oncopeptides

Ygalo® - Targeted Alkylator for the Treatment of Myeloma

Pareto Healthcare Conference: September 7th, 2017

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Investment Highlights

Oncopeptides is a late-stage clinical development company focused on new cancer therapies

Developing Ygalo®: a next-generation broad spectrum agent for late stage RRMM

- Builds on best in class alkylator drug
- Overcomes resistance mechanisms that impact current therapies (IMiDs)
- Data so far supports superior efficacy over current standard of care

Significant and growing addressable patient population

- Relapse is inevitable. New targeted therapies grow the market opportunity
- Prognosis is poor, with limited options available in late-stage disease
- Ygalo® addressing a $1.6B[1] market with double digit % growth

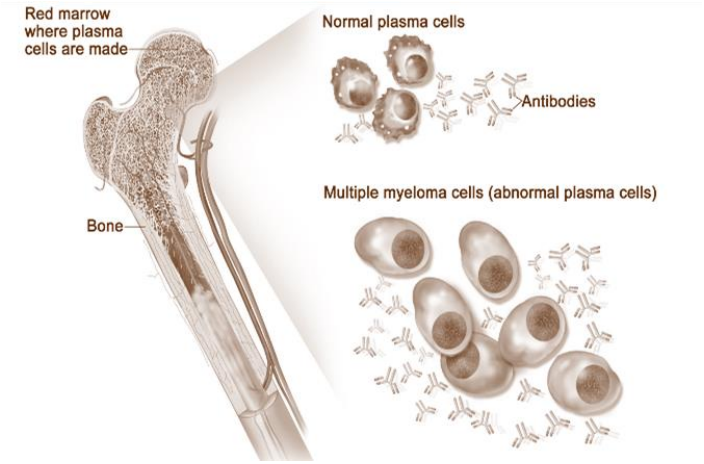
Fully funded pivotal Phase 3 trial underway; broad development program

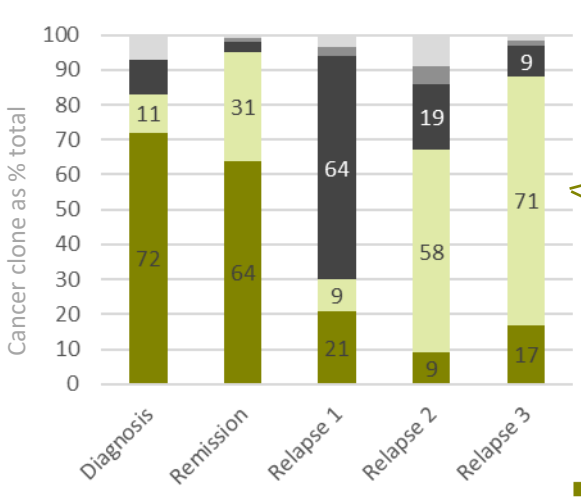
- Agreement with FDA (SPA) and EMA on clinical trial design
- Orphan drug designation in EU and US
- Multiple paths to approval de-risk the development pathway

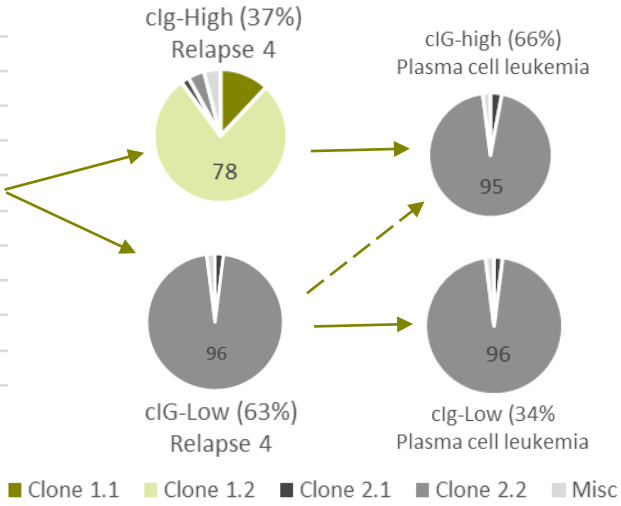
RRMM: relapsed refractory multiple myeloma. 1. Source

Multiple Myeloma is a hematologic cancer with no cure

MM is a disease that is constantly evolving and becoming refractory / resistant to therapy is inevitable







Broad Specturm agents are the bedrock of therapy

Modality	Pharmaceutical drugs	Myeloma Sales 2016	% US pts treated 2016
Broad Spectrum Agents			
Alylating agents	Bendamustine, cyclophosphamide, melphalan	>10bn USD	93.9%
IMiDs	*Revlimid* , *Pomalyst* , thalidomide		
Proteasome inhibitors	*Velcade* , *Kyprolis* , *Ninlaro*		
Steroids	Dexamethasone, prednisone		
Targeted Agents			
Anti-CD38	*Darzalez*	>0.7bn USD	9.2%
Anti-SLAMF7	*Empliciti*		

Late stage drugs limited: POM shares resistance with REV

ANCHOR OCEAN HORIZON

Newly diagnosed | Relapsed | Relapsed / refractory | Late-stage R/R

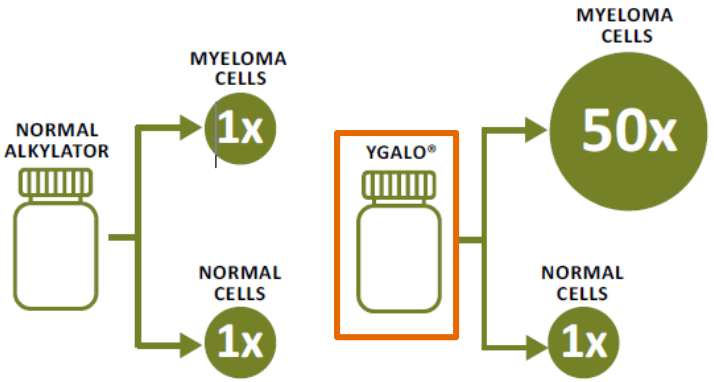
ASCT IF POSSIBLE (~45%) or TRIPLE COMBO THERAPY // DOUBLE COMBO THERAPY

Revlimid (lenalidomide) capsules
VELCADE (bortezomib) FOR INJECTION
Kyprolis (carfilzomib) for injection
Pomalyst (pomalidomide) capsules
DARZALEX (daratumumab) injection for intravenous infusion 100 mg/5 mL, 400 mg/20 mL

RRMM: relapsed refractory multiple myeloma, ASCT: autologous stem cell transplant

Positive Phase 2 data supports superiority over SOC

Targeted broad spectrum mechanism underpins efficacy



- 50% better Overall Survival
- 26% better Progression Free Survival (by hazard ratio)
- 28%-35% better objective tumour response rates (ORR and CBR)
- Better tolerated by the patients

Phase 2 data: Comparison with data from patients that have not recently failed on lenalidomide

Strong foundation for Phase III program design where Ygalo® will be directly compared to current standard of care

Strong Phase 2 Results Presented at EHA

Table 3. Overall Response Rate (Efficacy evaluable and all treated patients)

	n	VGPR	PR	MR	SD	PD	ORR	CBR
Evaluable (≥2 doses of melflufen)	30	4	8	7	10	1	40%	63%
All treated (ITT)	40	4	8	8	11	9	30%	50%

Multiple potential paths to market approval

Clinical development program fully characterizes Ygalo® in multiple myeloma

Addressable Patient population

HORIZON

Quad- and Penta-Refractory

TREATMENT	ORR	CBR	MEDIAN PFS	MEDIAN DOR	MEDIAN OS
Selinexor + dexamethasone	21%	32%	2.1 months	5.0 months	9.3 months

Note: Selinexor is not market approved.
Source: Blood 2016 128:491;

- Patients who have failed other therapies
- Single- arm Phase 2 trial ongoing, **data due mid 2018**
- Supports OCEAN to receive market approval
- If data exceptionally convincing, potential for conditional marketing authorization

OCEAN

Late-Stage Relapsed Refractory

TREATMENT	ORR	CBR	MEDIAN PFS	MEDIAN DOR	MEDIAN OS
Pomalidomide + dexamethasone	24%	NR	3.6 months	7.0 months	12.4 months
Carfilzomib	23%	37%	3.7 months	7.8 months	15.6 months
Daratumumab	29%	34%	3.7 months	7.4 months	17.5 months
Ygalo® + dexamethasone	30%	50%	4.3 months	7.7 months	18.2 months

Note: NR=Not Reported. Ygalo® is not market approved.
Source: FDA Label.

- Patients refractory to lenolidomide
- Phase III trial ongoing, **topline data due Q3 2019**
- Superiority study vs. pomalidomide (though superiority is/may not be needed for approval)

ANCHOR

Relapsed and Relapsed Refractory

TREATMENT	ORR	MEDIAN PFS	MEDIAN DOR
Carfilzomib + lenalidomide + dexamethasone	87%	26.3 months	28.6 months
Lenalidomide + dexamethasone	67%	17.6 months	21.2 months

Note: Representative examples of recent clinical trials (triple and double combination therapy).
Source: FDA Label.

- Evaluating potential for earlier line use in combination with other agents
- Phase 1/2 trial ongoing, **data due 2019**
- Could significantly expand market opportunity

Corporate Information

Management Team

Jakob Lindberg, Med Lic |CEO
Birgitta Ståhl, MSc, MBA | CFO
Elisabeth Augustsson, MSc | Head of Regulatory Affairs
Paula Boultbee | Chief Commercial Officer
Johan Harmenberg, MD, PhD | Chief Medical Officer
Fredrik Lehmann, PhD | Head of CMC
Eva Nordström, MSc Pharm | VP, Head of Clinical Dev.
Rein Piir | Head of IR

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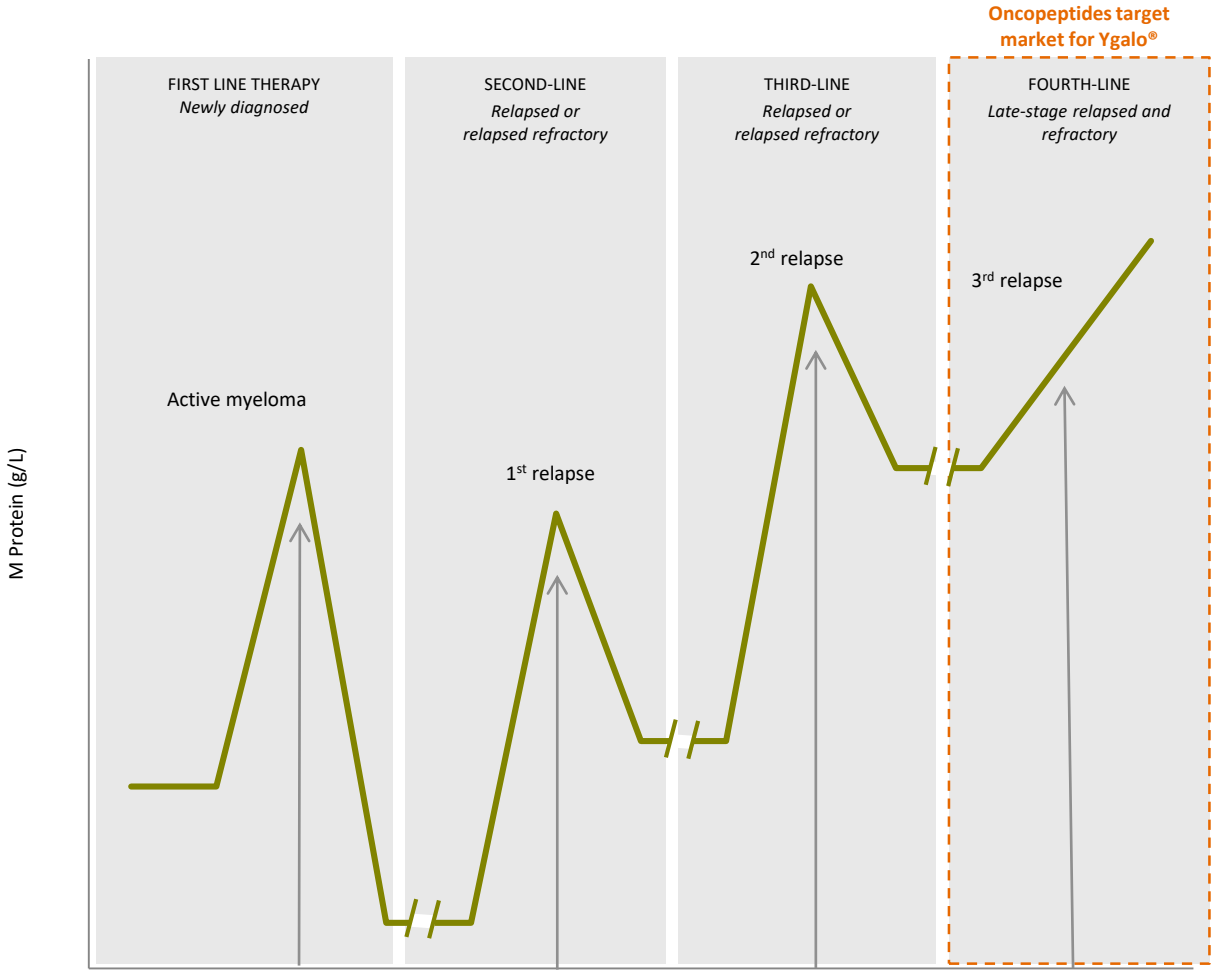
All patients become resistant to treatment and relapse into disease progression over time



Source: American Society of Clinical Oncology, GlobalData, company information

Limited number of treatment options for late-stage RRMM patients despite advances in treatment of early-stage MM

Lines of therapy throughout the disease stages[1)]

Newly diagnosed — Relapsed — Relapsed and refractory — Late-stage relapsed and refractory

TRIPLE COMBINATION THERAPY AND BONE MARROW TRANSPLANTATION

Revlimid (lenalidomide) capsules

VELCADE (bortezomib) FOR INJECTION

Kyprolis (carfilzomib) for injection

DARZALEX (daratumumab) injection for intravenous infusion 100 mg/5 mL, 400 mg/20 mL

IF POSSIBLE: AUTOLOGOUS STEM CELL TRANSPLANT (~45% of patients)

WHEN THE **DISEASE RETURNS WITHIN ROUGHLY 6 MONTHS AFTER STARTING LAST LINE OF THERAPY**, THE PATIENT IS CLASSIFIED AS **"LATE-STAGE RELAPSED AND REFRACTORY"**

DOUBLE COMBINATION THERAPY (TRIPLE IF POSSIBLE)

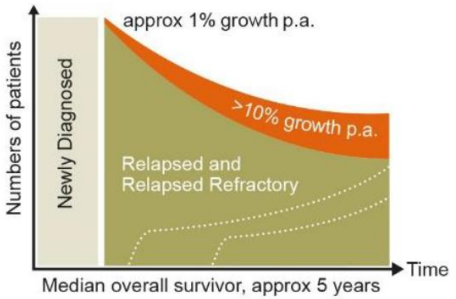
Pomalyst (pomalidomide) capsules

Limited number of treatment options for late-stage RRMM patients –
Novel treatment options are necessary and demanded by patients and regulatory bodies

Source: GlobalData. Steroids excluded (almost 100% patient share)

1) Including those with an estimated market share above 5% in respective stages in the US during 2016

The medical need in treatment resistant patients is significant and growing



ANCHOR

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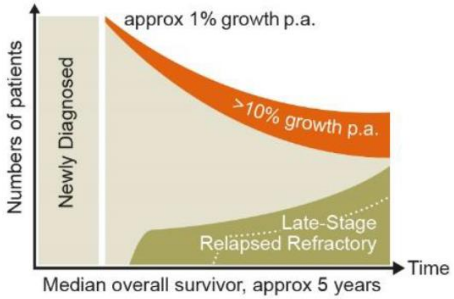

OCEAN

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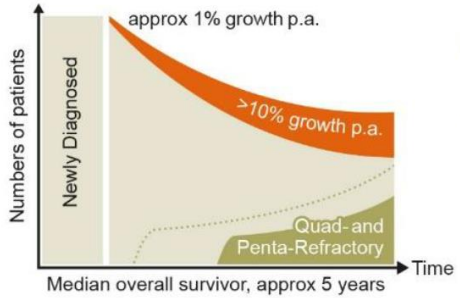
Source: FDA Label.



HORIZON

Quad- and Penta-Refractory

TREATMENT	ORR	CBR	MEDIAN PFS	MEDIAN DOR	MEDIAN OS
Selinexor + dexamethasone	21%	32%	2.1 months	5.0 months	9.3 months

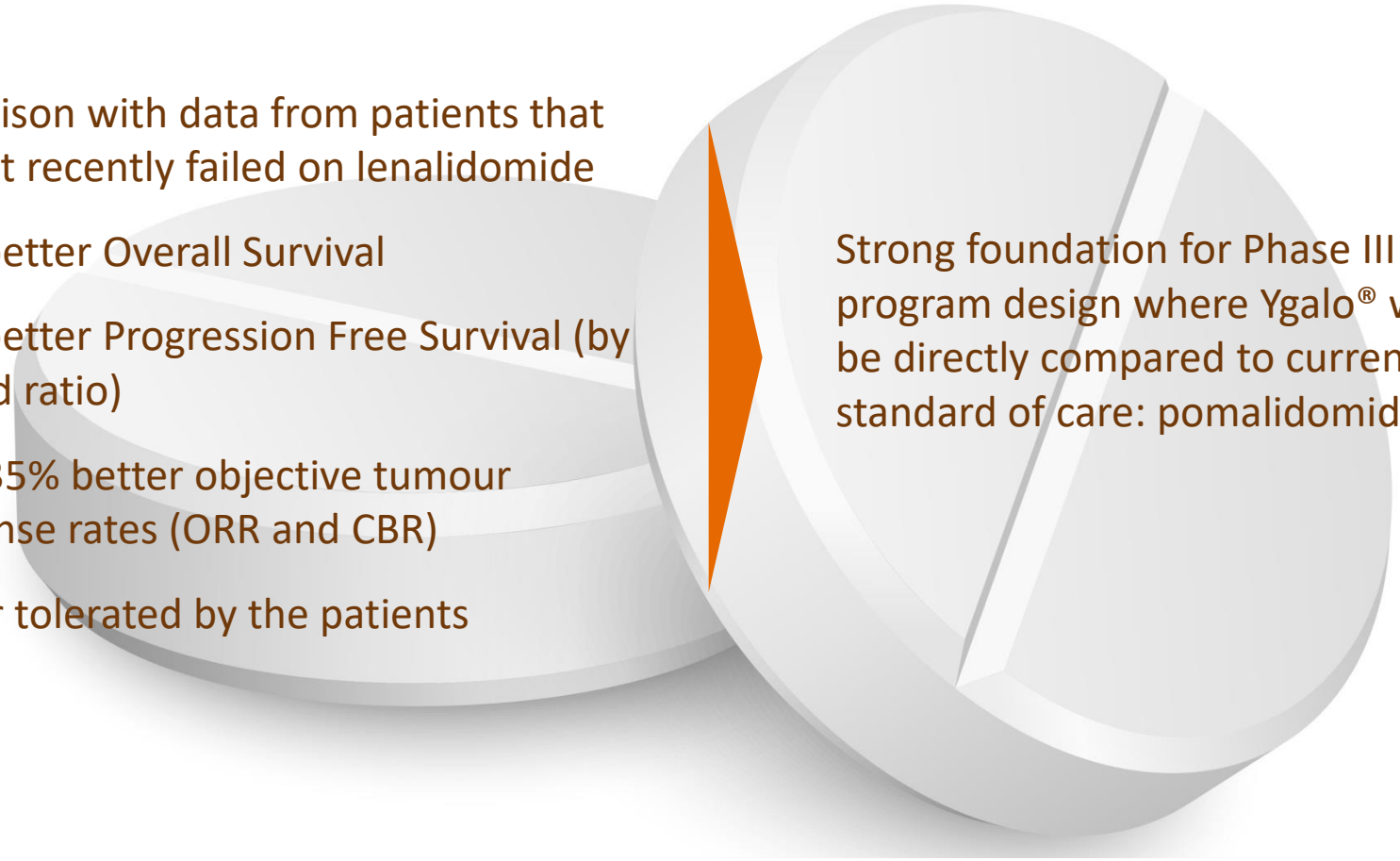
Note: Selinexor is not market approved.
Source: Blood 2016 128:491;

Significant reduction in efficacy after resistance development

Our current Phase II data supports superiority over standard of care in late-stage RRMM

Comparison with data from patients that have not recently failed on lenalidomide

- 50% better Overall Survival
- 26% better Progression Free Survival (by hazard ratio)
- 28%-35% better objective tumour response rates (ORR and CBR)
- Better tolerated by the patients



Strong foundation for Phase III program design where Ygalo® will be directly compared to current standard of care: pomalidomide

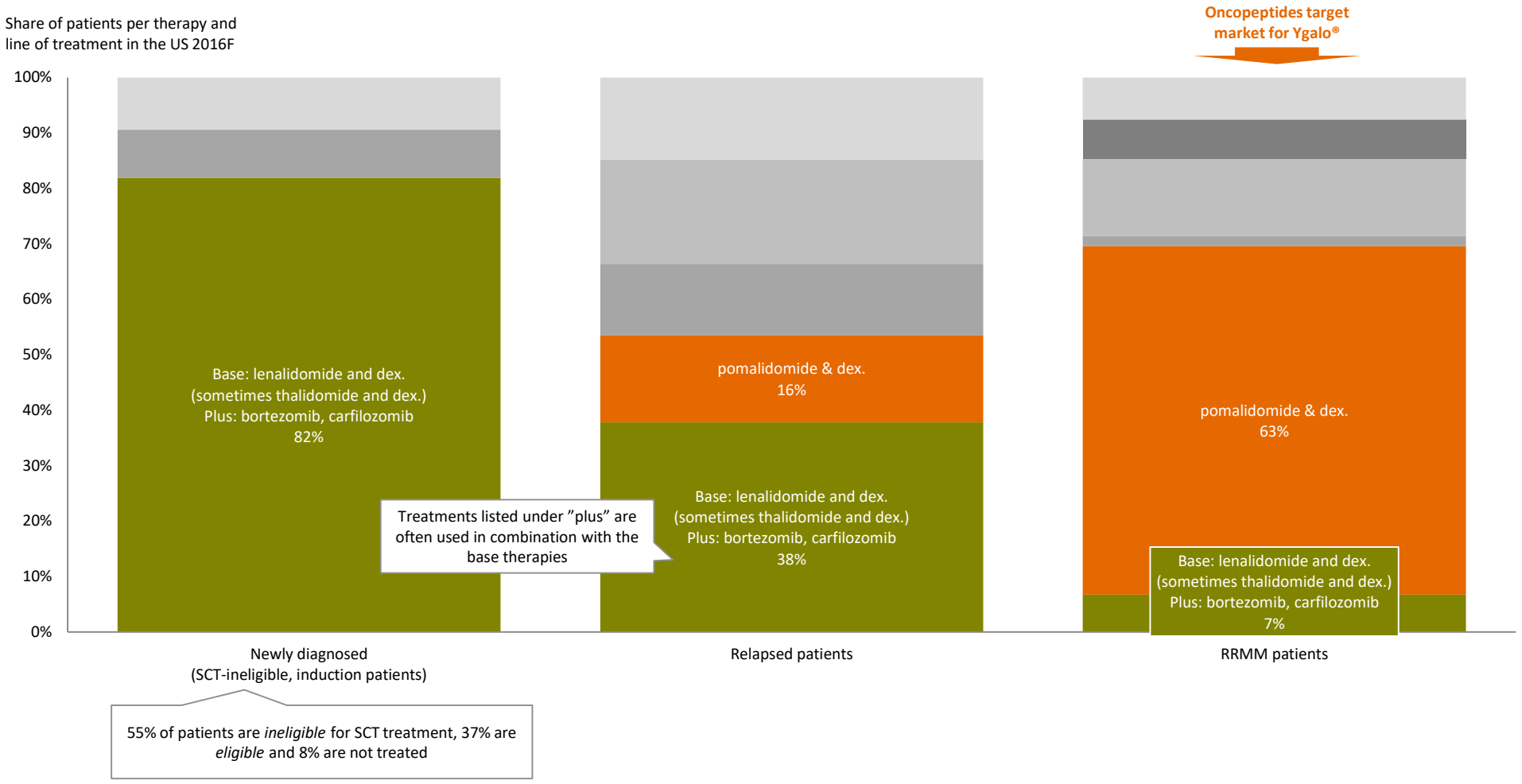
Source:

1) Pomalidomide plus low-dose dexamethasone versus high-dose dexamethasone alone for patients with relapsed and refractory multiple myeloma (MM-003): a randomised, open-label, phase 3 trial (N=302)
2) Company information (Phase II data, ITT population N=40)
3) Pomalidomide (Pomalyst®) EMA label
4) Pomalidomide (Pomalyst®) FDA label

Note: Response rate defined as the share of patients that had ≥50% tumor reduction

Continuous IMiD backbone is standard of care – lenalidomide in newly diagnosed patients and pomalidomide in late-stage patients

Simplified overview of treatments used in different phases of multiple myeloma excluding stem cell transplantation

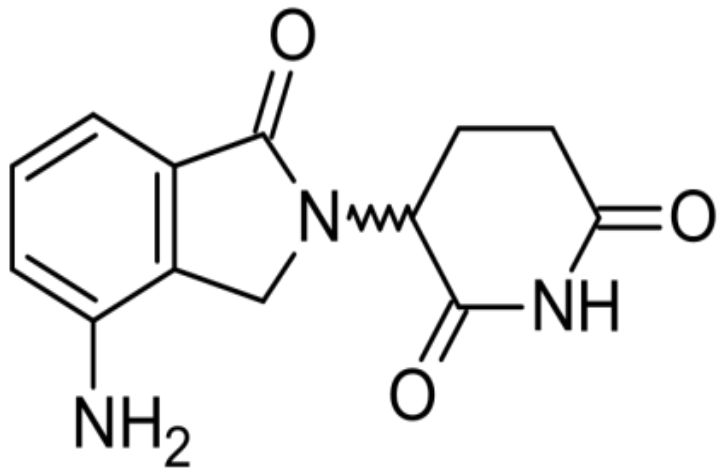


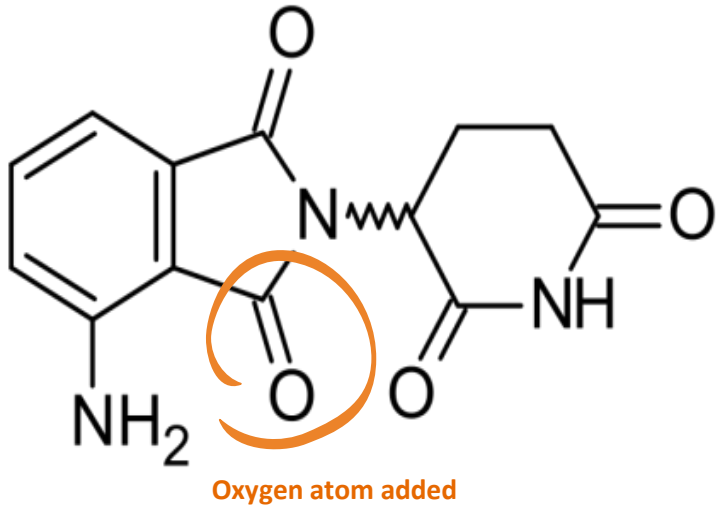
Source: GlobalData. Sources used by GlobalData in their estimation of patient shares per treatment: interviews with 10 KOLs and 90 prescribers across the 8 covered markets. Estimated shares of patients in the US 2016. Maintenance and consolidation treatment excluded (lenalidomide dominant).

Lenalidomide and pomalidomide originate from the same drug library…

Similar molecular structure from same library

LENALIDOMIDE	POMALIDOMIDE
Revlimid® (lenalidomide) capsules	Pomalyst® (pomalidomide) capsules





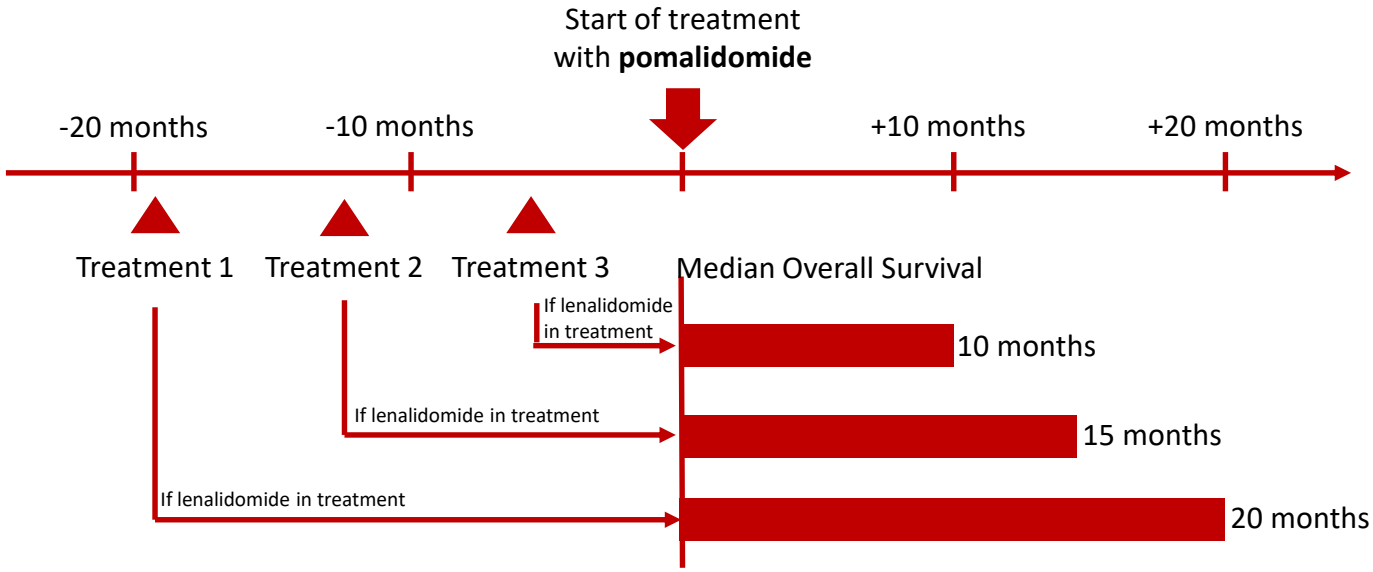
Oxygen atom added

Cross-resistance between lenalidomide and pomalidomide up for discussion based on pre-clinical data as well as FDA and EMA scrutiny of investigator reported clinical data

Source: GlobalData

…and they seemlingy share resistance mechanism to a significant extent (ASH 2016)

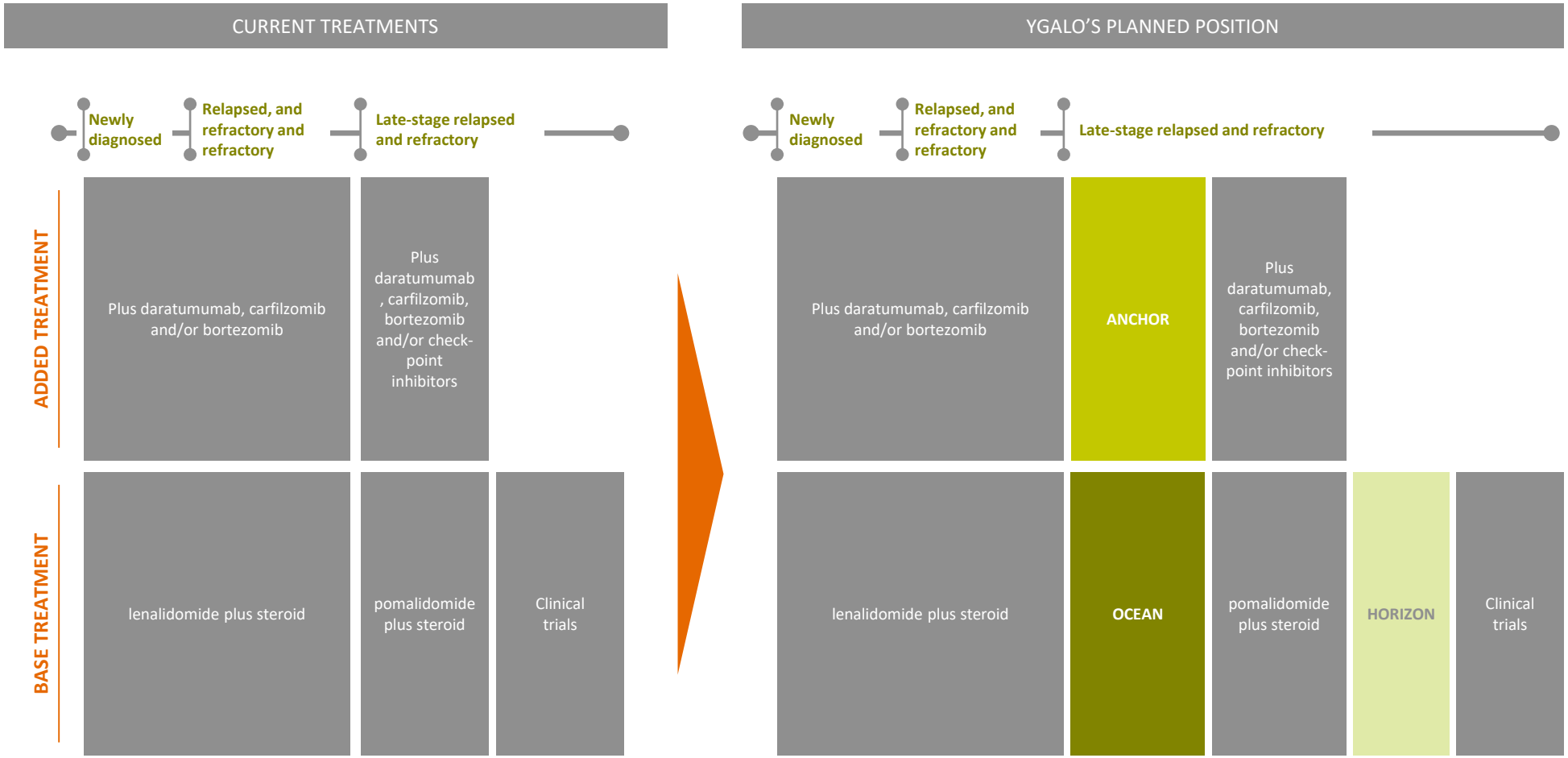
Dimopoulos research supporting an IMiD free period



Suggests significant resistance overlap between lenalidomide and pomalidomide

Source:
Pomalidomide with Low Dose Dexamethasone Is Effective Irrespective of Primary or Secondary Resistance to Lenalidomide but the IMiD-Free Interval Is Important (Dimopoulos et. al. ASH poster 2016)

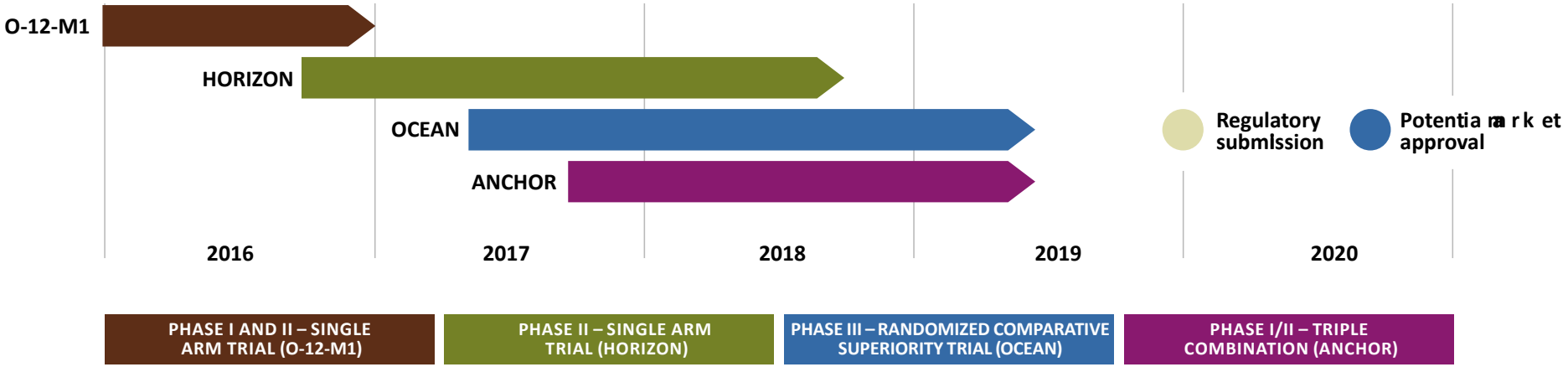
Clinical development program provides a complete data set to show how to use Ygalo® in late-stage RRMM



Full characterization of Ygalo® as a complement in late-stage RRMM will help increase physicians willingness to prescribe

Source: Company information
Note: Excludes bone marrow transplants

Time-line for our Clinical Development Program in late-stage RRMM



Regulatory approved and de-risked development program to characterize and maximize potential of Ygalo®

	Phase II – Single arm trial (HORIZON)	Phase I/II – Triple combination trial (ANCHOR)	Phase III – Randomized superiority trial (OCEAN)
QUESTION ASKED	How will Ygalo® work in patients that are without treatment options?	How do you dose Ygalo® with first- and second line treatment options?	How does Ygalo® compare to standard of care in late-stage RRMM patients
DESCRIPTION	Ygalo® + dexamethasone in pomalidomide and/or daratumumab refractory patients	Ygalo® + dexamethasone in combination with proteasome inhibitors or antibodies	Ygalo® + dexamethasone Vs pomalidomide + dexamethasone
RATIONALE	• Fully characterize Ygalo® in late-stage RRMM • Open up for conditional approval	• Show oncologist how to combine Ygalo® with products in earlier treatment lines • Open up for label extension trial	• Show oncologist which backbone to choose for patients that have failed on a lenalidomide backbone • Head to head superiority trial
ENDPOINT	• Primary endpoint: ORR • Secondary endpoints: PFS + OS	• Primary endpoint: ORR • Secondary endpoints: PFS + OS	• Primary endpoint: PFS • Secondary endpoints: OS
# OF PATIENTS	N = 40+40 patients	N = 32 patients per combination	N = 450 patients (1:1)
TIMETABLE	First patient in: Dec 2016 Last patient out: Q2/Q3 2018	First patient in: H2 2017 Last patient out: H1 2019	First patient in: Q2 2017 Last patient out: 2019

Source: Company information

Key Opinion Leaders and regulatory interactions provides strong foundation for planned pivotal development program

KOL network consisting of leading oncologists within the field of MM

SELECTION OF ONCOPEPTIDES CLINICAL ADVISORS AND INVESTIGATORS

Prof. Paul Richardson – Dana-Farber Cancer Institute, Harvard, USA

- Clinical program leader and Director of Clinical Research at Jerome Lipper Multiple Myeloma Center (Dana-Farber Cancer Institute)
- Lead clinical investigator for bortezomib
- Lead clinical investigator for pomalidomide

Prof. Pieter Sonneveld – Erasmus University, Netherlands

- Professor and Head of Hematology at Erasmus University
- President-elect European Hematology Association
- Founder European Hematology Network
- Scientific advisory member for International Myeloma Foundation, International Myeloma Working Group and International myeloma Society

KEY OPINION LEADERS WORKSHOPS

Jan-12: Boston, US

Dec-13: New Orleans, US

Jun-14: Stockholm, SE

Dec-14: San Francisco, US

Jan-15 to May-15: Individual Scientific Advice meetings with KOLs in EU and US

Sep-15: Rome, Italy

Dec-15: Orlando, US

Several regulatory interactions with meaningful authorities

FOOD AND DRUG ADMINISTRATION

Nov-12: Pre-IND type B meeting

Jan-13: IND application

Feb-13: IND approved

Mar-15: Orphan Drug Designation granted

Jun-15: Scientific Advice type C meeting

Dec-15: Scientific Advice type C meeting

Apr-16: Scientific Advice type C meeting

Jun-16: End of Phase II meeting

Jul-16: Application for exemption to conduct pediatric development under Pediatric Research Equity Act

Aug-16: Special Protocol Assessment Agreement Letter

NATIONAL AUTHORITIES (MHRA & SMPA)

May-04: Scientific Advice meeting with Swedish MPA

Feb-06: First phase I study application granted by Swedish MPA

Jan-13 to Dec-13: Permission granted to conduct clinical trials in DK, NL and IT

Apr-13: Phase I/II study application granted by Swedish MPA

May-14: Scientific Advice meeting with Swedish MPA

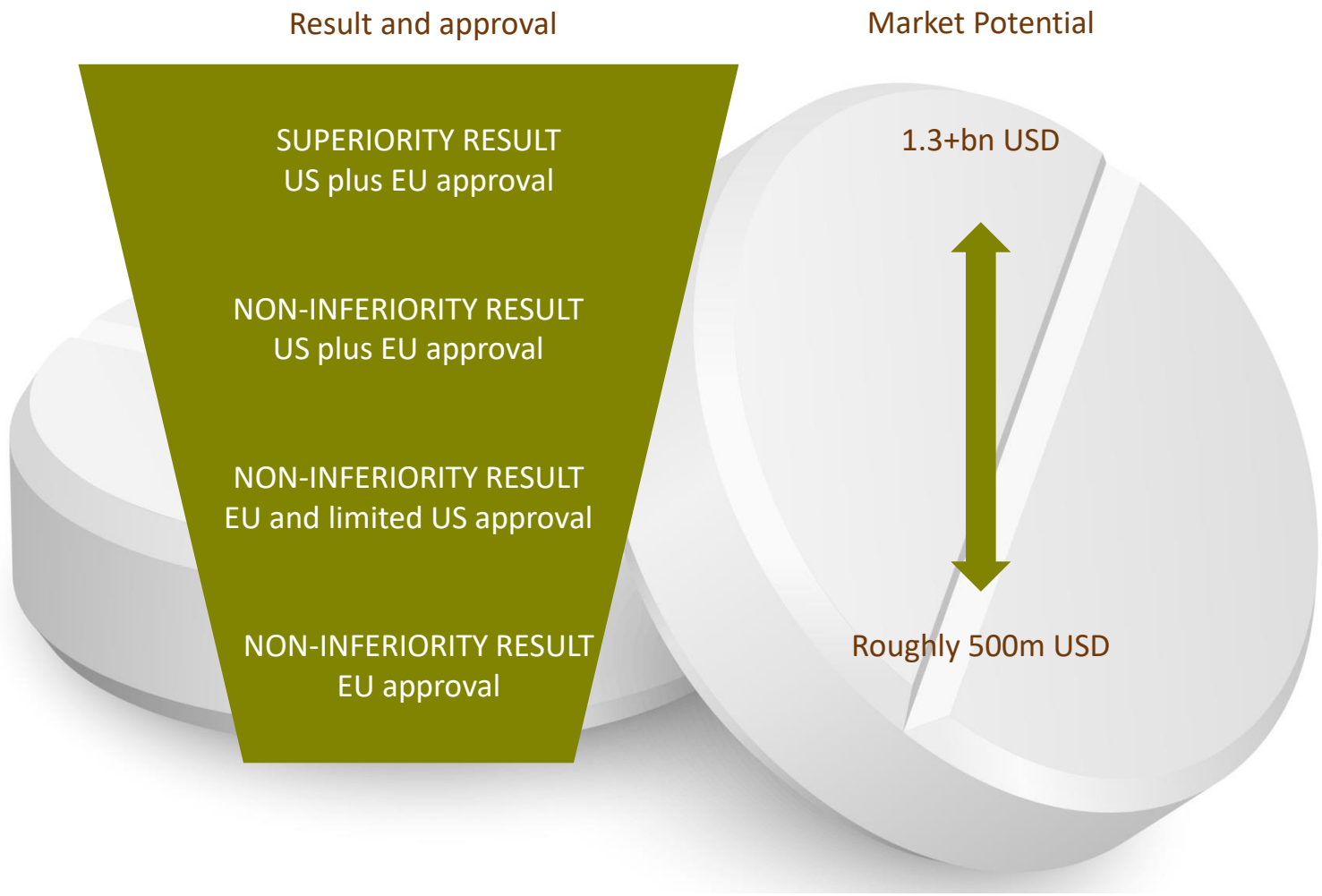
Mar-15: EU Orphan Drug Designation granted by COMP / EMA

Apr-15 to Nov-15: Several Scientific Advice meetings with Swedish MPA

Mar-16: MHRA (British Medicines and Healthcare Products Regulatory Agency) gives positive feedback on design of phase III study

Source: Company information

Clinical development program design enables multiple paths to approval with different labels



Expected news flow until regulatory submission

CLINICAL DEVELOPMENT PROGRAM	COMPANY RELATED	CONFERENCES WERE DATA COULD BE PRESENTED
• **Dec 2016:** First patient in HORIZON	• **During 2018:** Presentation of commercialization strategy	• **Dec 2017:** American Society of Hematology (ASH)
• **During 2017:** Patient enrollment rate HORIZON		• **Jun 2018:** European Hematology Association (EHA)
• **H1 2017:** First patient in OCEAN		• **Jun 2018:** American Society of Clinical Oncology (ASCO)
• **H2 2017:** First patient in ANCHOR		• **Dec 2018:** American Society of Hematology (ASH)
• **H2 2017:** Patient enrollment rate OCEAN and ANCHOR		• **Jun 2019:** American Society of Clinical Oncology (ASCO)
• **During 2018:** Patient enrollment rate OCEAN and ANCHOR		• **Jun 2019:** European Hematology Association (EHA)
• **Q2/Q3 2018:** Last patient out HORIZON		
• **H1 2019:** Last patient out OCEAN		
• **H1 2019:** Last patient out ANCHOR		

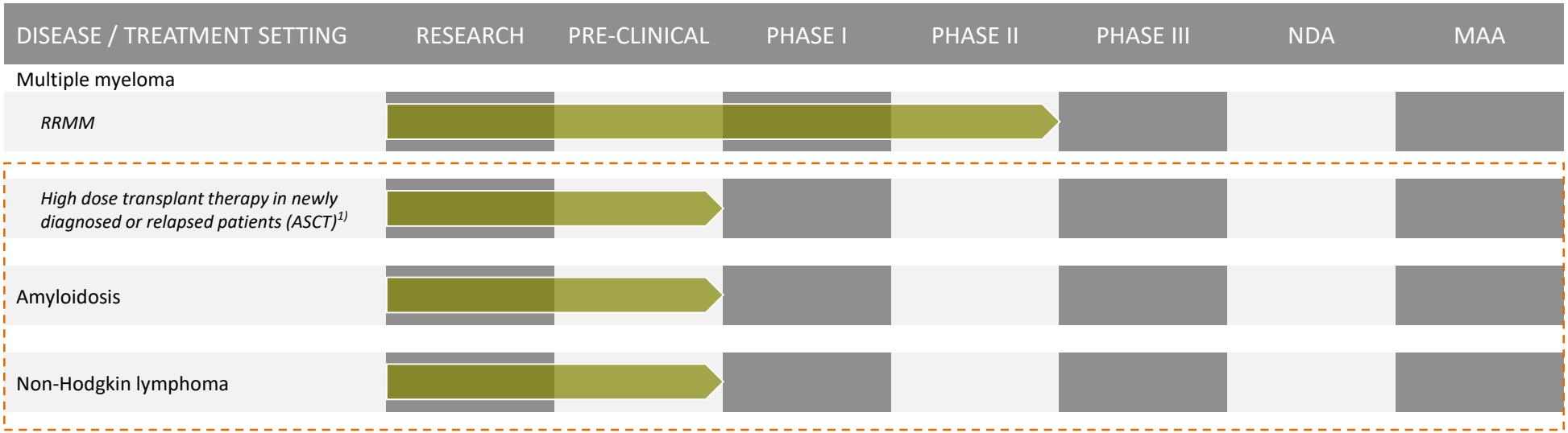
EUROPEAN HEMATOLOGY ASSOCIATION

ASCO® American Society of Clinical Oncology

AMERICAN SOCIETY OF HEMATOLOGY®

Source: Company information

Additional upside potential in high dose transplant therapy in MM, Amyloidosis and non-Hodgkin lymphoma



Source: Company information

Note:

1) Allows broadening of transplant indication outside of MM

oncopeptides

Thank you for your time