:

- Cohort 1: crizotinib-naïve patients with ROS1-positive NSCLC
- Cohort 2: crizotinib-treated ROS1-positive NSCLC
- Cohort 3: patients with ROS1-positive solid tumors other than lung cancer

Brigatinib combined with Panitumumab for EGFR C797S NSCLC (Phase1/2 study)

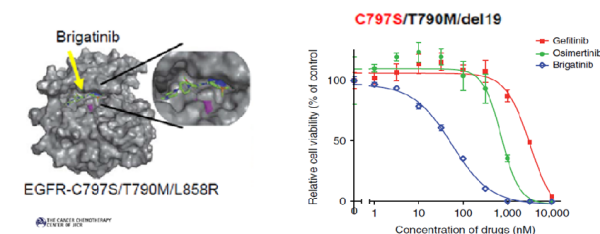


ARTICLE

Received 29 Sep 2016 | Accepted 30 Jan 2017 | Published 13 Mar 2017

Brigatinib combined with anti-EGFR antibody overcomes osimertinib resistance in EGFR-mutated non-small-cell lung cancer

Ken Uchibori^{1,2}, Naohiko Inase², Mitsugu Araki³, Mayumi Kamada⁴, Shigeo Sato¹, Yasushi Okuno^{3,4}, Naoya Fujita¹ & Ryohei Katayama¹



Today's Topics

1. Disease Epidemiology Information

2. Overview and Mode of Action

3. Clinical Trials & Data

4. Product Positioning



- High unmet need in Japan with ALK positive NSCLC patients
 - ALK+ NSCLC is a progressive disease that is associated with poor survival rates
- Brigatinib offers a new option with unique profile of selectivity and safety
 - In preclinical studies, brigatinib was found to be a potent and selective inhibitor
 - Dose reductions were mainly due to laboratory abnormalities
 - No treatment-related deaths occurred in ALTA-1L and J-ALTA
- Compelling efficacy in patients with brain metastases
 - Brigatinib significantly improved PFS in patients with baseline brain metastases vs. crizotinib
- Takeda is preparing to launch brigatinib in Japan (FY21 Q1)



Niraparib



Jumpei Soeda M.D., Ph.D. Head Japan Medical Affairs

Japan Oncology Business Unit

February 25, 2021

Better Health, Brighter Future

Today's Topics

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OVARIAN CANCER AT A GLANCE...



Japan epidemiology data

9th most common cause of cancer death in women¹
Majority diagnosed stage III–IV



Approximately **13,400** women will be diagnosed with ovarian cancer in 2020¹

- Median age at diagnosis: **63 years**¹

Approximately **4,700** deaths will occur due to ovarian cancer in 2020^{1,2}

- Median age at death: **70 years**^{1,2}



Ovarian cancer has the highest fatality-to-case ratio of all gynecologic cancers^{3,4}

CLINICAL PRESENTATION, WORKUP & DIAGNOSIS



Japan epidemiology data

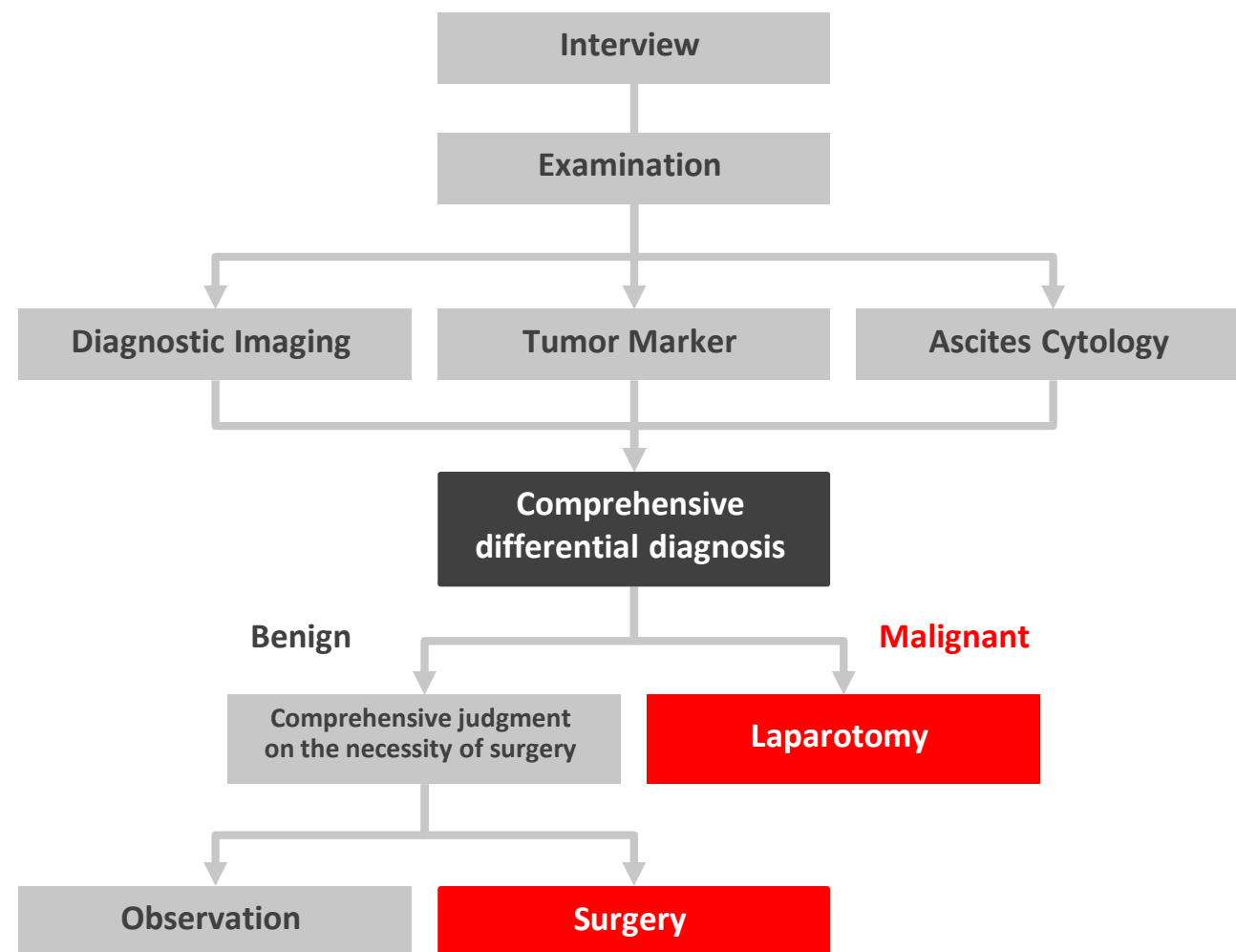
Screening: Not recommended

No screening tests have been validated^{1,2}

Early stages are often asymptomatic and difficult to detect

Most common symptoms

- Bloating
- Pelvic or abdominal pain or pressure
- Urinary symptoms (urgency or frequency)

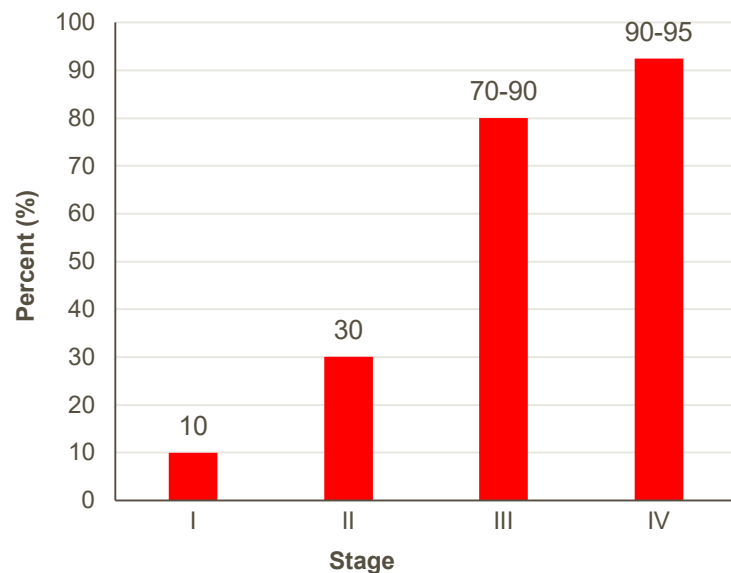


SURVIVAL, STAGE AT DIAGNOSIS AND RECURRENCE

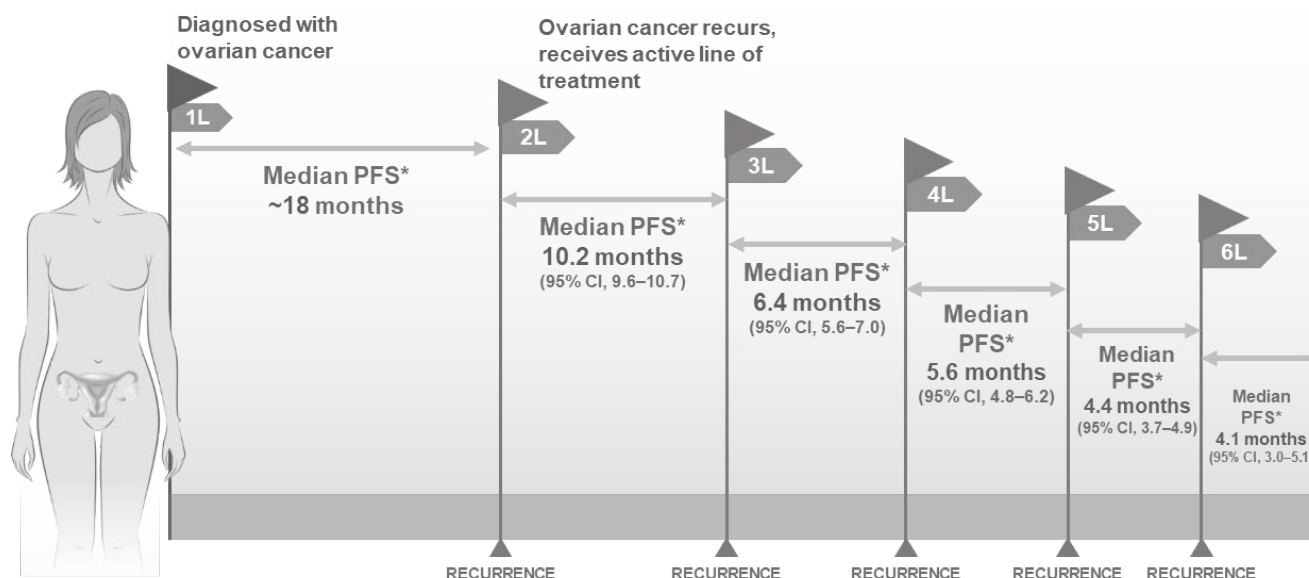


85% of women with advanced disease will recur after 1L therapy

Recurrence rates by stage at diagnosis¹

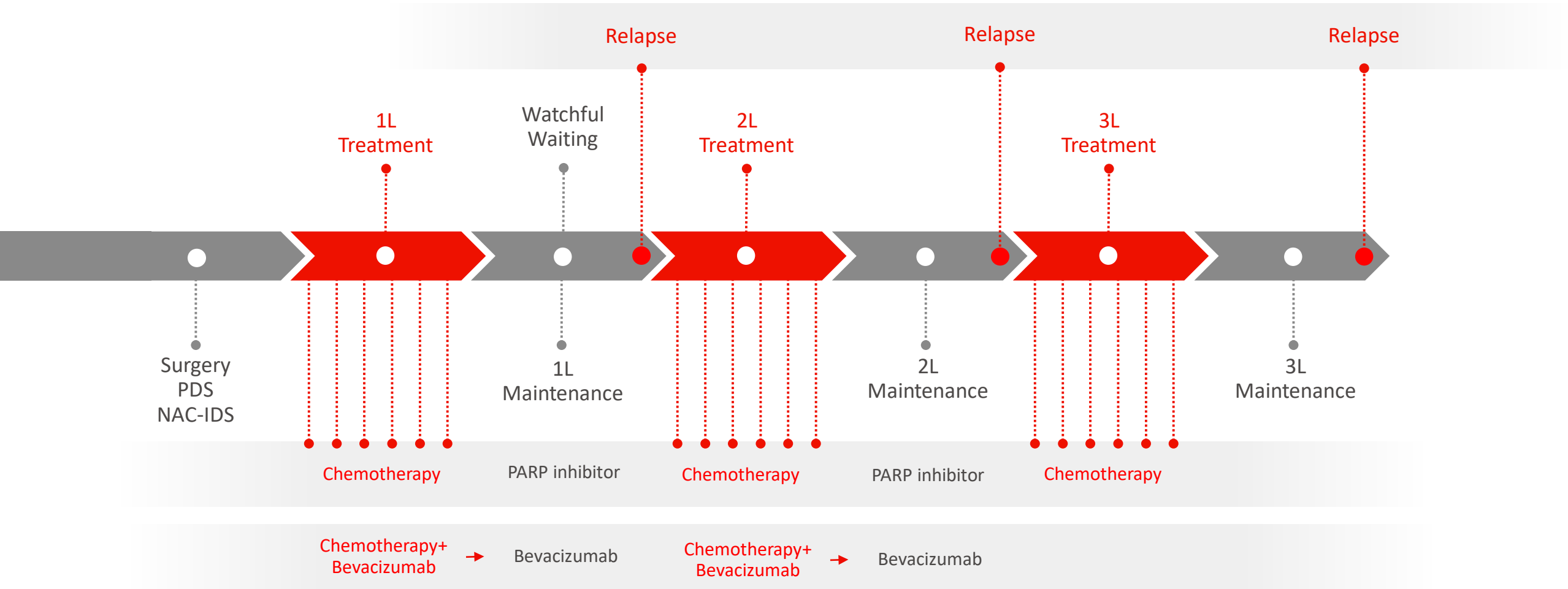


After each subsequent treatment, median PFS shortens without maintenance



Recurrent ovarian cancer is
treatable but not curable

OVARIAN CANCER TREATMENT



Today's Topics

1. Disease Epidemiology Information

2. Overview and Mode of Action

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4. Product Positioning

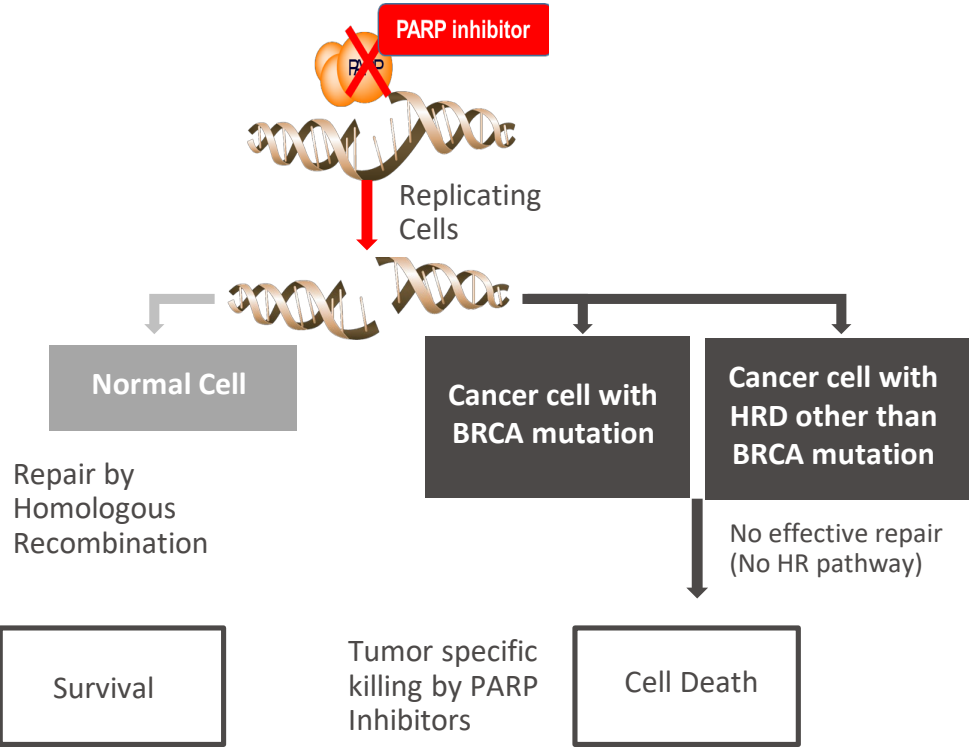


Approved in Japan on 25, September 2020 for 1L maintenance treatment in platinum-sensitive relapsed ovarian cancer, and a treatment of homologous recombination deficient platinum-sensitive relapsed ovarian cancer

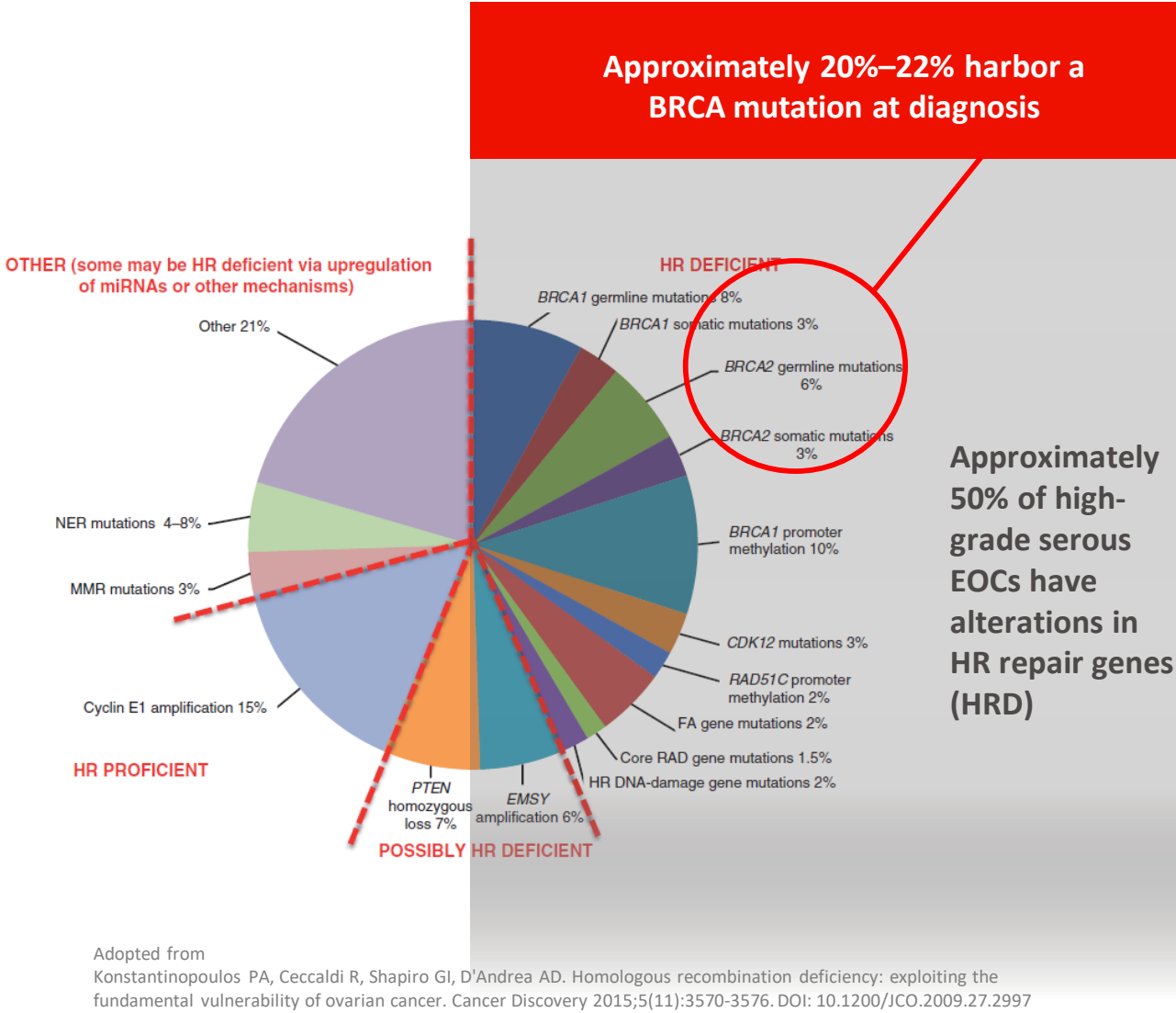
NIRAPARIB OVERVIEW

Mode of Action	<ul style="list-style-type: none">Niraparib is highly selective PARP1/2 inhibitor to selectively kill a subset of cancer cells with deficiencies in DNA repair pathways.
Indications	<ul style="list-style-type: none">1L maintenance treatment in platinum-sensitive ovarian cancerMaintenance treatment in platinum-sensitive recurrent ovarian cancerTreatment of homologous recombination deficient platinum-sensitive relapsed ovarian cancer
Dosage and administration	<ul style="list-style-type: none">Once a day orallyBody weight and platelet count adjusted

MECHANISM OF ACTIONS: EFFICACY BEYOND BRCA MUTATION



Modified from
Cancer Res Treat. 2012;44(1):1-10



PARP INHIBITORS: NOT THE SAME



	Absorption	Distribution		Metabolism	Elimination
	F (%)	P _{app} (10 ⁻⁶ cm/s)	V _d /F (L)	Major enzyme	t _{1/2} (h)
Niraparib	73 ¹	12-18 ²	1,074 ¹	CE ¹	48-51 ¹
Olaparib	NA ³	46-4 ⁴	167 ⁵	CYP3A4 ⁵	11.9 ⁵
Rucaparib	36 ⁶	6-8 ⁷	113-262 ⁶	CYP2D6 ⁶	17-19 ⁶

Niraparib is characterised by:

- High tumour penetration – largest volume of distribution
- No relevant drug-drug interaction
- Once daily dosing with or without food¹

	Competitive binding to the NAD ⁺ site		
	Catalytic inhibition (IC ₅₀ nM)	Cytotoxicity (IC ₉₀ ÅµM)	PARP-trapping potency (relative to olaparib set as 1)
Olaparib	6	4.5	1
Rucaparib	21	3	1
Niraparib	60	2.3	~2
Talazoparib	4	0.04	~100

+

1. ZEJULA® Summary of Product Characteristics, Nov 2017; 2. TESARO Inc., Data on File; 3. CHMP Assessment Report: Lynparza (EMA/CHMP/789139/2014).

Available at: http://www.ema.europa.eu/docs/en_GB/document_library/EPAR_-_Public_assessment_report/human/003726/WC500180154.pdf. Accessed Jan 2018. 4. Clinical and biopharmaceutics review: Lynparza. Available at: https://www.accessdata.fda.gov/drugsatfda_docs/nda/2014/206162Orig1s000ClinPharmR.pdf. Accessed Jan 2018; 5. Lynparza Summary of Product Characteristics, July 2017; 6. Rubraca package leaflet, Dec 2016; 7. Durmus S, et al. Pharm Res 2015;32(1):37-46.

Zhang ZY, et al. Oral presentation at ISSX 2015, Oct 18-22, 2015, Orlando, USA. Murai J, et al. Mol Cancer Ther 2014;13(2):433-443.

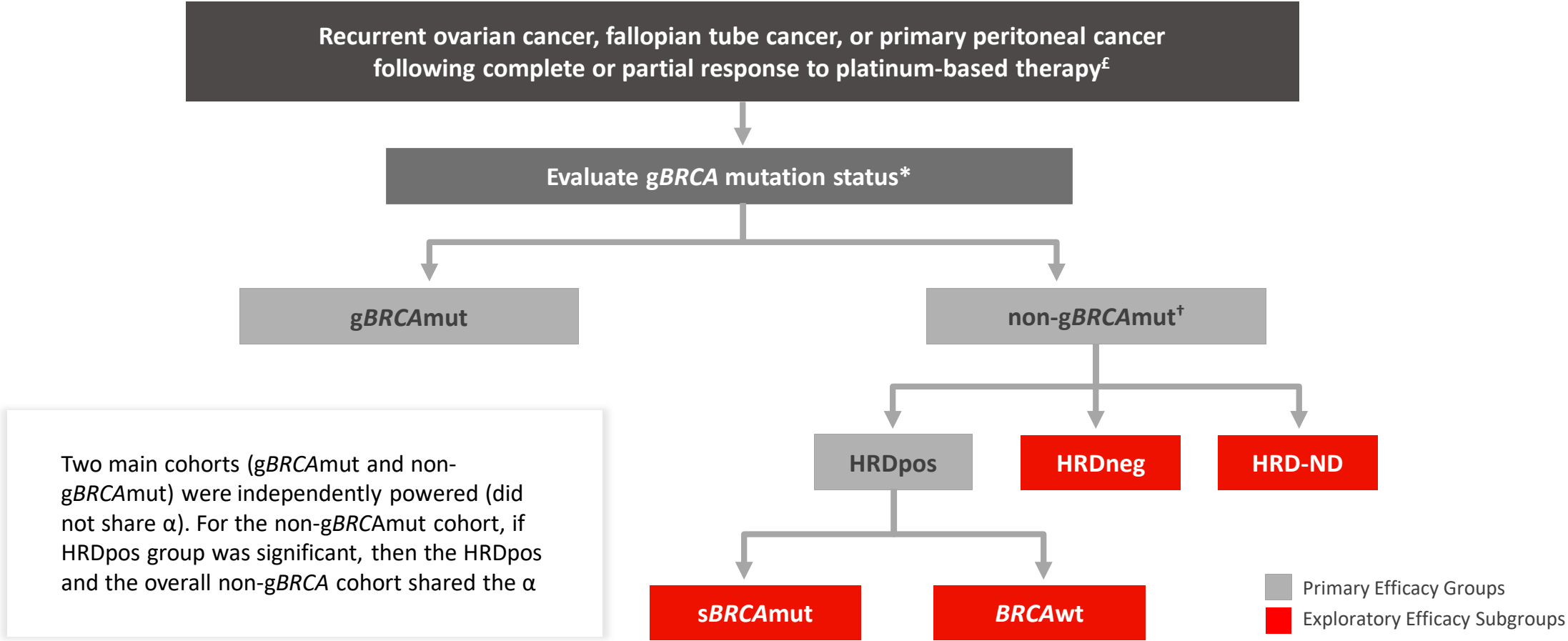
Today's Topics

1. Disease Epidemiology Information

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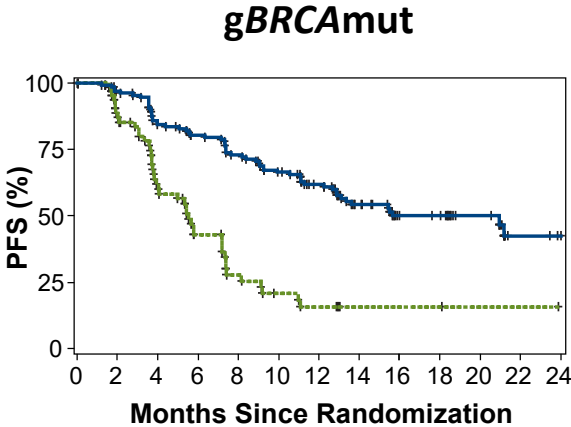


47 [£] Patients who had a complete or partial response to penultimate platinum-based therapy lasting ≥ 6 months ; *gBRCA mutation status defined by BRACAnalysis[®] (Myriad Genetics); [†]in the non-gBRCAmut cohort, tumors were retrospectively defined as HRD by the myChoice[®] HRD test (Myriad Genetics). HRD=homologous recombination deficiency; HRDpos=HRD positive; HRDneg=HRD negative; HRD-ND=HRD status not determined; sBRCAmut=somatic BRCA mutation; wt=wild-type. Mirza MR et al. N Engl J Med. 2016;375:2154-2164.

NIRAPARIB SIGNIFICANTLY IMPROVED PFS FOR ALL PATIENT POPULATIONS



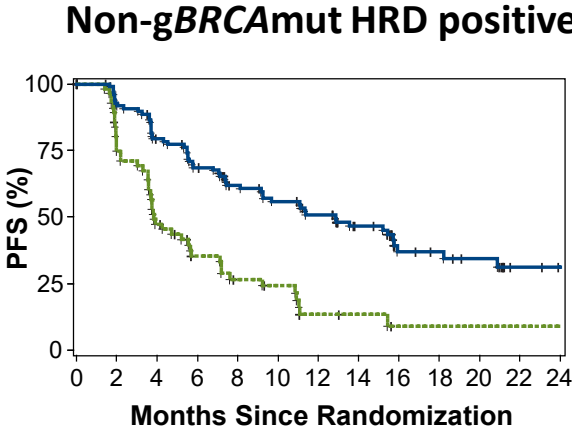
PRIMARY EFFICACY POPULATIONS



HR=0.27 $p<0.0001$

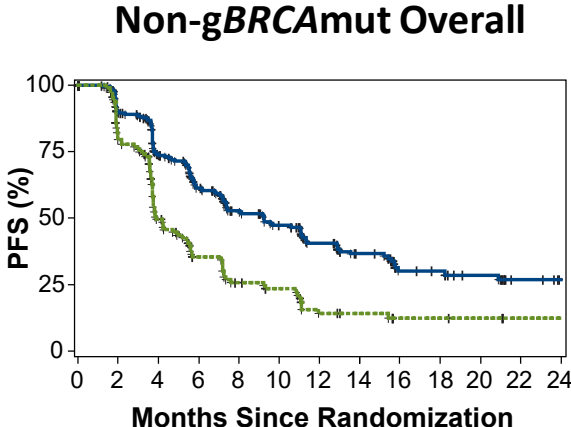
Median PFS
(months)

Niraparib:	21.0
Placebo:	5.5



HR=0.38 $p<0.0001$

Niraparib:	12.9
Placebo:	3.8



HR=0.45 $p<0.0001$

Niraparib:	9.3
Placebo:	3.9

SUMMARY OF ADVERSE EVENTS IN NOVA



Reported — n (%)	Niraparib (n=367)	Placebo (n=179)
Any TEAE	367 (100.0)	171 (95.5)
Any related TEAE	358 (97.5)	127 (70.9)
Any CTCAE grade ≥3 TEAE	272 (74.1)	41 (22.9)
Any related CTCAE grade ≥3 TEAE	237 (64.6)	8 (4.5)
Any serious TEAE	110 (30.0)	27 (15.1)
Any related serious TEAE	62 (16.9)	2 (1.1)
Any TEAE leading to treatment interruption	253 (68.9)	9 (5.0)
Any TEAE leading to dose reduction	244 (66.5)	26 (14.5)
Any TEAE leading to treatment discontinuation	54 (14.7)	4 (2.2)

— Less than 15% of patients discontinued niraparib due to TEAEs

NOVA Treatment-Emergent Adverse Events:

Grade 3/4 Occurring in ≥5% of Patients

(as presented in Mirza MR et al. N Engl J Med)

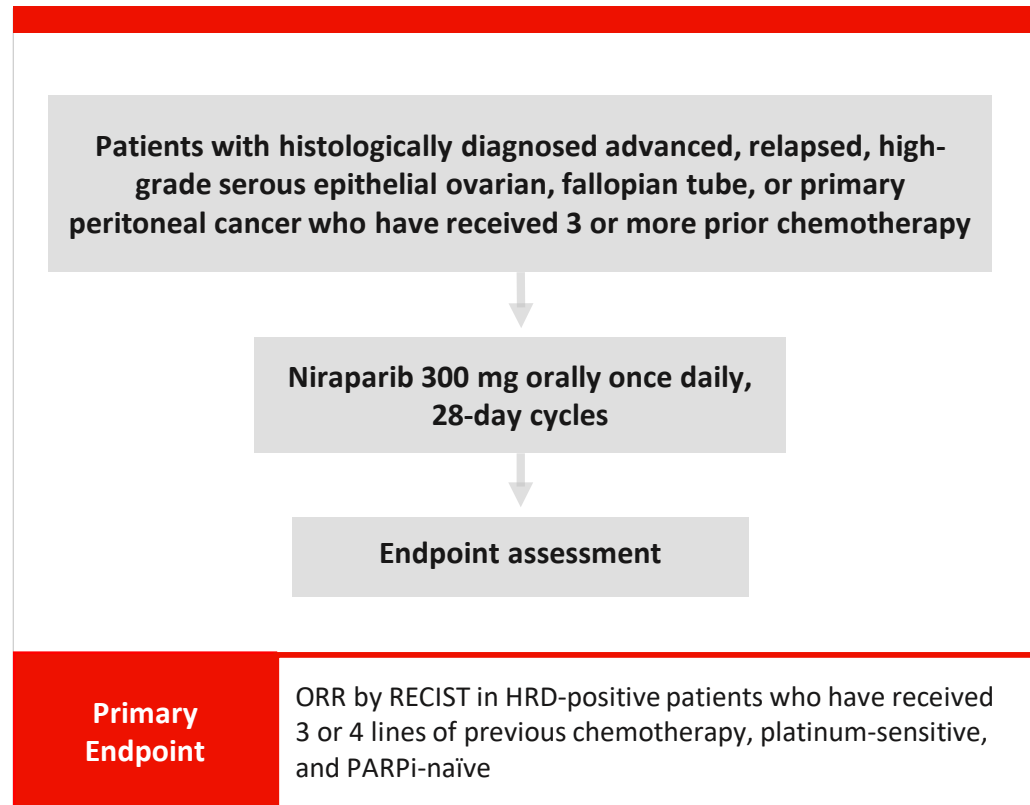
Events— n (%)	Niraparib (n=367)	Placebo (n=179)
Thrombocytopenia ^a	124 (33.8)	1 (0.6)
Anemia ^b	93 (25.3)	0
Neutropenia ^c	72 (19.6)	3(1.7)
Fatigue ^d	30 (8.2)	1 (0.6)
Hypertension	30 (8.2)	4(2.2)

MDS/AML occurred in 1.4% of patients who received niraparib and 1.1% of patients who received placebo

QUADRA: STUDY DESIGN AND PATIENT ELIGIBILITY

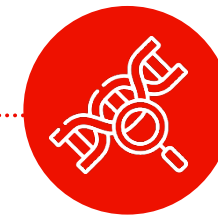


Evaluate the efficacy of niraparib in a broad, late-line recurrent ovarian cancer population



Key Eligibility Criteria

- Serous epithelial ovarian, fallopian tube or primary peritoneal cancer
- Tumor HRD testing and blood gBRCAmut status testing
- Completed >3 prior chemotherapy regimens
- Following enrollment of 292 patients, study amendment:
 - Limited to 3 or 4 previous chemotherapy regimens
 - Patients must have experienced a response lasting at least 6 months to first line platinum-based therapy



QUADRA MET ITS PRIMARY ENDPOINT WITH AN ORR OF 28%



(p = 0.0005) in platinum-sensitive, HRD-positive, PARPi-naïve patients

Response Rate in the Primary Endpoint Population (n=47)		
ORR%	28%	<ul style="list-style-type: none">• Patients in the primary outcome group had received three or four prior anti-cancer therapies• They were also platinum-sensitive to the last platinum therapy• All were PARPi-naïve• This population was chosen as the primary endpoint population following the NOVA study results that demonstrated niraparib activity beyond the gBRCA^{mut} cohort
95% Confidence Interval	15.6 – 42.6	
*One-Sided P Value	P = 0.00053	

Additional assessments in primary endpoint population

- Median PFS 5.5 months
- Median Duration of Response 9.2 months



* The p value reflects the very high likelihood that the true response rate actually falls between 15.6 and 42.6 months. Because this is an open label trial without a comparator arm, we cannot use this statistical analysis to infer that this is better/worse than other treatment regimens. Source: Moore et al, *Lancet Oncol* 2019.

THE OCCURRENCE OF TREATMENT-EMERGENT ADVERSE EVENTS IN QUADRA WAS CONSISTENT WITH THE PRIOR CLINICAL EXPERIENCE



Most common all causality AEs ≥30% in the each arm was:	N, (%)		
	Grade 1-2	Grade 3	Grade 4
Any drug-related treatment-emergent adverse event	416 (90)	257 (56)	93 (20)
Nausea	261 (56)	20 (4)	0
Fatigue	185 (40)	20 (4)	1 (<1)
Anaemia	176 (38)	112 (24)	1 (<1)
Vomiting	139 (30)	19 (4)	0
Thrombocytopenia	136 (29)	76 (16)	58 (13)
Decreased platelet count*	91 (20)	35 (8)	22 (5)
Decreased appetite	85 (18)	4 (1)	0
Constipation	76 (16)	5 (1)	0
Insomnia	55 (12)	3 (1)	0
Headache	52 (11)	1 (<1)	0
Decreased white blood cell count	48 (10)	17 (4)	2 (<1)

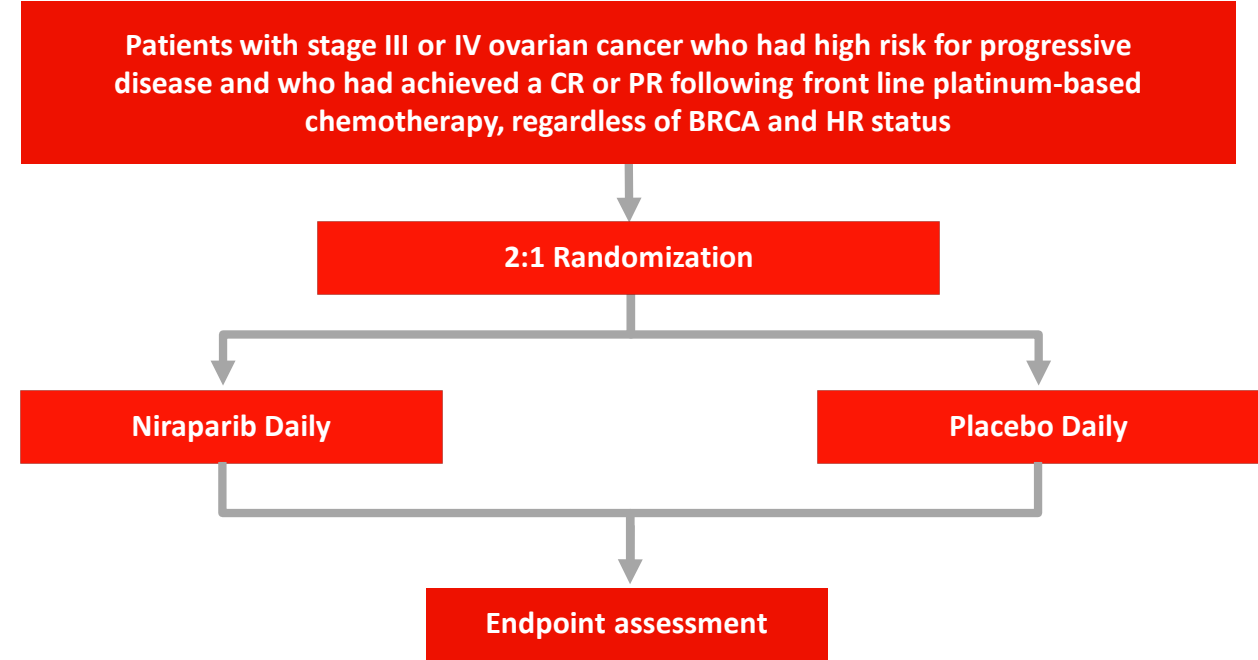
KEY TAKEAWAYS

- TEAEs Grade 3 in 56% of Patients (Safety Population, N=463)
- TEAEs, including Grade ≥3, were consistent with prior clinical experience
- Percentage of patients who experienced a TEAE resulting in:
 - Dose interruption (62%)
 - Dose reduction (47%)
 - Study withdrawal (21%)
- Nine patients (1.9%) experienced a TEAE which led to death, 1 of which was considered related to study treatment

PRIMA TRIAL DESIGN



Once-daily oral maintenance therapy evaluated in patients with newly diagnosed advanced ovarian cancer



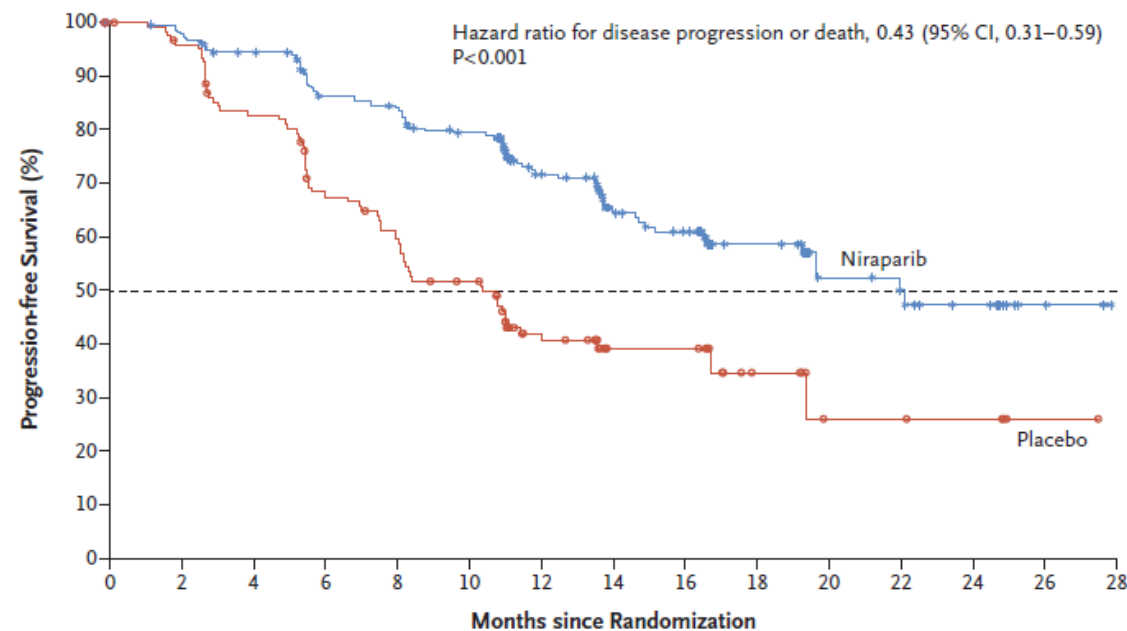
Primary Endpoint	Hierarchical Testing for PFS (radiologic, central review) <ul style="list-style-type: none">• PFS in HR-deficient population• PFS in ITT population
Key Secondary Endpoints	<ul style="list-style-type: none">• Overall Survival• Safety & Tolerability• Patient Reported Outcomes (FOSI, EQ-5D-5L, EORTC-QLQ-30 & -OV28)• PFS2 · Time to CA-125 Progression
Exploratory	<ul style="list-style-type: none">• Population PK• PK parameters for niraparib and major metabolite• HR Diagnostic Test

The PRIMA study protocol was modified to prospectively investigate a starting dose of either 300 mg or 200 mg of niraparib (or placebo) based on baseline body weight and platelet counts (individualized starting dose).

PRIMARY ENDPOINT: PFS IN THE HR-DEFICIENT POPULATION



Niraparib significantly reduced the risk of progression or death by 57% in women in the PRIMA study with newly diagnosed HR-deficient advanced ovarian cancer



No. at Risk																
		0	2	4	6	8	10	12	14	16	18	20	22	24	26	28
		Niraparib	247	231	215	189	184	168	111	76	66	42	22	19	13	4
	Placebo	126	117	99	79	70	57	34	21	21	11	5	5	4	1	0

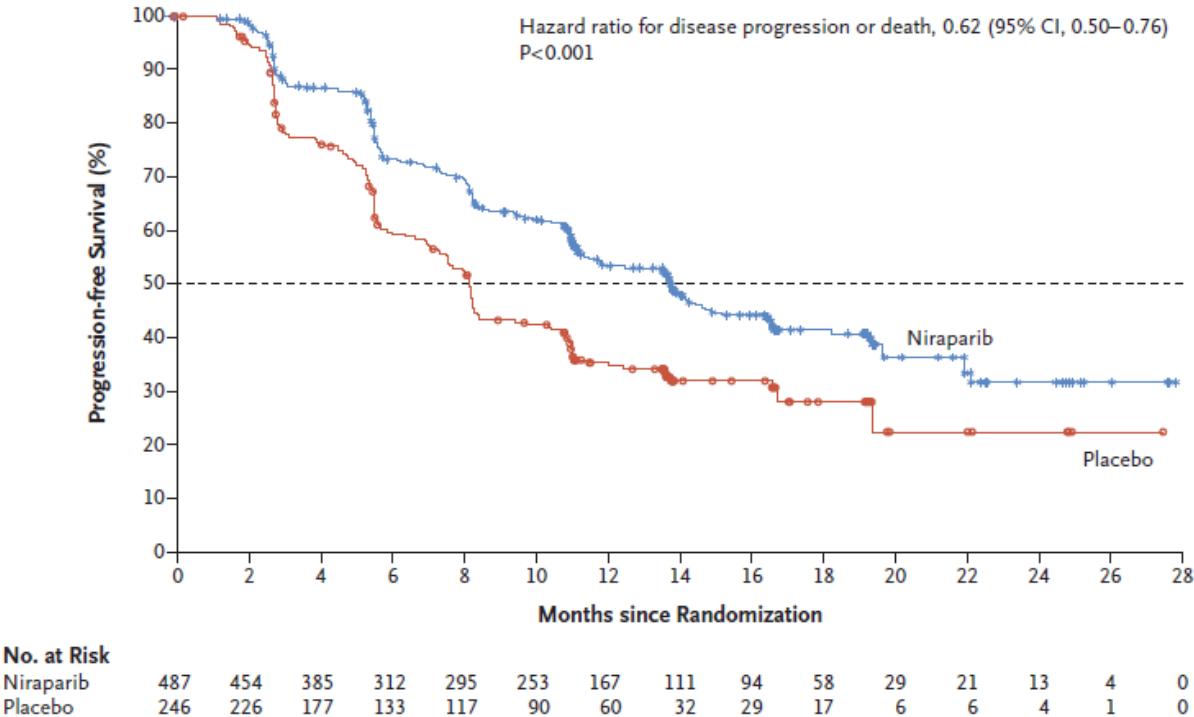
HR (95% CI) for disease progression or death: 0.43 (0.31–0.59; P<0.0001)

	Niraparib (n = 247)	Placebo (n = 126)
Median PFS		
Months (95% CI)	21.9 (19.3 – NE)	10.4 (8.1 – 12.1)
Patients without PD or death (%)		
6 months	86%	68%
12 months	72%	42%
18 months	59%	35%

PRIMARY ENDPOINT: PFS IN THE OVERALL POPULATION



Niraparib significantly reduced the risk of progression or death by 38% in women in the PRIMA study with newly diagnosed HR-deficient advanced ovarian cancer



HR (95% CI) for disease progression or death: 0.62 (0.50-0.76; P<0.001)

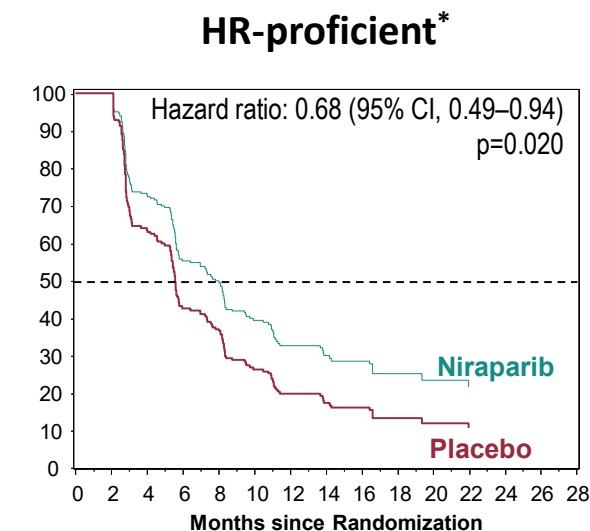
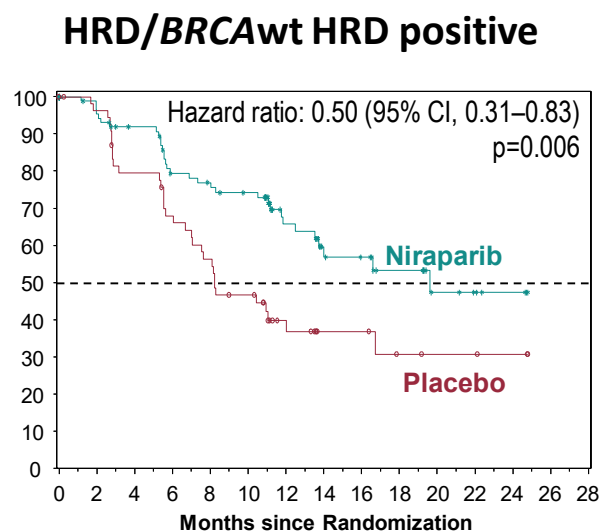
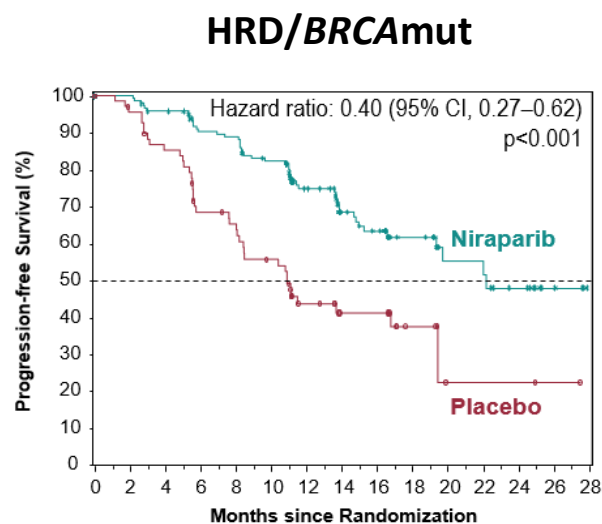
	Niraparib (n = 487)	Placebo (n = 246)
Median PFS		
Months (95% CI)	13.8 (11.5 – 14.9)	8.2 (7.3 – 8.5)
Patients without PD or death (%)		
6 months	73%	60%
12 months	53%	35%
18 months	42%	28%

PFS IN BIOMARKER SUBGROUPS



Niraparib reduced the risk of progression or death regardless of BRCA status and HR-deficiency or HR-proficiency

Homologous Recombination Deficient (HRd)



While HR testing was implemented in PRIMA, all subgroups benefited regardless of HRd status



Adverse Event, n (%)	Niraparib (n=484)	Placebo (n=244)
Any TEAE	478 (98.8)	224 (91.8)
Grade ≥3	341 (70.5)	46 (18.9)
Led to treatment discontinuation	58 (12.0)	6 (2.5)
Led to dose reduction	343 (70.9)	20 (8.2)
Led to dose interruption	385 (79.5)	44 (18.0)
TEAEs leading to death	2 (0.4)	1 (0.4)



TEAEs were consistent with the PARP inhibitor class



Dose interruptions were similar to those in the previous niraparib trials



Treatment discontinuation due to thrombocytopenia was 4.3%



TEAEs leading to death were determined to be non treatment-related

Today's Topics

1. Disease Epidemiology Information

2. Overview and Mode of Action

3. Clinical Trials & Data

4. Product Positioning



- NOVA shows significant clinical benefit in BRCAmt and non-BRCAmt population in maintenance therapy for platinum-sensitive recurrent ovarian cancer
- QUADRA shows clinical meaningful benefit in 4th line or later platinum sensitive HRD+ve population beyond BRCAmt
- PRIMA shows clinically meaningful benefit across all biomarker groups in 1L maintenance treatment in platinum-sensitive ovarian cancer
 - Presently, niraparib is the only PARP inhibitor with data showing benefit in HR-proficient ovarian cancer (exploratory analysis)



Cabozantinib



Akiko Kimura M.D., Ph.D., Senior Medical Director
Oncology Therapeutic Area Unit for Japan & Asia, Oncology Clinical Science
February 25, 2021

Better Health, Brighter Future

Today's Topics

1. Mode of Action & Product Information

2. Disease Epidemiology Information

3. Clinical Trials and Data, Life Cycle Management

4. Product Positioning

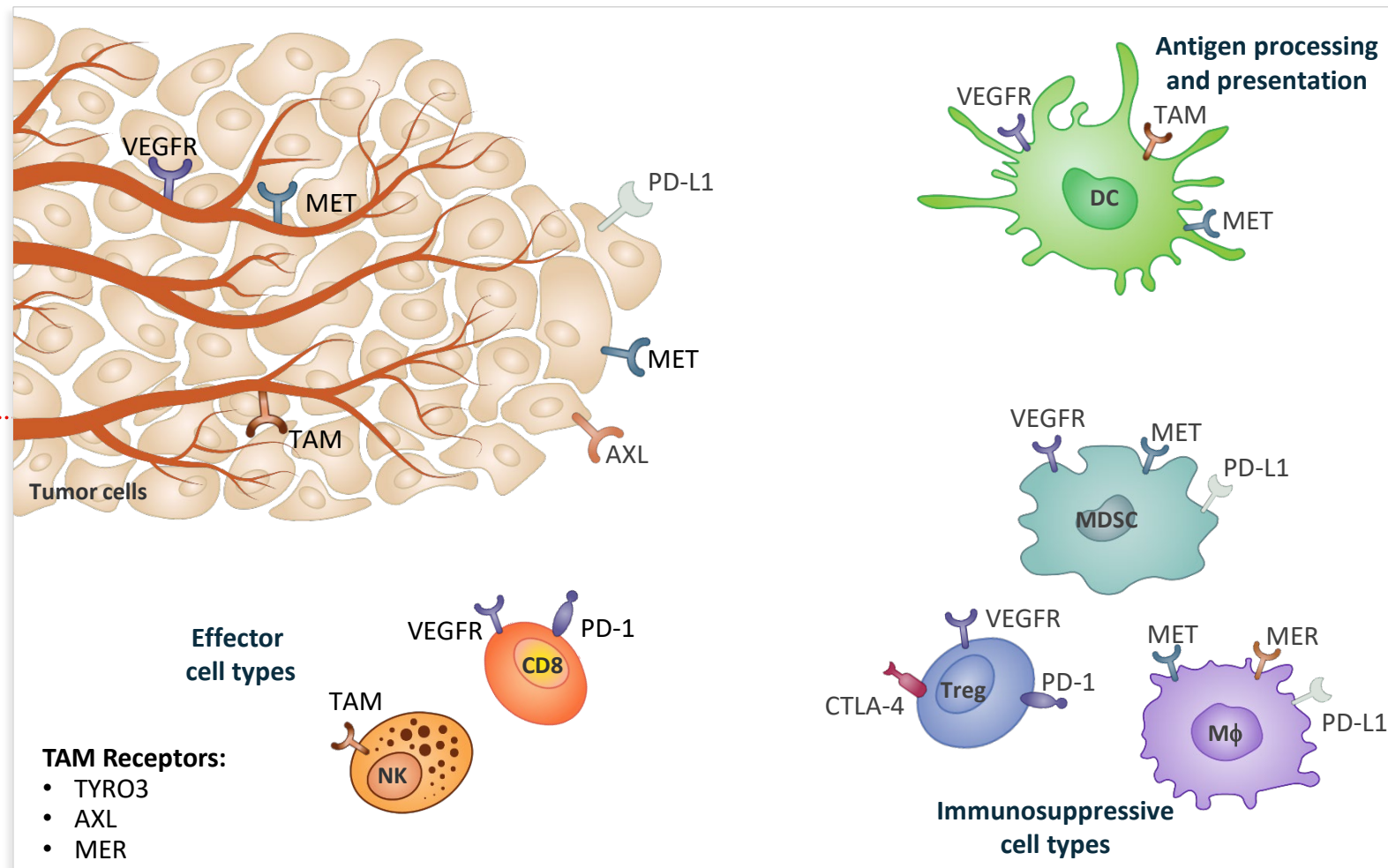
CABOZANTINIB TARGETS MULTIPLE RECEPTORS THAT CONTRIBUTE TO TUMOR CELL GROWTH, SURVIVAL AND METASTASIS



These receptors contribute to:

- Angiogenesis
- Proliferation
- Survival
- Migration and Invasion
- Resistance to VEGFR TKI

- Combining cabozantinib and an immune checkpoint inhibitor (such as nivolumab or atezolizumab) may promote a synergistic anti-tumor immune response

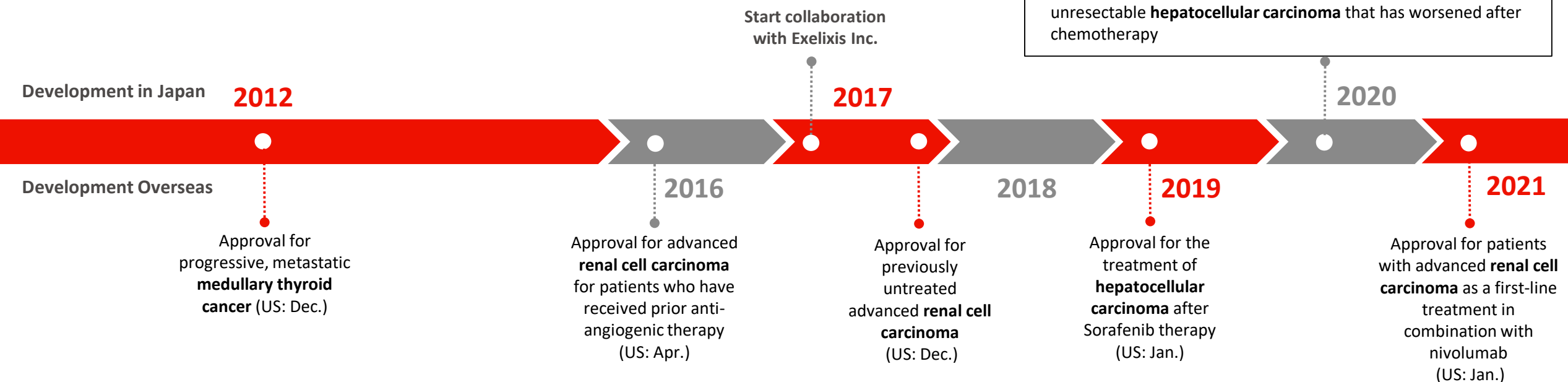


CLINICAL DEVELOPMENT OF CABOZANTINIB



- Cabozantinib is one of multiple TKIs, those targets includes VEGFR, MET and AXL, that Exelixis, Inc. has originally developed

- **March:** Received approval to manufacture and market cabozantinib for the indication of unresectable or metastatic **renal cell carcinoma**
- Began multiple global Phase III clinical trials to evaluate cabozantinib as a combo with atezolizumab (Roche/Chugai) (Clinical Trial Notification **NSCLC**: July, **CRPC**: August)
- **October:** Applied for unresectable or metastatic **renal cell carcinoma** as a combo with Nivolumab
- **November:** Received approval for partial change to the manufacturing and marketing approval for the indication of unresectable **hepatocellular carcinoma** that has worsened after chemotherapy



Today's Topics

1. Mode of Action & Product Information

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EPIDEMIOLOGY OF RENAL CELL CARCINOMA (RCC):

Japanese data



- Renal carcinoma: A malignant tumor arising in the renal parenchyma (epithelial tumor), including cancer (epithelial tumor), sarcoma (mesenchymal tumor) and lymphoma
 - Estimated number of cases of renal cancer in Japan: 29,572 (2017)
 - Estimated number of deaths from renal cancer in Japan: 4,531 (2018)
- Approximately **90%** of renal cancer takes the form of **RCC**¹
- The morbidity and mortality of RCC are on the rise worldwide
- Histological types of RCC²:
 - **Clear cell RCC (about 65% to 75%)**
 - Type 1 and type 2 papillary RCC (about 15% to 20%)
 - Chromophobe RCC (about 5% to 7%)
 - Other types include collecting duct carcinoma, renal medullary carcinoma and translocated renal carcinoma



Each histological type is associated with a different genetic abnormality and has a different clinical course

WHAT IS RENAL CELL CARCINOMA?



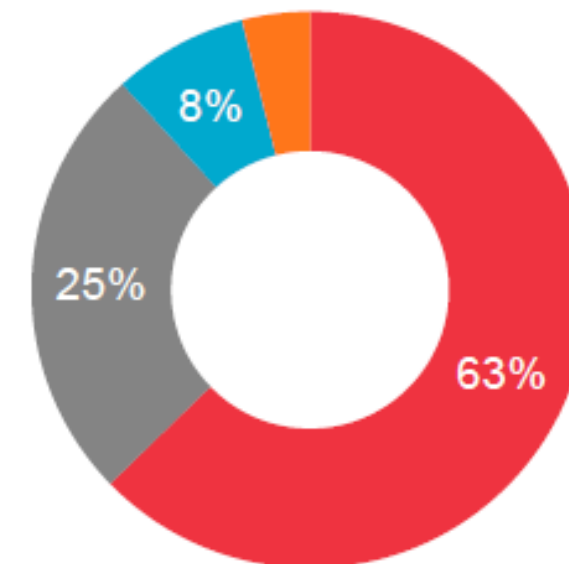
Major symptoms of Renal Cell Carcinoma

- RCC itself is often **asymptomatic**
- **Symptoms by metastases** are often detected incidentally: bone pain, enlarged lymph nodes or masses, respiratory symptoms, paraneoplastic syndromes (e.g., fever with unknown cause, night sweats, anorexia, weight loss)
- Clinical findings: macro- or microscopic hematuria, hypertension, anemia, red blood cell hyperplasia, hypercalcemia, etc.

Treatment of Renal Cell Carcinoma

- Diagnostic imaging: Determines the **clinical stage (Stage I-IV)** according to the size of the primary RCC, anatomical location, presence and number of lymph node metastases and presence of distal metastases
- Biopsy: For diagnosis of **histological type**
- Treatment plan is determined according to the **histological type, clinical stage, risk classification and general condition**
- Unlike other malignant diseases, surgical resection is recommended even if metastasis has taken place
- If completely unresectable, **systemic administration of anticancer drugs** is a treatment option

Factors Influencing Treatment Decisions, RCC, Japan, 2020

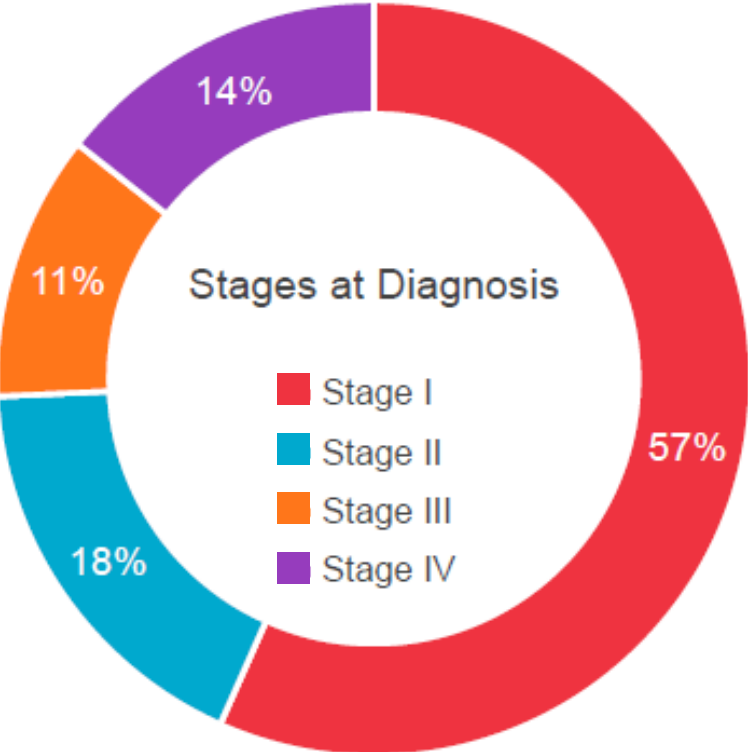


- Performance Status (PS)
- Risk Criteria
- Age
- Histology (clear cell versus non-clear cell)

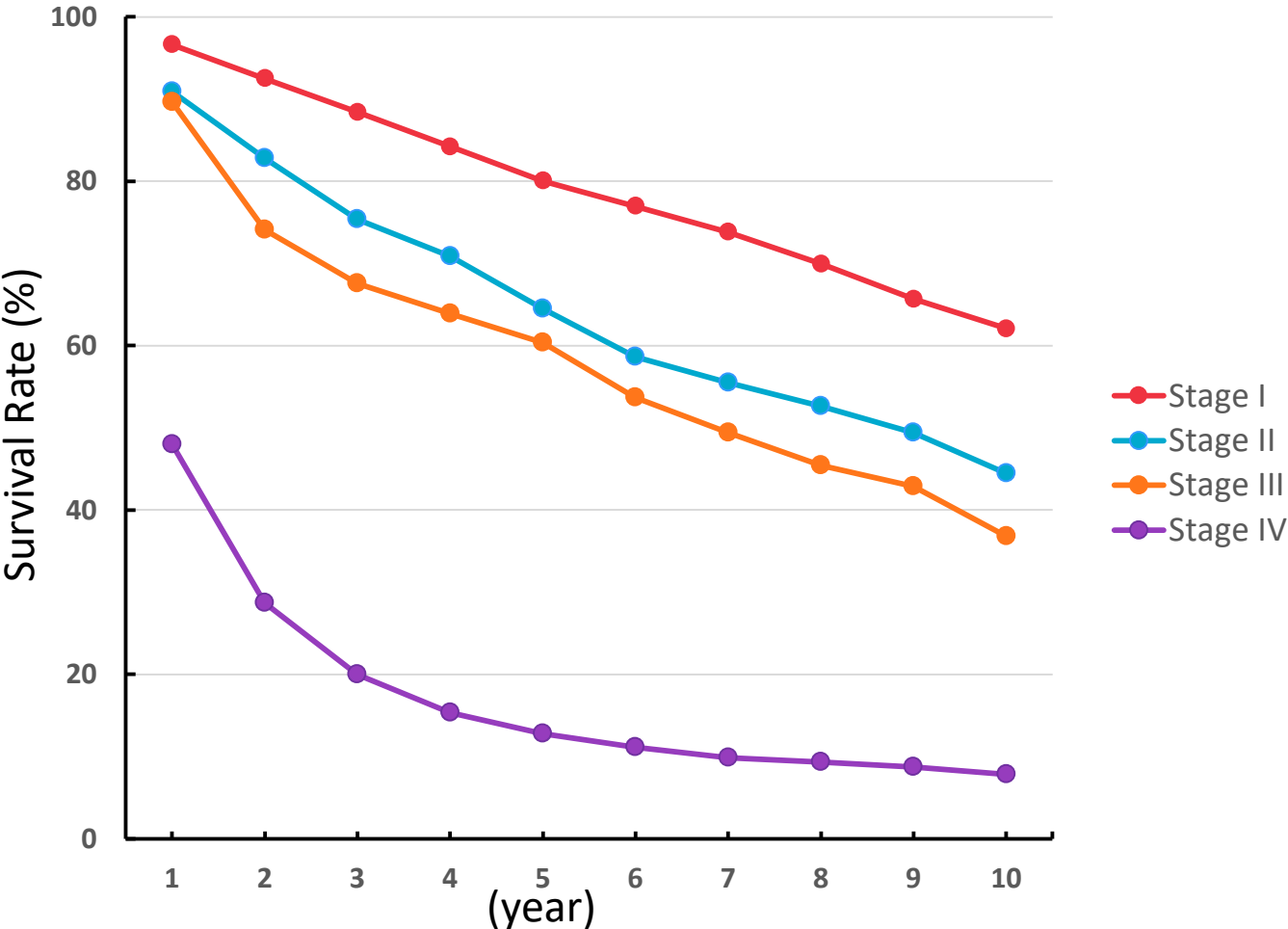
CLINICAL STAGING OF RENAL CELL CARCINOMA (JAPAN 2020)



Clinical Staging Distribution of renal cell carcinoma



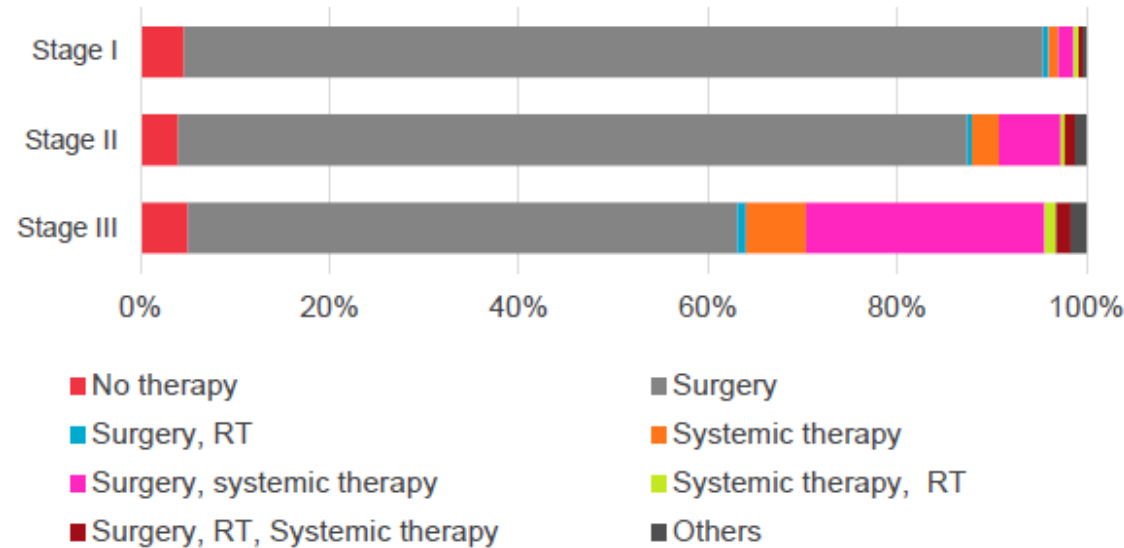
Survival Rate by Staging of Kidney cancer



TREATMENT MODALITY OF RENAL CELL CARCINOMA (Japan 2020)



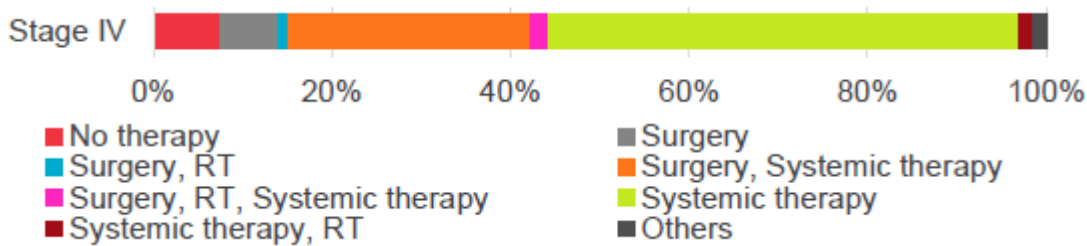
Initial Treatment Modality Distribution (%)



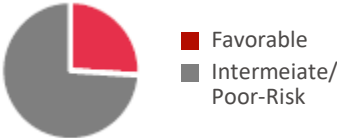
Top 3 Initial Systemic Regimens

Neoadjuvant	Adjuvant
Sunitinib Pazopanib	Sunitinib Pazopanib

Metastatic Treatment Modality Distribution (%)



Patient Risk Status



Top 3 Metastatic Systemic Regimens

	Favorable Risk	Intermediate/Poor Risk
First-line	Sunitinib Pazopanib Pembrolizumab/Axitinib	Nivolumab / Ipilimumab Pazopanib Sunitinib
Second-line		Axitinib Nivolumab Sunitinib
Third-line		Nivolumab Axitinib Pazopanib

Today's Topics

1. Product Information & Mode of Action

2. Disease Epidemiology Information

3. Clinical Trials & Data, Life Cycle Management

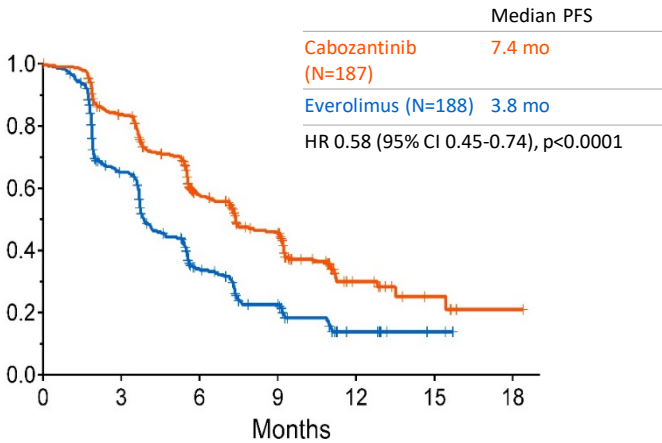
4. Product Positioning

METEOR STUDY (PH3, MONOTHERAPY, 2L~) EFFICACY



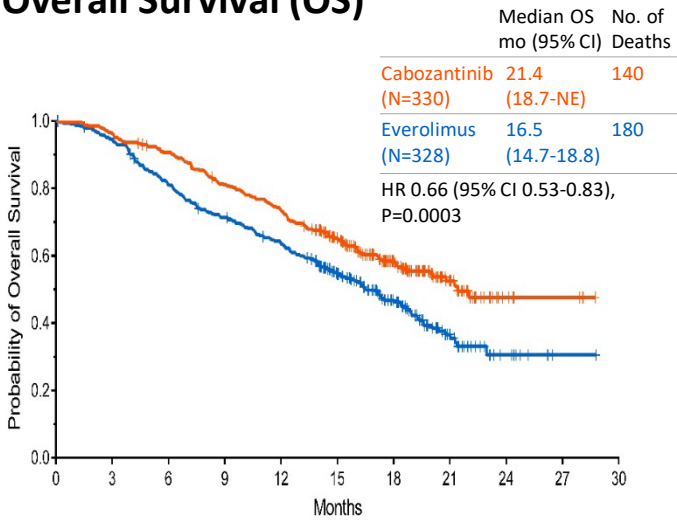
- Cabozantinib significantly improved all of PFS, OS and ORR
- The clinical benefits of cabozantinib consistent across all subgroups evaluated, including subgroups by risk classification and bone/liver metastases
- Cabozantinib is a standard of care for patients with advanced RCC after prior antiangiogenic therapy

Progression-Free Survival (PFS)¹



Cut-off : May 22, 2015

Overall Survival (OS)



Cut-off: Dec 31, 2015

Objective Response Rate (ORR)¹

	Cabozantinib N=330	Everolimus N=328
ORR, % (95% CI)	17 (13, 22)	3 (2, 6)
Stratified CMH test p-valued ²		<0.001
Unstratified CMH test p-valued		<0.001
Best overall response, N (%)	57 (17)	11 (3)
Confirmed complete response	0	0
Confirmed partial response	57 (17)	11 (3)
Stable disease	216 (65)	203 (62)
Progressive disease	41 (12)	88 (27)
Unable to determine	16 (5)	26 (8)

Cut-off: May 22, 2015

70 Prescribing information for CABOMETYX (USA), ¹ Per RECIST version 1.1., by IRC, ² p-value from CMH test with stratification factors of prior VEGFR-targeting TKI therapy (1 vs 2 or more), and MSKCC prognostic criteria for previously treated patients with RCC (0 vs 1 vs 2 or 3), IRC: independent radiology review committee, RECIST: Response Evaluation Criteria in Solid Tumors.



- The overall incidence of all-causality AEs was similar, 100% in the cabozantinib arm and 99.7% in the everolimus arm
- Treatment-emergent AEs were effectively managed with supportive care and/or dose modifications
- Discontinuations due to AEs were 12% in the cabozantinib arm and 11% in the everolimus arm

**Most common all causality AEs ≥30%
in the each arm were:**

Cabozantinib arm	Everolimus arm
<ul style="list-style-type: none">• diarrhea (75%)• fatigue (60%)• nausea (53%)• decreased appetite (49%)• palmar-plantar erythrodysaesthesia (PPE) syndrome (44%)• hypertension (37%)• weight decreased (35%)• vomiting (35%)	<ul style="list-style-type: none">• fatigue (48%)• anemia (40%)• decreased appetite (36%)• cough (35%)• dyspnea (30%)

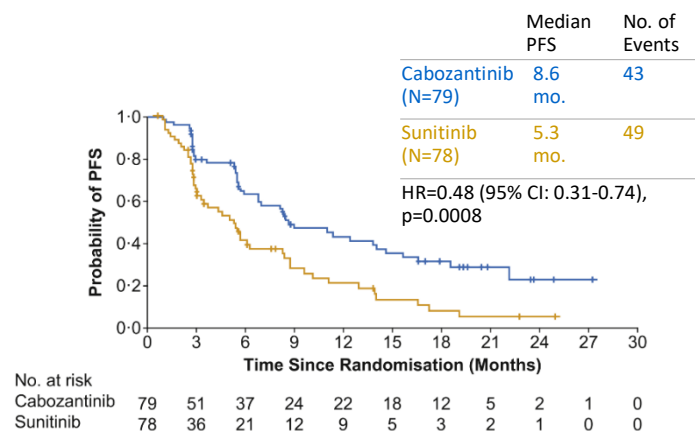
CABOSUN STUDY (PH2, MONOTHERAPY, 1L) EFFICACY



- Cabozantinib improved PFS and ORR compared to sunitinib in intermediate/poor risk groups
- PFS and ORR, consistently favorable for cabozantinib in the subgroups (≥ 20 subjects per treatment arm), including subgroups by risk classification and bone metastases
- Cabozantinib is a treatment option for untreated advanced RCC
- USA: Cabozantinib has been approved for RCC without line limitation (METEOR & CABOSUN)

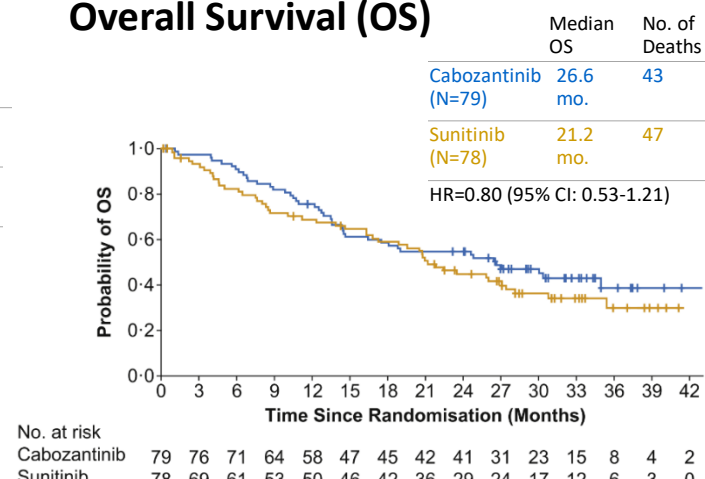


Progression-Free Survival (PFS) ¹



Cut-off : Sep 15, 2016

Overall Survival (OS)



Cut-off: Jul 01, 2017

Objective Response Rate (ORR) ¹

	Cabozantinib N=79	Sunitinib N=78
ORR, % (95% CI)	20 (12, 31)	9 (4, 18)
Stratified CMH test p-valued ²	0.0406	
Best overall response, N (%)	16 (20)	7 (9)
Confirmed complete response	0	0
Confirmed partial response	16 (20)	7 (9)
Stable disease	43 (54)	30 (38)
Progressive disease	14 (18)	23 (29)
Unevaluable or missing ²	6 (8)	18 (23)

Cut-off: Sep 15, 2016

CABOSUN STUDY (PH2, MONOTHERAPY, 1L) SAFETY



- The overall incidence of all-causality AEs was similar, 96.2% in the cabozantinib arm and 98.6% in the sunitinib arm
- Safety profile of cabozantinib similar to METEOR result was shown
- Treatment-emergent AEs were effectively managed with supportive care and/or dose modifications
- Discontinuations due to AEs were 21% in the cabozantinib arm and 22% in the sunitinib arm

Most common all causality AEs $\geq 30\%$ in the each arm were:

Cabozantinib arm	Sunitinib arm
<ul style="list-style-type: none">• diarrhea (73%)• hypertension (67%)• fatigue (64%)• AST increased (60%)• ALT increased (55%)• decreased appetite (47%)• palmar-plantar erythrodysesthesia (PPE) syndrome (42%)• dysgeusia (41%)• platelet count decreased (38%)• stomatitis (37%)• anemia (33%)• nausea (32%)• weight decreased (32%)	<ul style="list-style-type: none">• fatigue (68%)• platelet count decreased (61%)• diarrhea (54%)• anemia (46%)• hypertension (44%)• nausea (39%)• neutrophil count decreased (35%)• white blood cell count decreased (35%)• palmar-plantar erythrodysesthesia (PPE) syndrome (33%)• decreased appetite (32%)• AST increased (31%)

C2001 STUDY (PH2, MONOTHERAPY, 2L~) EFFICACY



- METEOR and C2001: Cabozantinib has shown comparable ORR in Japanese patients
- Similar effects by ORR were demonstrated by cabozantinib in the subgroups (≥ 10 subjects), including subgroups by risk classification, previous treatment regimens/ numbers and lung metastases
- METEOR, CABOSUN and C2001: Cabozantinib is considered effective for Japanese RCC without line limitation



Bridging strategy to METEOR study per ORR: similar target population with METEOR study

Objective Response Rate (ORR) per IRC¹
Overall N=35

ORR, % (95% CI)

20 (10, 34)

Best overall response, N (%)

• Confirmed complete response (CR)	0
• Confirmed partial response (PR)	7 (20)
• Stable disease (SD)	23 (66)
• Progressive disease (PD)	4 (11)
• Not evaluable	0
• Missing	1 (3)



6 months-PFSR by IRC¹ was 72.3% (95%CI, 53.3 to 84.), better than the cabozantinib data in METEOR study

Data Cut-off: Oct 23, 2018

C2001 STUDY (PH2 MONOTHERAPY, 2L~) SAFETY



- The overall incidence of all-causality AEs was, 100% in the cabozantinib arm and 99.7% in the sunitinib arm
- Similar safety profile of cabozantinib was shown in Japanese patients compared to METEOR study
- All patients experienced adverse events (AEs), all of which were effectively managed with supportive care and/or dose modifications
- Discontinuations due to AEs were 5.7%, lower than that in the cabozantinib arm of METEOR study (13.0%)

The most common all causality AEs (≥30%)

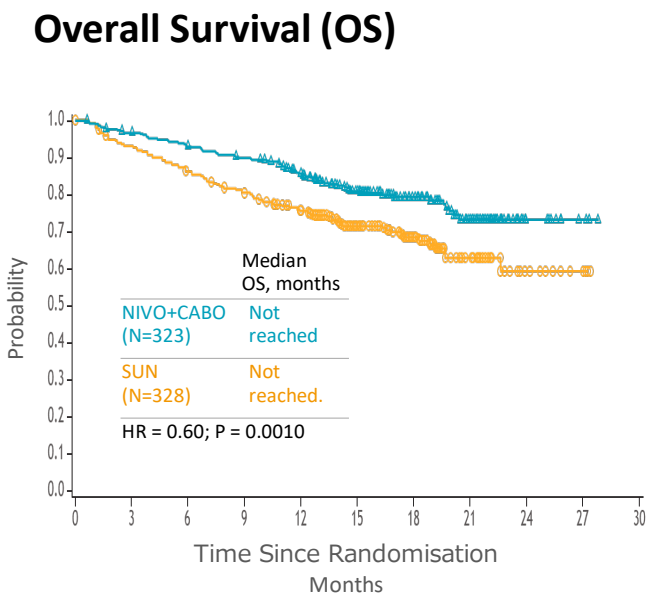
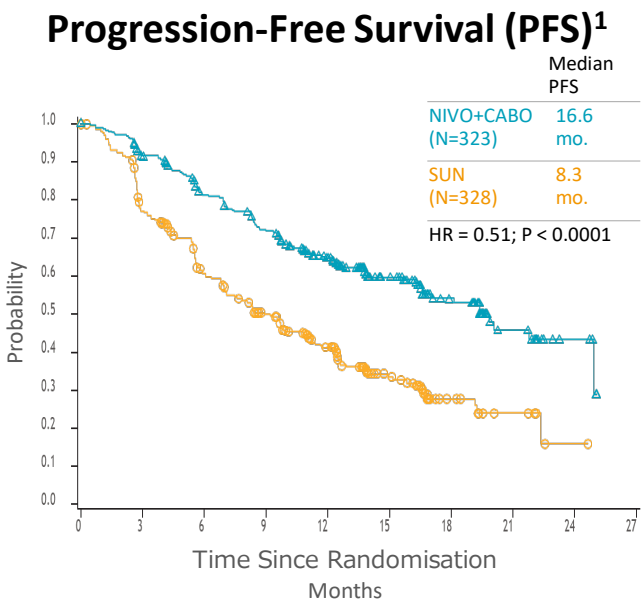
Cabozantinib arm

- palmar-plantar erythrodysesthesia (PPE) syndrome (63%),
- diarrhoea (60%),
- hypertension, proteinuria and stomatitis (each 40%),
- dysgeusia and hepatic function abnormal (each 34%)

CHECKMATE-9ER STUDY (PH3, COMBO WITH NIVO, 1L) EFFICACY



- Nivo/Cabo significantly improved all of PFS, OS and ORR in previously untreated patients with advanced or metastatic RCC
- The observed clinical benefits were consistent across almost of subgroups evaluated, including subgroups by PD-L1 status at baseline, risk classification, bone metastases
- Nivo/Cabo can be a standard of care for patients with advanced or metastatic untreated RCC



Objective Response Rate (ORR)¹

	NIVO+CAVO N=323	SUN N=328
ORR, % (95% CI)	55.7 (51, 61)	27.1 (22, 32)
P < 0.0001		
Best overall response, N (%)	180 (55.7)	89 (27.1)
Complete response	26 (8.0)	15 (4.6)
Partial response	154 (47.7)	74 (22.6)
Stable disease	104 (32.2)	138
Progressive disease	18 (5.6)	(42.1)
Not evaluable/not assessed ²	21 (6.5)	45 (13.7)
		56 (17.1)

Data Cut-off: Feb.12, 2020

76 ESMO presentation #6960, 2020, ¹ Per RECIST version 1.1., by IRC, ² Includes patients who were never treated, those who discontinued/died before disease assessment, those without measurable disease at baseline per IRC, or other reason not reported/specified, IRC:: independent radiology review committee, , RECIST: Response Evaluation Criteria in Solid Tumors.



- The overall incidence of all-causality AEs was similar, 99.7% in the cabozantinib/nivolumab arm and 99.1% in the sunitinib arm
- Most AEs were recovered or recovering by treatment and/or dose modifications, and thus manageable.
- Discontinuations due to AEs were 19.7% and 16.9% in the cabozantinib/nivolumab arm and the sunitinib arm¹

Most common all causality TEAEs ≥30% in the each arm were:	
Nivo/Cabo arm	Sunitinib arm
<ul style="list-style-type: none">• diarrhea (63.8%)• palmar-plantar erythrodysesthesia syndrome (40.0%),• hypertension (34.7%),• hypothyroidism (34.1%)• fatigue (32.2%)	<ul style="list-style-type: none">• diarrhea (47.2%)• palmar-plantar erythrodysesthesia syndrome (40.6%),• hypertension (37.2%)• fatigue (34.7%)• nausea (30.6%)

77 ESMO presentation #6960, 2020 , ¹ Discontinuation includes events leading to discontinuation of either NIVO or CABO at any time; the assessment for discontinuation of NIVO and CABO were made separately for each drug, it was acceptable to continue treatment with only the study drug that was not related to the observed toxicity.

LIFE CYCLE MANAGEMENT



Monotherapy

CELESTIAL study Ph3 2L aHCC

Approval (EU: Nov. 2018, US: Jan, 2019)

C2003 study JPN-Ph2 aHCC

Approval (JPN: Nov. 2020)

Combination with Atezolizumab (JPN: CONTACT-01, -02 and -03)

Study	Setting	Status Update	Next Milestone(s)
COSMIC 311 Cabozantinib	DTC RAI refractory, up to 2 prior VEGFR TKIs	Analysis in Q4 2020: Trial met primary endpoint of PFS, cabozantinib reduced the risk of death or PD by 78% (HR 0.22, p<0.0001)	File sNDA in 2021; Present detailed data at an upcoming medical meeting
COSMIC 312 Cabozantinib + Atezolizumab	1L aHCC	Global enrollment complete	Event-driven, top-line analysis of PFS and OS in 1H 2021; File sNDA in 2021, data-dependent
COSMIC 313 Cabozantinib + Nivolumab + Ipilimumab	1L aRCC IMDC intermediate and poor risk	Expanded enrollment to 840 patients to provide additional power to assess secondary endpoint OS	Event-driven analysis 2022
COSMIC 021 Cabozantinib + Atezolizumab	Multiple Tumors	Expanded cohorts in mCRPC (Cohort 6) and ICI pretreated NSCLC (Cohort 7) fully enrolled	Final analysis of ORR by BIRC of Cohort 6 (mCRPC) in mid-2021; File sNDA in 2021, data-dependent
CONTACT-01 Cabozantinib + Atezolizumab	Metastatic NSCLC , after ICI and platinum chemo	Actively enrolling globally	Study enrollment ongoing
CONTACT-02 Cabozantinib + Atezolizumab	mCRPC , after one NHT	Actively enrolling globally	Study enrollment ongoing
CONTACT-03 Cabozantinib + Atezolizumab	aRCC , w/progression during or following ICI	Actively enrolling globally	Study enrollment ongoing

DTC: differentiated thyroid cancer

aHCC: advanced hepatocellular carcinoma

ORR: objective response rate

mCRPC: metastatic castration-resistant prostate cancer

ICI: immune checkpoint inhibitor

IMDC: International Metastatic RCC Database Consortium

NSCLC: non-small cell lung cancer

NHT: novel hormonal therapy

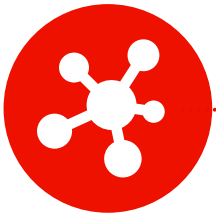
Today's Topics

1. Product Information & Mode of Action

2. Disease Epidemiology Information

3. Clinical Trials & Data, Life Cycle Management

4. Product Positioning



- High unmet needs in Japan for **RCC, HCC, NSCLC** and **CRPC** patients, with limited therapies available
 - Limited number of treatment options
 - Limited efficacy
- Cabozantinib offers a new option with unique profile of **VEGFR, MET** and **AXL** inhibition
- **Combination with ICI**, addition to monotherapy, offers broader indications and target populations
 - RCC 1L: Combination therapy with ICI is expected to have higher efficacy, but may not be an option **in some cases, such as in patients with autoimmune diseases**
 - Combination with atezolizumab may expand target indications
- Launch projection
 - RCC combo with nivolumab: **Dec.2021**
 - Combo with atezolizumab
 - NSCLC: **1Q 2024**
 - CRPC: **1Q 2024**
 - RCC: **2Q 2024** (conducted by Chugai in Japan)



Takeda Pharmaceutical Company Limited