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Takeda Pharmaceutical Company Limited

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Overview of Takeda Oncology

ADCETRIS (brentuximab vedotin)

NINLARO (ixazomib)

NINLARO development

Multiple myeloma treatment paradigm

NINLARO action plan

Summary



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The Takeda Oncology team here today





Christophe Bianchi, M.D. President, Global Oncology Business Unit



Brian DeSchuytner Global Head, NINLARO



Helgi Van De Velde, M.D., Ph.D VP, Oncology Clinical Research



Kelly Page Global Head, ADCETRIS



Tsudoi Miyoshi Head of Japan Oncology Business Unit



Liviu Niculescu, M.D., Ph.D VP, Global and U.S Oncology Medical Affairs



Our Vision

WE ASPIRE TO CURE CANCER



Our Mission

To deliver extraordinary medicines for people with cancer worldwide through our science, innovation and passion.



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Oncology is a key growth driver for Takeda



>2,000 Employees dedicated against cancer

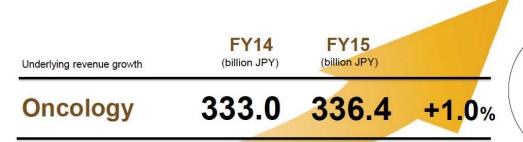
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Countries operating in oncology

>\$1_B

Overall annual investment in oncology R&D

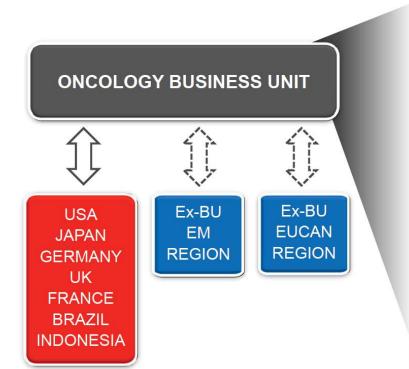
Marketed oncology products



Underlying growth of Oncology excl. VELCADE royalties

Takeda Oncology Business Unit model





KEY RESPONSIBILITIES

- 1. More Direct input from Key
 Countries for Commercial and
 Development Strategies
 = Customer Focus and Agility
- 2. Development of Global
 Commercial Medical Plans
 and Global Execution Support
 = Strategic Alignment
- 3. Seven Oncology BU Countries
 Accounting for 70-75% of the
 Oncology Market
 = Increased Accountability
 and Commitment
- 4. Drive Focused M&A and BD Effort = New Value Drivers

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Our oncology strategy builds on current pipeline success and strengthens new capabilities through partnerships



MAXIMIZE

NINLARO & ADCETRIS

PRIORITIZE

FOCUS ON KEY PIPELINE
ASSETS WITH
TRANSFORMATIVE
POTENTIAL

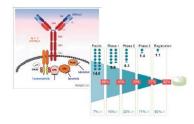
COLLABORATE

ANTIBODY DRUG CONJUGATES & PARTNERING IN IMMUNO-ONCOLOGY





Deliver to broader patient populations



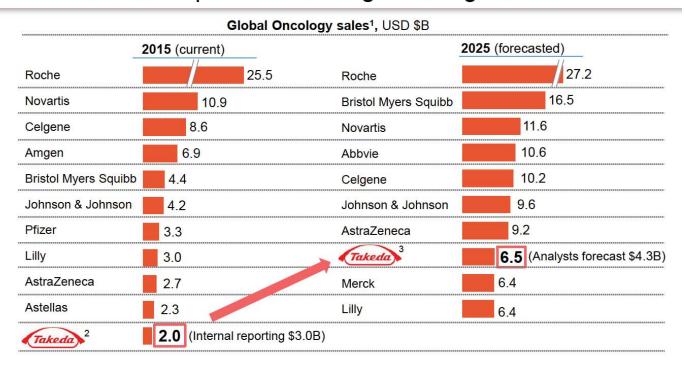
Set high barriers to differentiate, sourcing from internal and external expertise



Bringing internal expertise in discovering and developing targeted therapies together with external cutting-edge platforms and capabilities

Our aspiration is to be a top 10 oncology company in 2025 and rank top 5 in hematological malignancies





2. 2015 sales reported in EvaluatePharma® 2016. 3.From Takeda's internal base case projection.

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The 6 brands of our oncology portfolio are transforming the market and the lives of patients



Solid Tumors Hematologic Malignancies leuprorelin Mepact & **NINLARO** ENANTONE VELCADE **ADCETIS** (ixazomib) capsules A foundational First fully First-in-class First ever First-in-class First and only hormonal human antiimmunoproteasome CD30-directed oral proteasome antibody-drug treatment in EGFR mAb in modulator for inhibitor, for inhibitor: multiple myeloma Transformative prostate cancer colorectal non-metastatic conjugate in in multiple cancer osteosarcoma and mantle cell Hodgkin lymphoma lymphoma and myeloma systemic ALCL Global Outside Global EU U.S. Japan and Takeda Japan U.S. and **Territories** select countries EM expansions Canada in Asia and EU **First** 1985 (U.S) 2010 (EU) 2003 (U.S.) 2012 (EU) 2015 (U.S.) 2010 (Japan) Launch Takeda 124.4B¥ 18.4B¥ 2.7B¥ 27.6B¥ 162.0B¥ 4.0B ¥ revenues (FY2015) (US Sales >\$1B for past 2 years)

Includes immunosuppressants, immunostimulants, and Interferons; with indications in oncology, EvaluatePharma® 2016.

NINLARO key markets summary





U.S. Launch proceeding ahead of expectations with excellent demand ramp up and positive feedback from the community



Japan submission timelines under discussion



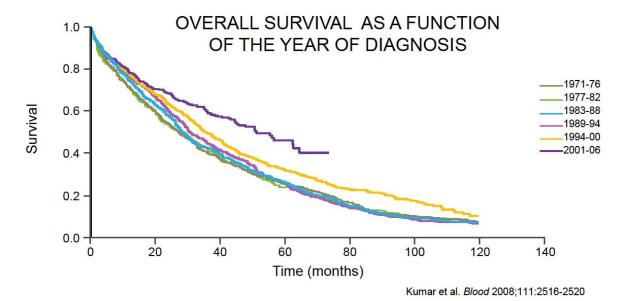
- European CHMP issued a negative opinion on May 27
 - Exact scientific grounds for that opinion are being analyzed but we believe it is only a temporary setback and stand by the clinical profile of NINLARO as do other stakeholders:
 - U.S. FDA record time approval and the initial experience from doctors and patients after launch
 - New England Journal of Medicine publication of pivotal study
 - Many European myeloma experts expressing strong support
 - We have filed a request for re-examination which should take about 6 months

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Takeda has a legacy in the fight against myeloma with VELCADE, an important clinical and commercial benchmark

- VELCADE positively impacted survival of myeloma patients across lines of treatment and established proteasome inhibition as the standard of care
- VELCADE has achieved great commercial success treating about 70,000 patients per year resulting in global sales of \$2.7B*



Injectable proteasome inhibitors have limitations preventing them from achieving higher impact



- Twice weekly injections requiring frequent clinic/hospital visits
- A side effect profile including either:
 - A clinically meaningful rate of peripheral neuropathy
 - Unpredictable and potentially life threatening cardiovascular events
- Real-life duration of treatment of only 6 months
 - Much shorter than clinical trial experience
 - Often shorter than required to optimize patient outcomes

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Oral NINLARO builds on the legacy of injectable proteasome inhibitors





Efficacy of proteasome inhibition



Oral



Low overall peripheral neuropathy



No cardiovascular safety signals

Takeda Oncology





- Cambridge, MA USA headquarters
 - Well situated for Business Development activities, innovation network, academic collaborations and attracting talent
- Dedicated to delivering best-in-class medicines with the goal of significantly improving the treatment of cancer worldwide
- Oncology Business Unit: an agile model balancing the local needs of the cancer community and global alignment
 - Strong cohesion among Commercial, Medical Affairs and R&D
 - Ability to respond quickly to emerging data and patient needs
 - Strong commercial infrastructure in hematological malignancies in key markets
- Two potential future blockbusters, ADCETRIS and NINLARO, will position
 Takeda Oncology in a strong leadership position

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Patient Video







Overview of Takeda Oncology

ADCETRIS (brentuximab vedotin)

Presented by Kelly Page

NINLARO (ixazomib)

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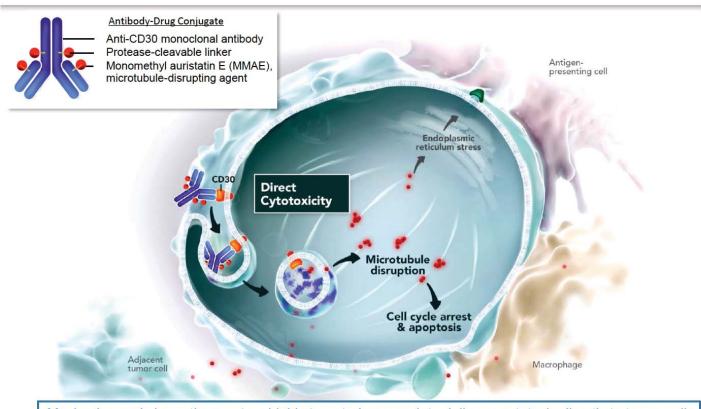


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ADCETRIS: Designed with the patient in mind

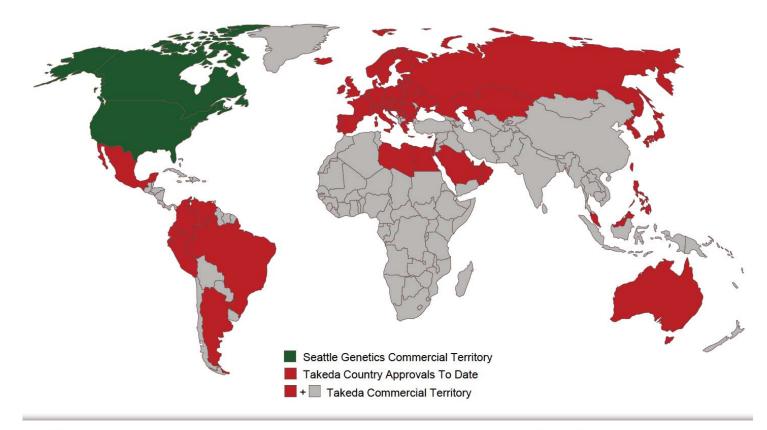




Moving beyond chemotherapy to a highly targeted approach to deliver a cytotoxin directly to tumor cells

ADCETRIS: Transforming patient care Approved in 64 countries with over 27,000 patients treated

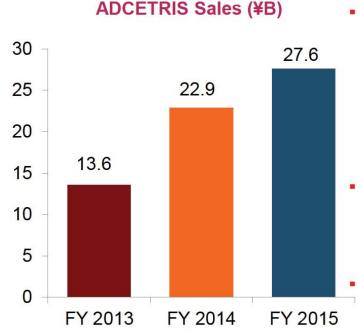




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ADCETRIS is becoming a global standard of care FY15 revenues up 21% from FY14





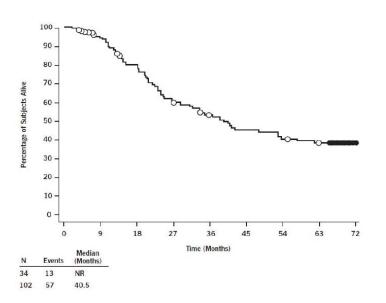
- ADCETRIS is approved for use in:
 - Relapsed or refractory (R/R) Hodgkin lymphoma (HL)
 - Following autologous stem cell transplant
 - Patients ineligible for transplant that have failed two prior chemotherapy regimens
 - R/R systemic anaplastic large cell lymphoma (sALCL)
- In early launch countries (DE, FR, UK, JP), greater than 60% of R/R HL patients have received ADCETRIS and continues to grow in other parts of the world
- Similarly, share in R/R sALCL is reaching 60% in these countries

Source: KPI Tracking Research, H2 FY15

Unprecedented outcomes with ADCETRIS in R/R HL



41% Overall Survival at 5 years in Relapsed or Refractory Hodgkin Lymphoma



- First new agent approved in R/R HL in over 30 years
- Estimated 5 yr OS = 41% (95% CI: 31%, 51%; range: 1.8-72.9+)
- Median PFS = 9.3 months (95% CI: 7.1, 12.2)
- Median overall survival (OS) and progression free survival (PFS) not reached in patients with a complete response
- The most frequent adverse events were peripheral sensory neuropathy, fatigue, nausea, diarrhea, neutropenia, vomiting, cough, pyrexia, and upper respiratory tract infection

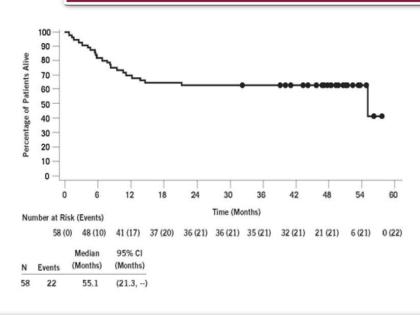
Chen R, et al. ASH 2015, Poster presentation (Abstract #2736) EU SmPC

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Unprecedented outcomes with ADCETRIS in R/R sALCL



64% Overall Survival at 4 years in Relapsed or Refractory Systemic Anaplastic Large Cell Lymphoma (sALCL)

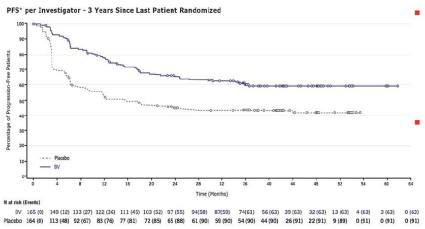


- First agent ever approved specifically for sALCL
- Estimated 4 yr OS = 64%
 (95% CI: 51%, 76%)
- Median PFS per investigator
 = 20.0 months (95% CI: 9.4, -)
- 19 of 38 patients with a complete response remained progression free at the time of this analysis
- The safety profile was similar to that reported for R/R HL

Success of the Phase 3 AETHERA study may lead to a new treatment paradigm in Hodgkin lymphoma



Consolidation treatment following ASCT in HL patients showed an 18.8 month benefit over the comparator



- At 2 years, early consolidation with ADCETRIS demonstrated improved PFS in HL patients at increased risk of relapse or progression (HR=0.57, P=0.001)
- 2-year PFS rates per investigator of 65% and 45% on the ADCETRIS and placebo arms, respectively
 - Difference was sustained at the 3 year follow-up (shown)
- Safety was similar to that of previous single agent studies, however a higher rate of peripheral neuropathy was seen

Moskowitz CH, et al. Lancet 2015;385:1853-62, Sweetenham J, et al. ASH 2015, Poster presentation (Abstract #3172)

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Redefining treatment of frontline HL

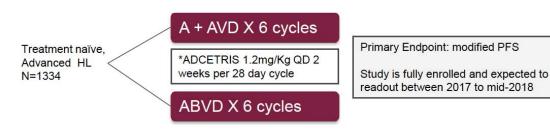


Frontline Advanced Hodgkin Lymphoma

| Phase 1 ADCETRIS+AVD (N | =26) |
|--------------------------------|------|
| Complete remission (CR) | 96% |
| Pulmonary toxicity (any event) | 0% |
| 3-year failure-free survival | 92% |
| 3-year overall survival | 100% |

| Historical Results with ABVD | |
|------------------------------|-----------|
| CR rate in advanced HL | 70-80% |
| Rate of pulmonary toxicity | up to 25% |
| 3-year failure-free survival | ~75% |
| 5-year overall survival | 80-90% |

ECHELON-1: Phase 3 Study of ADCETRIS+AVD in Treatment Naïve, Advanced HL

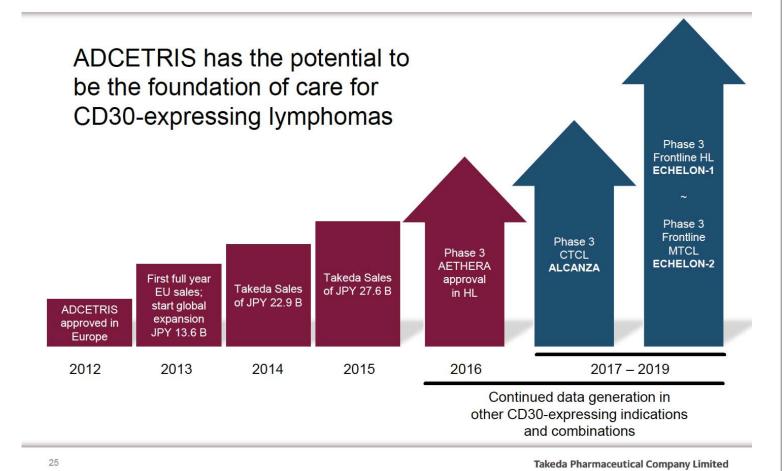


- 1. SGN35009 data: Younes A et. al . Lancet Oncol. 2013 Dec;14(13):1348-56, Connors et al, ASH2014 (Abstract# 292)
- 2. ABVD historical data: Younes et al, Lancet Vol 14 December 2013; Duggan DB et al, JCO 2003;21(4):607-14; Johnson et al, JCO 2005; 23 (38)

Skoetz et al Lancet Oncol 2013; 14: 943–52

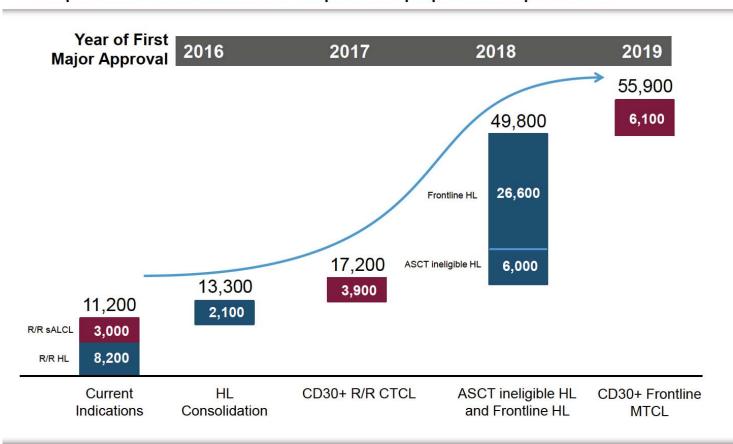
The ADCETRIS opportunity





Assuming success in ongoing studies ~4-fold expansion of addressable patient population possible





ADCETRIS is well positioned for global success



- Demonstrated long-term overall survival in both R/R sALCL and R/R Hodgkin lymphoma
- Approval of retreatment in both R/R sALCL and R/R Hodgkin lymphoma
- Combination studies with PD-1 agents
- Potential approval of earlier line indications, particularly frontline Hodgkin lymphoma
- Proven global commercial infrastructure and resources
- Commitment to our vision and to the patient community
 - Access to Medicine Initiative providing opportunities to bring ADCETRIS to additional
 EM countries, such as Kenya, and increasing access in other places, such as Brazil

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Agenda



Overview of Takeda Oncology

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NINLARO (ixazomib)

NINLARO development

Presented by Helgi Van De Velde

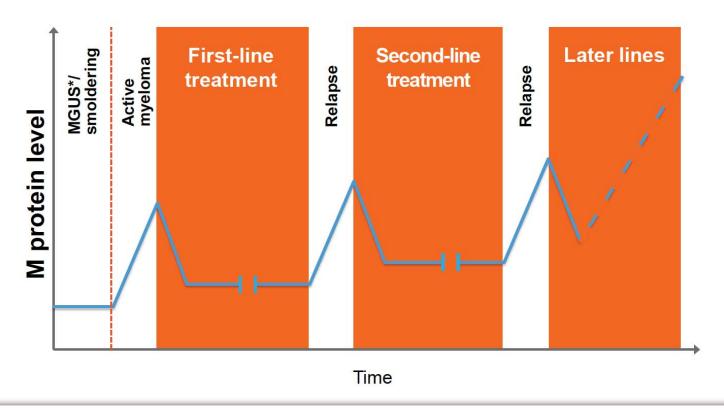
Multiple myeloma treatment paradigm NINLARO action plan

Summary



Multiple myeloma patients may undergo several lines of treatment





*Monoclonal gammopathy of undetermined significance

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Patients face many treatment and disease burdens



TYPICAL R/R MM PATIENT

PATIENT DEMOGRAPHICS

- >70 years, failed 1-3 therapies
- Most likely polypharmacy for other conditions, prophylaxis, and treatmentrelated adverse reactions

PREVIOUS TREATMENTS

- Bortezomib (VELCADE), lenalidomide, and oral steroids
- Alkylating agents for transplant patients (eg, melphalan)

STANDARDS OF CARE

- Current: bortezomib or lenalidomide plus dexamethasone
- Potential future: treating to progression with triplet therapy and/or combinations of monoclonal antibodies, proteasome inhibitors, and immunomodulators



POTENTIAL ADVERSE REACTIONS/COMORBIDITIES

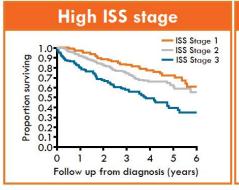
- Disease-related: renal impairment, bone pain, fractures, and fatigue
- Treatment-related: peripheral neuropathy, deep vein thrombosis, or secondary malignancies
- Other: Cardiovascular complications, bone disease, metabolic, and other conditions that must be treated

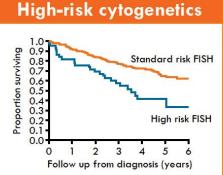
UNMET MEDICAL AND PERSONAL NEEDS:

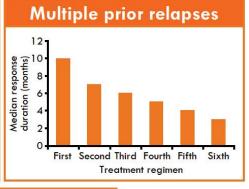
- · Avoiding relapse and extending life
- Safer treatment (fewer toxicities)
- Simpler treatment (minimizing the impact of treatment/clinical concerns on daily life)

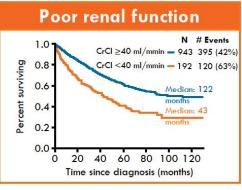
Patients with adverse prognostic characteristics have a particularly high unmet need

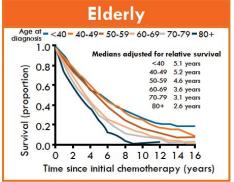












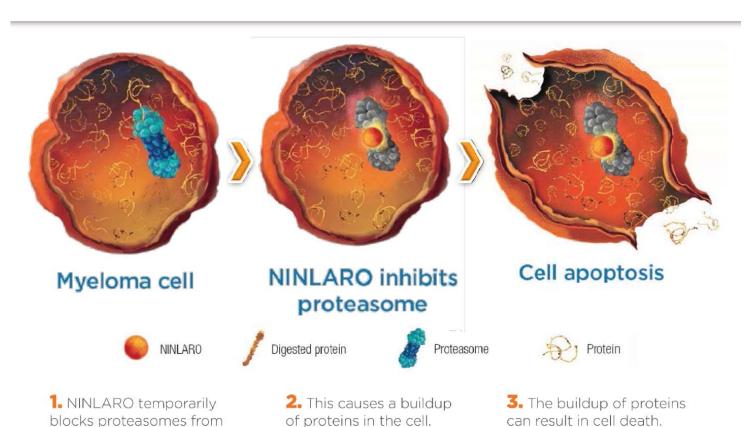
CrCl, creatinine clearance; FISH, fluorescence in situ hybridisation

Kumar SK, et al. Leukemia 2014;28:1122-1128; 2. Ludwig H, et al. J Clin Oncol 2010;28:1599 - 1605;
 Gonsalves WI, et al. Blood Cancer J 2015;5:e296; 4. Kumar SK, et al. Mayo Clin Proc 2004;79:867-874.

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NINLARO mechanism of action

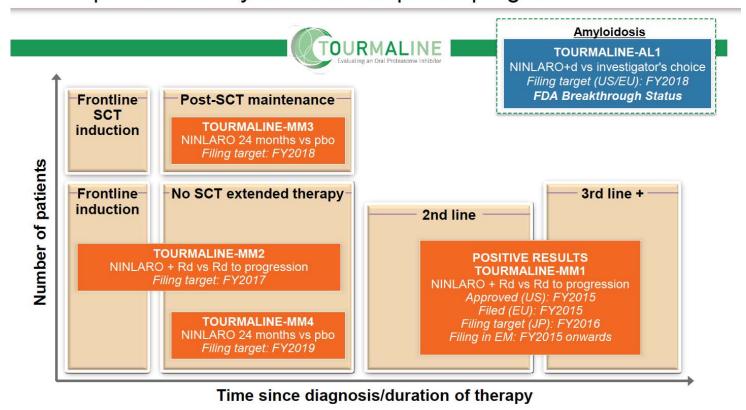




breaking down proteins.

The TOURMALINE-MM1 Study is the first of a most comprehensive myeloma development program





Rd = Revlimid (lenalidomide) + dexamethasone pbo = placebo

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Our myeloma expertise drove excellent R&D execution and allowed rapid progress



| First Myeloma Trial Oct. 2009 Initiation of Phase 3 Rd Combo in R/R MM FDA Submission July 2015 FDA Approval Nov 2015 6 years from 1st patient enrolled to approval approval 133 days | Initiation of Phase 3 | Oct. 2009 | |
|--|-----------------------|-----------|--|
| FDA Submission FDA Approval Nov 2015 | Rd Combo in R/R MM | A 0040 | The state of the s |
| FDA Approval Nov 2015 | | | |
| | | | |
| | | | 422 days |

TOURMALINE-MM1: Phase 3 study of weekly oral ixazomib + lenalidomide + dexamethasone



Global, double-blind, randomized, placebo-controlled study design



Ixazomib + Lenalidomide + Dexamethasone

Ixazomib: 4 mg on days 1, 8, and 15 Lenalidomide: 25 mg* on days 1-21 Dexamethasone: 40 mg on days 1, 8, 15, 22

Repeat every 28 days until progression, or unacceptable toxicity

Placebo + Lenalidomide + Dexamethasone Placebo: on days 1, 8, and 15

Lenalidomide: 25 mg* on days 1-21 Dexamethasone: 40 mg on days 1, 8, 15, 22

Stratification:

- Prior therapy: 1 vs 2 or 3
- · ISS: I or II vs III
- PI exposure: yes vs no

Primary endpoint:

PFS

Key secondary endpoints:

- OS
- OS in patients with del(17p)

Response and progression (IMWG 2011 criteria¹) assessed by an independent review committee (IRC) blinded to both treatment and investigator assessment

*10 mg for patients with creatinine clearance ≤60 or ≤50 mL/min, depending on local label/practice 1. Rajkumar S, et al. Blood 2011;117:4691–5.

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TOURMALINE-MM1 is a rigorous Phase 3 trial with populations representative of real-world patients



| TRIAL | TOURMALINE-MM1 ixazomib | ELOQUENT-1 elotuzumab | ASPIRE carfilzomib |
|--|-------------------------|--------------------------|--------------------|
| Blinded, Placebo Control | • | | |
| Primary Refractory Patients Allowed | | | |
| Free Light Chain Only Disease Allowed | • | | |
| Creatinine Clearance < 50 mL/min | | | |
| Serum M-Protein cut-off ≥ 1 g/dL | • | | |
| Global Enrollment Including Asia | | | |
| del(17) cut-off >60% | | | |
| Response rates co-primary endpoint | | | |

Ixazomib, the first oral proteasome inhibitor, significantly extends PFS in TOURMALINE-MM1



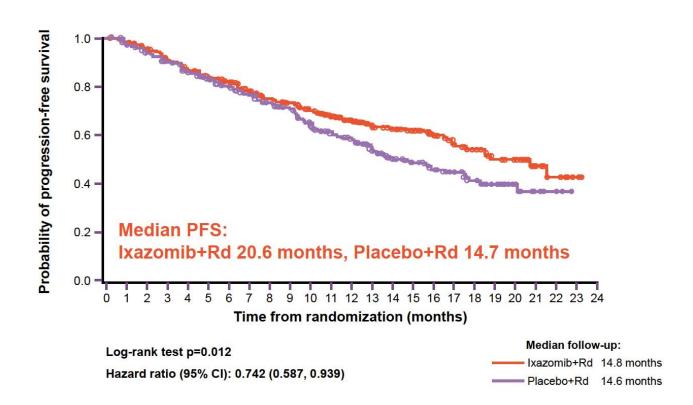
- TOURMALINE-MM1 is a uniquely robust placebo-controlled study of IRd compared to Rd
 - This data was recently published in the New England Journal of Medicine and demonstrated a significant extension in progression-free survival and a favorable benefit-risk profile for patients with relapsed and/or refractory multiple myeloma (R/R MM)
- IRd provided patients with relapsed and/or refractory MM with:
 - A significant and clinically meaningful improvement in PFS
 - Significantly improved time to progression (TTP) and response rates
 - Improved PFS in high-risk patients
- Ixazomib added limited additional toxicity to the placebo regimen
 - Low rates of peripheral neuropathy and no cardiovascular, pulmonary, or renal signals
 - Patient-reported quality of life was maintained
- The all-oral regimen of IRd provides an additional therapeutic option for patients with R/R MM

IRd = NINLARO (ixazomib) + Revlimid (lenalidomide) + dexamethasone Rd = Revlimid (lenalidomide) + dexamethasone

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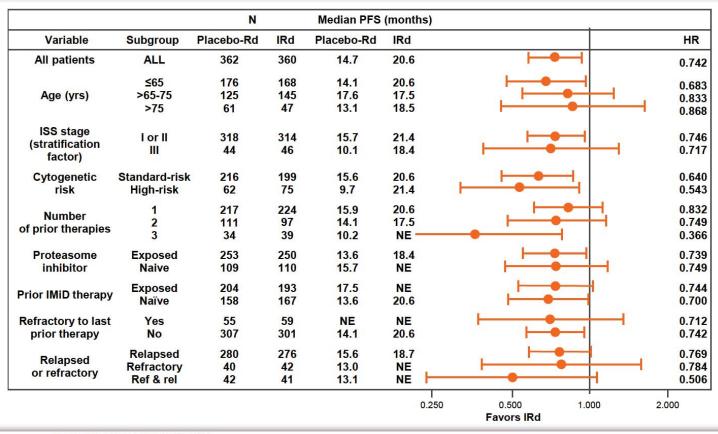
TOURMALINE-MM1: Significant 35% improvement in progression-free survival (PFS) with IRd





TOURMALINE-MM1: Consistent PFS benefit across pre-specified patient subgroups





Moreau P et al. N Engl J Med 2016;374(17). IRd = NINLARO (ixazomib) + Revlimid (lenalidomide) + dexamethasone Rd = Revlimid (lenalidomide) + dexamethasone

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TOURMALINE-MM1: Improved response rates, durable responses, and improved time to progression (TTP) with IRd

| Response rates | IRd (N=360) | Placebo-Rd (N=362) | p-value |
|----------------------------------|-------------|--------------------|---------------------|
| Confirmed ORR (≥PR), % | 78.3 | 71.5 | p=0.035 |
| CR+VGPR, % | 48.1 | 39.0 | p=0.014 |
| Response categories | | | |
| CR, % | 11.7 | 6.6 | p=0.019 |
| PR, % | 66.7 | 64.9 | _ |
| VGPR, % | 36.4 | 32.3 | _ |
| Median time to response, mos | 1.1 | 1.9 | _ |
| Median duration of response, mos | 20.5 | 15.0 | _ |
| Median TTP, mos | 21.4 | 15.7 | HR 0.712 p=0.007 |

TOURMALINE-MM1: Ixazomib adds limited additional toxicity to Rd upon prolonged exposure



- At 23 months, median number of treatment cycles: 17 (range 1–34) for IRd, and 15 (1–34) for placebo-Rd
 - 48% and 43% of patients had received ≥18 cycles, respectively

| Adverse event (AE) | IRd (N=361), % | Placebo-Rd (N=359), % |
|--|-------------------|--------------------------|
| Any AE | 98 | 99 |
| Any grade ≥3 AE | 74 | 69 |
| Any serious AE | 47 | 49 |
| AE resulting in discontinuation of study regimen | 17 | 14 |
| On-study death (death within 30 days of last dose) | 4 | 6 |

- Higher frequency of grade ≥3 AE, primarily due to thrombocytopenia
- Rates of serious AEs, AEs resulting in discontinuation or on-study death were similar between the two arms
- Peripheral neuropathy: no difference in high grade events
- No cardiac, thrombovascular, renal or pulmonary signals

Moreau P et al. N Engl J Med 2016;374(17). IRd = NINLARO (ixazomib) + Revlimid (lenalidomide) + dexamethasone Rd = Revlimid (lenalidomide) + dexamethasone

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AEs after median follow-up of 23 months: Increased rates with IRd driven by low-grade events



| | IRd (N=361), % | | | Placebo-Rd (N=359), % | | | | |
|-----------------------------------|-----------------------------------|---------|---------|-----------------------|---------|---------|--|--|
| Preferred terms | All-grade | Grade 3 | Grade 4 | All-grade | Grade 3 | Grade 4 | | |
| AEs overlapping with | AEs overlapping with lenalidomide | | | | | | | |
| Diarrhea | 45 | 6 | 0 | 39 | 3 | 0 | | |
| Constipation | 35 | <1 | 0 | 26 | <1 | 0 | | |
| Nausea | 29 | 2 | 0 | 22 | 0 | 0 | | |
| Vomiting | 23 | 1 | 0 | 12 | <1 | 0 | | |
| Rash* | 36 | 5 | 0 | 23 | 2 | 0 | | |
| Back pain | 24 | <1 | 0 | 17 | 3 | 0 | | |
| Upper respiratory tract infection | 23 | <1 | 0 | 19 | 0 | 0 | | |
| Thrombocytopenia | 31 | 12 | 7 | 16 | 5 | 4 | | |
| AEs with proteasome | inhibitors | | | | | 2000 | | |
| Peripheral neuropathy* | 27 | 2 | 0 | 22 | 2 | 0 | | |
| Peripheral edema | 28 | 2 | 0 | 20 | 1 | 0 | | |
| AEs with lenalidomide | | | | | | | | |
| Thromboembolism* | 8 | 2 | <1 | 11 | 3 | <1 | | |
| Neutropenia* | 33 | 18 | 5 | 31 | 18 | 6 | | |

^{*}Represents multiple MedDRA preferred terms.

Other infrequent AEs of any grade (median follow-up of 23 months)



| AE | IRd (N=361), % | Placebo-Rd (N=359), % |
|----------------------------|-------------------|--------------------------|
| Arrhythmias* | 16 | 15 |
| Hypertension | 6 | 5 |
| Hypertension crisis | <1 | 0 |
| Hypotension* | 6 | 6 |
| Heart failure* | 4 | 4 |
| Myocardial infarction* | 1 | 2 |
| Acute renal failure* | 9 | 11 |
| Liver impairment* | 7 | 6 |
| Interstitial lung disease* | 1 | 2 |
| Encephalopathy* | <1 | 1 |
| Events of special interest | • | |
| New primary malignancy*,† | 5 | 4 |

^{*}Represents multiple MedDRA preferred terms.

Moreau P et al. N Engl J Med 2016;374(17).

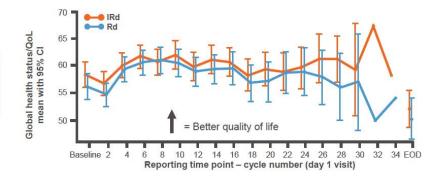
Rd = NINLARO (ixazomib) + Revlimid (lenalidomide) + dexamethasone
Rd = Revlimid (lenalidomide) + dexamethasone

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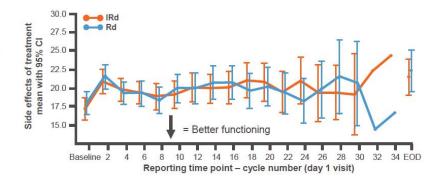
TOURMALINE-MM1: Quality of life maintained with IRd vs placebo-Rd



EORTC-QLQ-C30 Mean global health status score



MY-20 Mean side effects of treatment score



[†]Includes treatment-emergent AEs and new primary malignancies reported during follow-up period

Ixazomib, the first oral proteasome inhibitor, significantly extends PFS in TOURMALINE-MM1



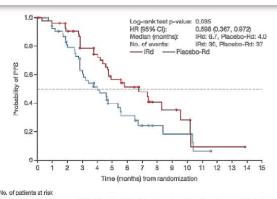
- TOURMALINE-MM1 is a uniquely robust placebo-controlled study of IRd compared to Rd
 - This data was recently published in the New England Journal of Medicine and demonstrated a significant extension in progression-free survival and a favorable benefit-risk profile for patients with relapsed and/or refractory multiple myeloma (R/R MM)
- IRd provided patients with relapsed and/or refractory MM with:
 - A significant and clinically meaningful improvement in PFS
 - Significantly improved time to progression (TTP) and response rates
 - Improved PFS in high-risk patients
- Ixazomib added limited additional toxicity to the placebo regimen
 - Low rates of peripheral neuropathy and no cardiovascular, pulmonary, or renal signals
 - Patient-reported quality of life was maintained
- The all-oral regimen of IRd provides an additional therapeutic option for patients with R/R MM

IRd = NINLARO (ixazomib) + Revlimid (lenalidomide) + dexamethasone Rd = Revlimid (lenalidomide) + dexamethasone

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TOURMALINE-MM1 China continuation







| | | (mc | onths) | | | |
|--------------------------------------|--|---|--|----------|-------------------------|--|
| Variable | Subgroup | IRd | Placebo-Rd | - | HR | 95% CI |
| All subjects | All (n=115) | 30;57/6.7 | 37;58 / 4.0 | — | 0.598 | (0.367, 0.972) |
| Age category | <65 (n=83) >65-75 (n=28) >75 (n=4) | 22;42 / 5.8 8;14 / 7.3 0;1 / NE | 26.41 / 4.0 10.14 / 3.7 1.3 / 6.7 | | 0.546 0.855 NE | (0.308, 0.967) (0.317, 2.305) |
| ISS stage at screening | I or II (n=106) III (n=9) | 25;51 / 7.3 5;6 / 3.9 | 35:55 / 3.7 2:3 / 5.4 | - | 0.539 | (0,320, 0.906) |
| Prior therapies derived | 1 (n=51) 2 (n=44) 3 (n=20) | 15;25 / 7.3 9;20 / 6.7 6;12 / 5.8 | 13,26 / 4.7 18,24 / 3.7 F 6,8 /4.3 | | 0.847 0.370 0.702 | (0.400, 1.789) (0.164, 0.834) (0.212, 2.319) |
| Prior immunomodulatory therapy | Exposed (n=99) Naïve (n=16) | 28;52 / 6.7 2;5 / NE | 31;47 / 3.2 6;11 / 5.5 | - | 0.553 0.768 | (0.328, 0.931) (0.148, 3.964) |
| Prior bortezomib therapy | Exposed (n=69) Naive (n=46) | 19;34 / 7.3 11;23 / 4.7 | 26:35 / 3.0 11:23 / 5.5 | | 0.402 0.974 | (0.219, 0.737) (0.413, 2.296) |
| Relapsed or refractory | Relapsed (n=28) Refractory (n=61) Ref & Rel (n=26) | 7;15 / 4.6 15;28 / 5.6 8;14 / 6.7 | 9;13 / 3.2 18;33 / 4.7 10;12 / 3.7 | | 0.519 0.715 0.509 | (0.186, 1.449) (0.358, 1.429) (0.200, 1.297) |

- Same randomized study design of IRd versus placebo-Rd
- Same eligibility criteria and methodology
- N = 115 (China only)
- Significant improvement in PFS
 - Supported by secondary endpoint improvement in TTP and response
- Ixazomib added limited additional toxicity to placebo regimen
- Conclusion: consistent positive treatment effect in Chinese patients



Overview of Takeda Oncology

ADCETRIS (brentuximab vedotin)

NINLARO (ixazomib)

NINLARO development

Multiple myeloma treatment paradigm

Presented by Brian DeSchuytner

NINLARO action plan

Summary



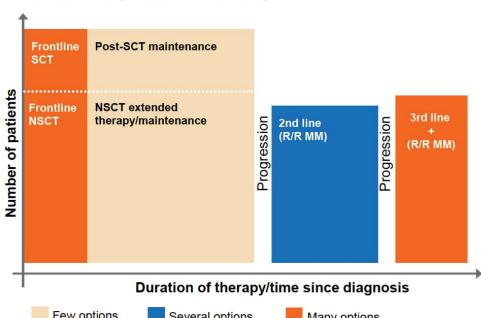
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The relapsing nature of myeloma is reflected in distinct treatment settings representing up to 3 million patient months primarily in developed markets



The Global Myeloma Market Map



NINLARO registrations in emerging markets to grow this opportunity

Pursuing aggressive

Myeloma Market

primarily derived from developed markets

due to under-diagnosis

in emerging markets

3M patient months

further

Few options

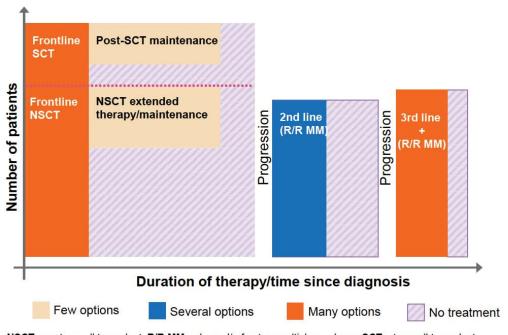
Several options

Many options

NSCT=no stem cell transplant; R/R MM=relapsed/refractory multiple myeloma; SCT=stem cell transplant.



The Global Myeloma Market Map



NSCT = no stem cell transplant; R/R MM = relapsed/refractory multiple myeloma; SCT = stem cell transplant.

49 Source: Lexidyne epidemiology and chart reviews

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So what do MM patients need?





SAFER

 Minimal toxicities, especially peripheral neuropathy, cardiovascular events, secondary malignancies

SIMPLER

- Limit burden on patients and caregivers
- Infrequent dosing

SUSTAINABLE

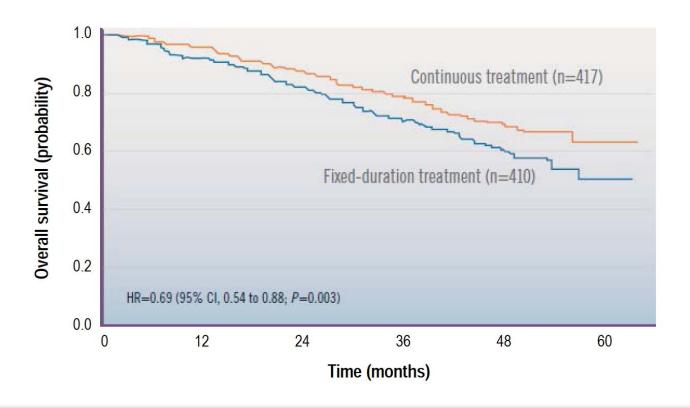
- Ability to stay on therapy
- · Maintain quality of life

MORE EFFECTIVE

- Improve PFS (and ultimately OS)
- Especially in high-risk and difficultto-treat patients

Continuous treatment has shown improved overall survival vs. fixed-duration treatment



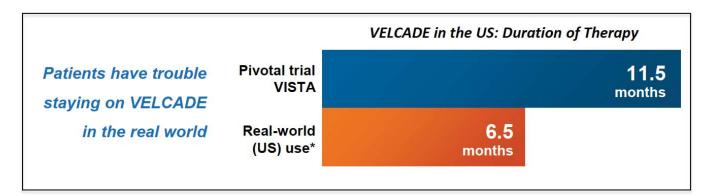


Adapted from Palumbo et al, J Clin Oncol, 2015.

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But continuous treatment is difficult to achieve with current proteasome inhibitors





Reasons for discontinuation include:

- Peripheral neuropathy
- Inconvenience
- Treatment fatigue

NINLARO can deliver sustainable treatment for multiple myeloma patients



| UNIQUE | The 1 st and only oral proteasome inhibitor |
|----------------------|--|
| EFFECTIVE | ~6 month PFS improvement in a real-world representative population Efficacy in high risk patients |
| MANAGEABLE SAFETY | Low neuropathy and mostly low gradeNo cardiovascular safety signal |
| SIMPLE | Replace twice weekly injections at hospital with one capsule, once weekly at home |
| COMPETITIVELY PRICED | Competitive vs. newly introduced agentsAccess solutions |

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Sustainable efficacy from a proteasome inhibitor can offer new opportunities





Improved duration of therapy - 12+ months PI therapy New settings of care • Where earlier generation PIs are not currently used • An alternative PI option • After treatment with another PI • As a combination partner for novel agents - More benefits for more myeloma patients



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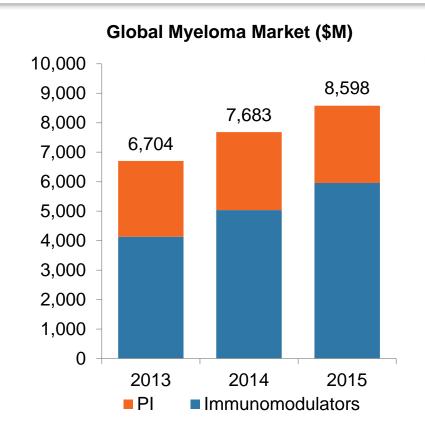


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The current myeloma market is approaching \$10B





Growth drivers

Introduction of novel therapies

Longer treatment durations that can result in improved efficacy

Newer treatment paradigms (e.g., maintenance therapy)

Treatment combinations with novel agents (e.g., triplet therapy)

We can capture this market opportunity by focusing on three segments of the market



Market for **Proteasome Inhibitors** in Myeloma

Market for **Immunomodulators** in Myeloma

Market for Early Discontinuation / Mid-treatment **Addition**

Total

\$2.7 B

\$5.9 B

Missing from Market \$8.5 B

- · As an oral and sustainable alternative to earlier generation Pls
- As an triplet alternative to lenalidomide doublets
- As a way to sustain therapy despite efficacy, toxicity or convenience issues encountered with other agents

Note: Proteasome inh bitors and immunomodulators have indications outside of myeloma so global sales of products are higher than the global myeloma market

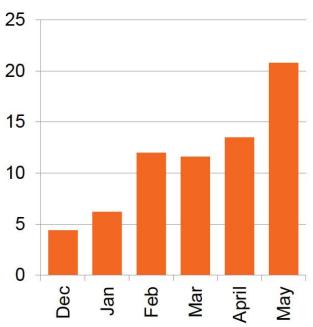
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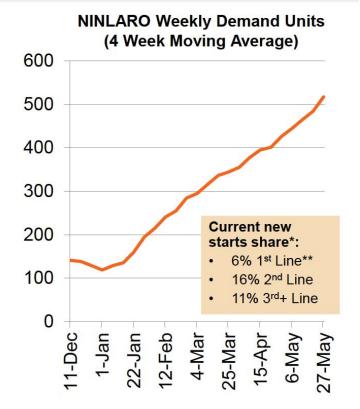
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NINLARO is off to a great start in the U.S. since December launch









* Intrinsig IntelliView April 2016; **unpromoted

To achieve the equivalent of \$1B of VELCADE revenues, NINLARO in the U.S. must only achieve half of current VELCADE share



| | U.S. New Patient Starts | Share of Patients | Patients Treated | Length of Therapy (Months) | Patient Months Delivered |
|------------------------|-------------------------------|----------------------|---------------------|----------------------------------|--------------------------------|
| VELCADE | | | | | |
| 1 st Line | 26,000 | 60% | 15,600 | 6 | 93,600 |
| 2 nd Line | 17,000 | 40% | 6,800 | 6 | 40,800 |
| 3 rd Line + | 16,000 | 20% | 3,200 | 6 | 19,200 |
| Total | 59,000 | 43% | 25,600 | 6 | 153,600 |

| NINLARO | ILLUSTRATIVE FY2018 \$1B U.S. SCENARIO | | | | | | | |
|------------------------|--|-----|--------|----|---------|--|--|--|
| 1 st Line | 26,000 | 10% | 2,600 | 18 | 46,800 | | | |
| 2 nd Line | 17,000 | 30% | 5,100 | 12 | 61,200 | | | |
| 3 rd Line + | 16,000 | 25% | 4,000 | 12 | 48,000 | | | |
| Total | 59,000 | 20% | 11,700 | 13 | 156,000 | | | |

Growth of NINLARO and the end of amortization of intangible assets related to VELCADE is expected to offset the VELCADE US API patent expiry

Additional expected events include NINLARO approval in newly diagnosed MM and NINLARO approval in maintenance settings not accessible with VELCADE

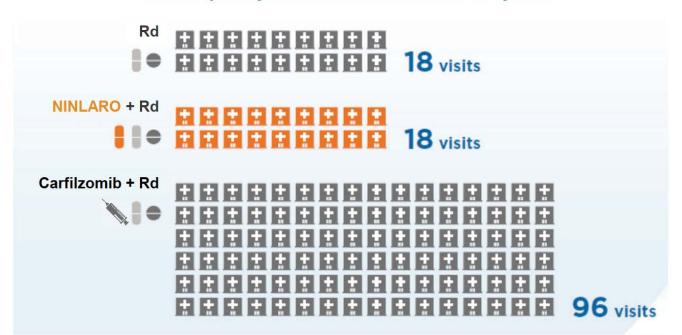
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NINLARO is simple and practical and can give more time to patients and their families



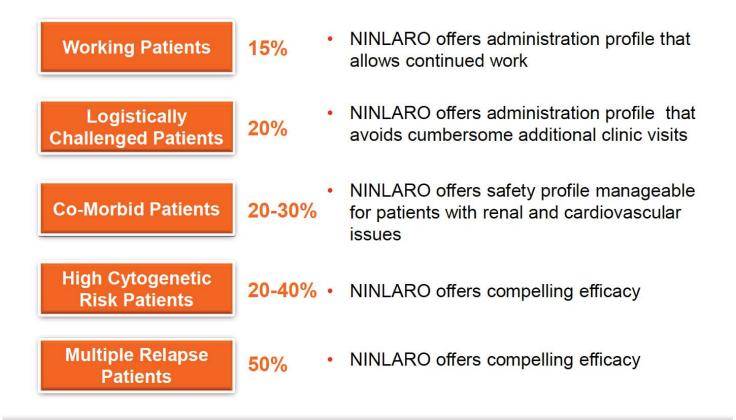
Minimum number of hospital visits required for administration/collection of multiple myeloma treatments over 18 cycles



Based on the Carfilzomib U.S. Prescr bing Information.

Within our indication we know which patients NINLARO can help





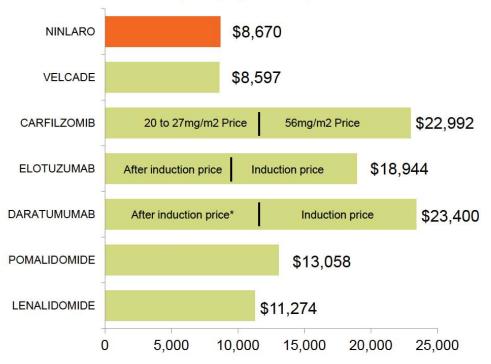
Takeda Oncology Awareness Trial Usage Survey; Lexidyne

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Compared to other agents, we have priced NINLARO so as not to increase the overall monthly cost



U.S. PUBLISHED GROSS PRICES PER 28-DAY (USD, April 2016)

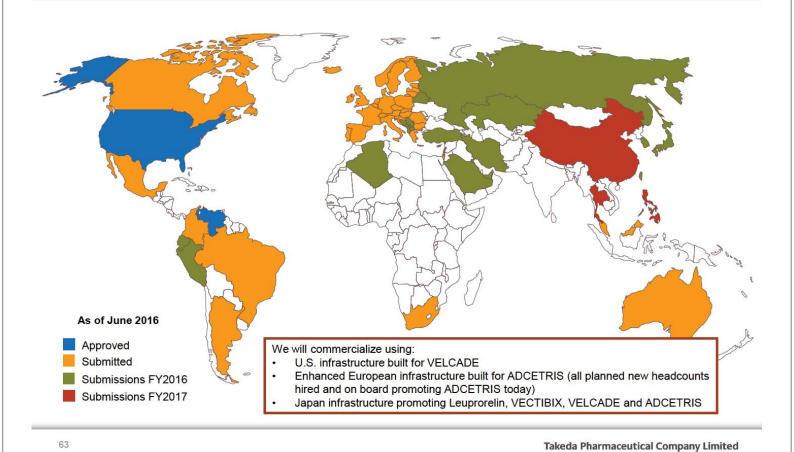


Our pricing approach is based on:

- Understanding of patient need
- Removing barriers to adoption and facilitating conversion to NINLARO
- Confidence in NINLARO's potential as continuous therapy

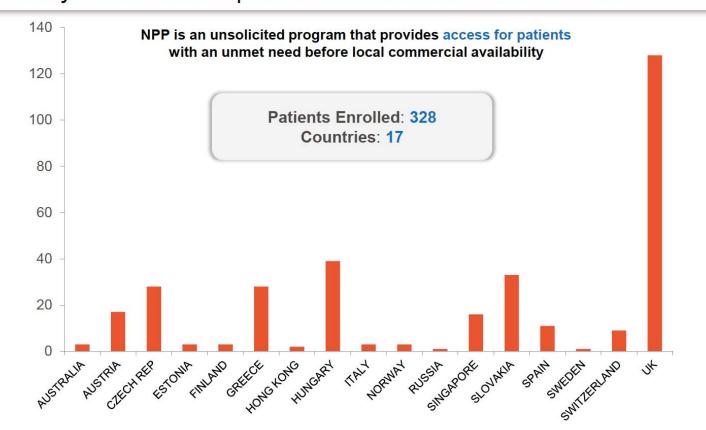
NINLARO global footprint: 15 submissions/approvals to date using an ASAP/ As-Wide-As-Possible strategy





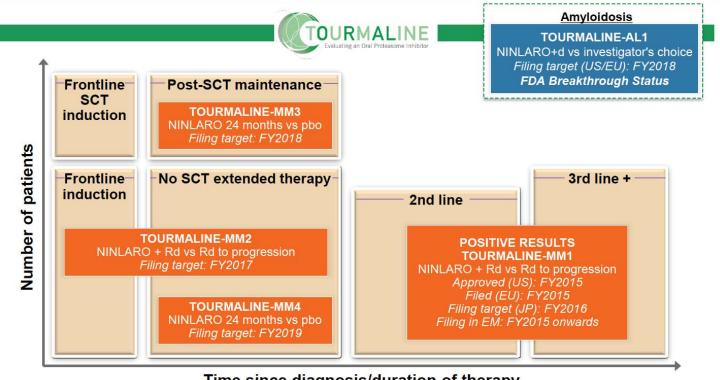
Ixazomib Named Patient Program (NPP) has provided early access to 328 patients across 17 countries to date*





The TOURMALINE-MM1 Study is the first of a most comprehensive myeloma development program





Time since diagnosis/duration of therapy

Rd = Revlimid (lenalidomide) + dexamethasone pbo = placebo

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IISR program with a global footprint explores the benefit of NINLARO to patients



- >80 active and approved studies, planned to enroll over 7,000 patients over next five years
- Including 14 countries and key research groups such as ALLIANCE, IFM, EMN, HOVON, PETHEMA, MMRF, etc
- Researching NINLARO in MM in various combinations and patient populations and in additional indications besides MM
- Publications from IISRs:
 - Kumar et, al Blood Cancer Journal
 - ASH 2015: 4 presentations (1 oral)
 - ASCO 2016: 2 oral presentations on ixazomib in non revlimid combinations



Published April 2016

The New England Journal of Medicine

Congresses

ASH 2015: 15 presentations, 4 orals, 11 posters

ASCO 2016: 8 abstracts accepted, 2 oral presentations

EHA 2016: 14 abstracts accepted

Manuscripts already available in:

Blood

The Lancet Oncology

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INSIGHT MM:





- Treatment complexity in MM is increasing with more available drugs and exponentially more combinations. In this environment, data on real life outcomes across the world, currently very limited, are needed by MM community
- Target accrual 5000 patients worldwide, in 15 countries
 - Brazil, France, Germany, UK, U.S., Belgium, Greece, Israel, Italy, Spain, China, Colombia, Mexico, Taiwan, Turkey
- Global Steering Committee (12 U.S. & 12 global representatives)
- Collaborative approach with Steering Committee Members, Investigators and the larger MM Community
 - Steering Committee to drive data analysis and publications
 - Open access to larger MM community after embargo period
 - Potential collaborations with medical societies including Japan Hematology
- Patient Focused
 - Patient member of the Steering Committee
 - Engagement with Patient Opinion Leaders
 - Optimize study experience for patient participants through the communication and return of information they consider valuable

NINLARO can deliver sustainable treatment for multiple myeloma patients



| UNIQUE | The 1 st and only oral proteasome inhibitor | | | | |
|----------------------|--|--|--|--|--|
| EFFECTIVE | ~6 month PFS improvement in a real-world representative population Efficacy in high risk patients | | | | |
| MANAGEABLE SAFETY | Low neuropathy and mostly low gradeNo cardiovascular safety signal | | | | |
| SIMPLE | Replace twice weekly injections at hospital with one capsule, once weekly at home | | | | |
| COMPETITIVELY PRICED | Competitive vs. newly introduced agentsAccess solutions | | | | |

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NINLARO is transformative for myeloma patients and for Takeda



| VELCADE Peak Global Revenues | \$2.7B |
|---|----------------|
| Price versus VELCADE (per month) | x about parity |
| Length of therapy from 5 - 6 months to 12+ months | x 2 to 3 |
| Relative share to current VELCADE share | x 0.5 |
| Maintenance | +\$1B |
| NINLARO global potential | >\$3B |

With modest penetration across treatment settings, NINLARO has potential greater than \$3B



An Illustrative >\$3 B Scenario

| | R/RMM 3rd+ Line | R/RMM 2nd Line | NDMM 1st Line | R/R Amyloidosis | Post-SCT Maint | Non-SCT Maint | Total |
|---|--------------------|-------------------|------------------|--------------------|-------------------|------------------|---------|
| Launch Year | FY2015 | FY2015 | FY2018 | FY2018 | FY2019 | FY2020 | |
| Total eligible patients Patient share (%) | 89,000 15% | 85,000 15% | 102,000 10% | 13,000 15% | 12,400 10% | 47,000 0% | |
| Patients | 13,350 | 12,750 | 10,200 | 1,950 | 1,240 | - | |
| Duration (Months) | 10 | 12 | 18 | 10 | 18 | 0 | |
| Patient months | 133,500 | 153,000 | 183,600 | 19,500 | 22,320 | | |
| Net Sales Range | | | | | | | |
| (\$M) from | \$694 | \$796 | \$955 | \$101 | \$116 | \$- | \$2,663 |
| to | \$926 | \$1,061 | \$1,273 | \$135 | \$155 | \$- | \$3,551 |

Tak

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Agenda

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Summary

Our patients are at the center of everything we do









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Takeda Oncology is well positioned for global success



- Committed to our vision and to the patient community with a well defined MAXIMIZE-PRIORITIZE-COLLABORATE strategy
 - Proven global commercial infrastructure and resources
 - Global Oncology Business Unit balances global alignment and local needs for customer focus, increased agility and commitment.
- NINLARO and ADCETRIS are two future potential blockbusters
 - NINLARO
 - Unique profile to help transform myeloma into a chronic disease: it is actively being developed in a comprehensive global registration lifecycle plan supported by a robust set of IISRs including cooperative group studies
 - Off to a strong start in the U.S., and by 2017 will be approved or filed across most of the globe. We are confident in the data and we believe we will succeed after re-examination in Europe

ADCETRIS

- Already a standard of care in its indications and has shown unprecedented survival outcomes
- Actively developed in a comprehensive lifecycle plan which, we are hopeful,
 will demonstrate its curative potential and substantially increase its revenues



We Aspire to Cure Cancer



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