









# **SMML** newsletter

May 2024
Based on data from March/April 2024

Monthly updates around multiple myeloma

















## **Objectives**





The goal of this newsletter is to give an overview of what is happening around multiple myeloma in terms of medical developments. This is achieved by monitoring news articles, PR releases and scientific reports on one hand. Conversations from HCPs, digital opinion leaders and other influencers attending congresses, offering their opinion on treatments and commenting on new The goal of this newsletter is to give an overview of what is happening around multiple myeloma in developments on the other hand.





#### Who will benefit from this newsletter?

Any professionals interested in keeping up with developments around multiple myeloma:

- Marketers
- **Business Analysts**
- But also HCPs who want to anticipate the future landscape of MM management

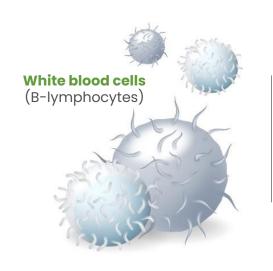


Introduction on Multiple Myeloma

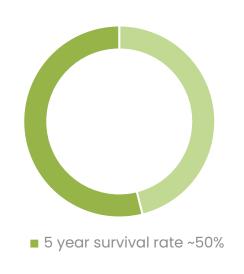
Confidential

## What is Multiple Myeloma?











### **Read more on Multiple Myeloma:**



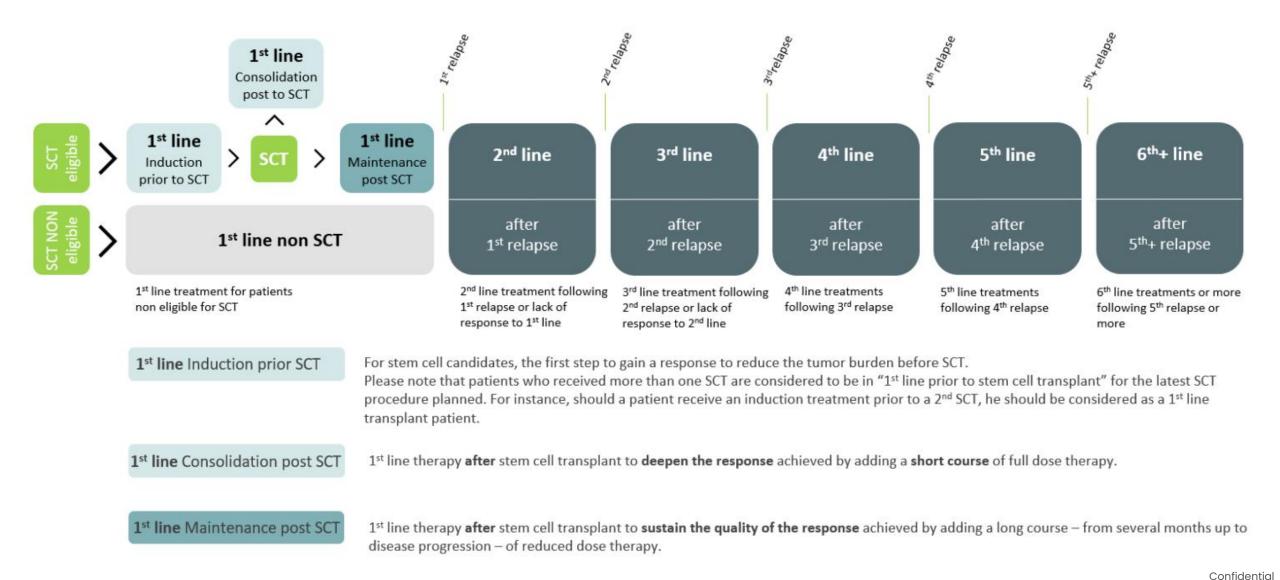
- → Professional version in English
- → Professional version in French



- → Consumer version in English
- → Consumer version in French

## MM lines of therapy based on to the following definitions





# Drugs approved by European Medicines Agency (EMA)

**Novartis** 

Amgen

Genzyme

zoledronate

denosumab

plerixafor

Zometa®

Mozobil®

Prolia® + Xgeva®

		T
		U

+	•	•
	•	•
	•	•

**Click here** 

Prolia® / Xgeva®

Click here

						• • • •
Brand name	Active substance	Manufacturer	Class of therapy	EMA Date of authorisation	Line of treatment	Product Monograph
Revlimid <sup>®</sup>	lenalidomide	BMS	Immunomodulating agents (IMiDs)	14/06/2007	All lines	Click here
Thalidomide® / Thalomid® (US)	thalidomide	BMS	Immunomodulating agents (IMiDs)	16/04/2008	All lines	Click here
Imnovid® / Pomalyst® (US)	pomalidomide	BMS	Immunomodulating agents (IMiDs)	05/08/2013	2L+ (after Revlimid and Velcade)	Click here
Pepaxti® / Pepaxto® (US)	melflufen	Oncopeptides AB	Peptide conjugated alkylator	17/08/2022	Triple class exposed / 3L+ / 4L+ / 5L+	Click here
Velcade <sup>®</sup>	bortezomib	Janssen	Proteasome inhibitors (PIs)	26/04/2004	1LSCT / 1LNSCT	Click here
Kyprolis®	carfilzomib	Amgen	Proteasome inhibitors (PIs)	19/11/2015	2L+ / 3L+	Click here
Ninlaro®	ixazomib	Takeda	Proteasome inhibitors (PIs)	21/11/2016	2L+	<u>Click here</u>
Farydak <sup>®</sup>	panobinostat	Novartis + (Secura Bio)	Histone deacetylase inhibitors (HDACis)	28/08/2015	2L+ Relapsed / Refractory	Click here
Darzalex®	daratumumab	Janssen	Monoclonal antibody against CD38 (Mabs)	20/05/2016	All lines	Click here
Empliciti®	elotuzumab	BMS + (AbbVie)	Monoclonal antibody against SLAMF7 (Mabs)	11/05/2016	2L+ / 3L+	Click here
Sarclisa <sup>®</sup>	isatuximab	Sanofi	Monoclonal antibody against CD38 (Mabs)	30/05/2020	2L+ / 3L+	Click here
Tecvayli®	teclistamab-cqyv	Janssen	Bispecific B-cell maturation antigen (BCMA)-directed CD3 T-cell engager	21/07/2022	4L+ (1Pi + 1 IMiDs + 1anti-CD38 Mabs)	Click here
Talvey®	talquetamab-tgvs	Janssen	Bispecific antibody targeting GPRC5D receptor	09/08/2023 (FDA)	4L+ (1Pi + 1 IMiDs + 1anti-CD38 Mabs)	Click here
Elrexfio®	elranatamab-bcmm	Pfizer	Bispecific B-cell maturation antigen (BCMA)-directed CD3 T-cell engager	14/08/2023 (FDA)	4L+ (1Pi + 1 IMiDs + 1anti-CD38 Mabs)	Click here
Blenrep® / Belamaf® (US)	belantamab mafodotin-blmf	GSK	Antibody-drug conjugates (BCMA)	25/08/2020	2L+ (4L+ after P, IMiD and MAB (L5+ in Italy)	Click here
Nexpovio® / Xpovio® (US)	selinexor	Karyopharm Therapeutics	Nuclear export inhibitor (SINE)	26/03/2021	Penta-refractory (2xPI + 2xIMiDs + 1 Mab)	Click here
Venclyxto® / Venclexta® (US)	venetoclax	AbbVie	B-cell lymphoma 2 (BCL-2)	04/12/2016	2L+ (already used in CLL / AML treatments)	Click here
Abecma®	idecabtagene vicleucel	BMS	Cell-based gene therapy (CAR-T)	18/08/2021	Triple class exposed / 3L+ / 4L+ / 5L+	Click here
Carvykti <sup>®</sup>	ciltacabtagene autoleucel	Janssen	Cell-based gene therapy (CAR-T)	25/05/2022	L3 / L4+ / L5+	Click here
Aredia <sup>®</sup>	pamidronate	Novartis	Bisphosphonates for bone disease	31/10/1991	Supportive care / Long-term use (5+ years)	<u>Click here</u>

20/03/2001

30/07/2009

26/05/2010 - 13/07/2011 Supportive care

Supportive care

Supportive care / Long-term use (5+ years)

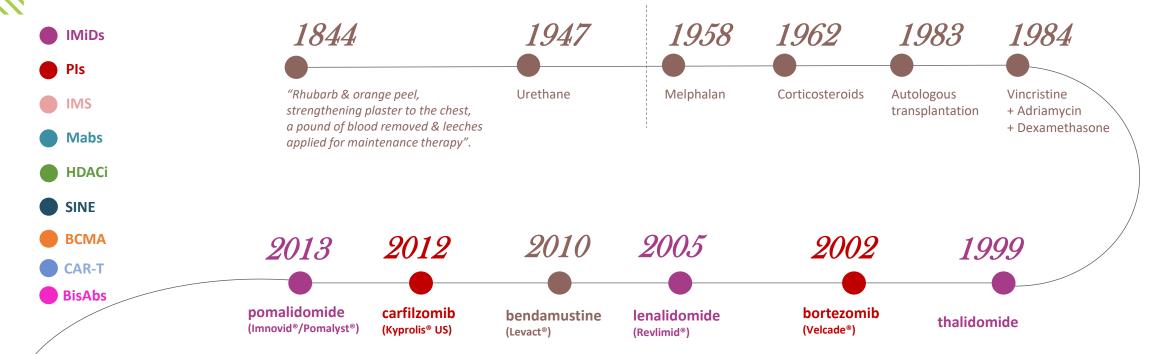
Bisphosphonates for bone disease

Bisphosphonates for bone disease

Stem cell mobilazor

# MM treatment history timeline







#### MM studies at APLUSA





COUNTRIES OVER TIME

per wave per country per year

4,5K **PATIENTS CHARTS** per wave

18k **PATIENTS CHARTS** per year (in EU5)

What's new MM syndiTrack<sup>TM</sup>

### Launching of a US pilot wave, Why?

- Needs from clients for MM US data
- Back data for EU5 for 15 years
- MM US market changing fast + different needs in the US market for labs (patients' ethnicity treatments gap as an example)

Japan wave available China data soon available!

#### APLUSA's added value

- Quarterly + month to month data collection
- Market adaptability: adjusting our questionnaires and updating the list of treatments by including market trends on a monthly basis → **new CAR-Ts + BisAbs**
- Patient's full treatment history
- Deliverables with Power BI DID



March/April 2024





# CONTENTS

### 01.

# News around clinical trials in phase II

- Phase II Relapse/Refra ctory: CAR-T (March 2024)
- Phase II Relapse/Refra ctory: Bispecific Antibo dies (April 2024)
- Phase II Relapse/Refractory: CAR-T (April 2024)

02

# News around clinical trials in Phase III

- Phase III Line 1: Quadruplet therapy (March 2024)
- Phase III Relapse/Refractory:
   Triplet Therapies (March 2024)
- Phase III Relapse/Refractory:
   CAR-T (March 2024)
- Phase III Relapse/Refractory:
   CAR-T (April 2024)

03.

# MM awareness month

- Focus on Patients
- Focus on companies

04.

# Themes of discussion: HCPs

- SOV Themes of discussion
- Posts driving most engag ement

05.

News articles overtime

- Volume of articles per volume of mentions
- Articles per themes

06.

Market watch

Market watch





# SCOPE



The scope of the analysis is focused on mentions coming worldwide.\*



There were a total of **81K** mentions from patients recorded during the listening period from March 1<sup>st</sup>, 2024, to April 30<sup>th</sup>, 2024.



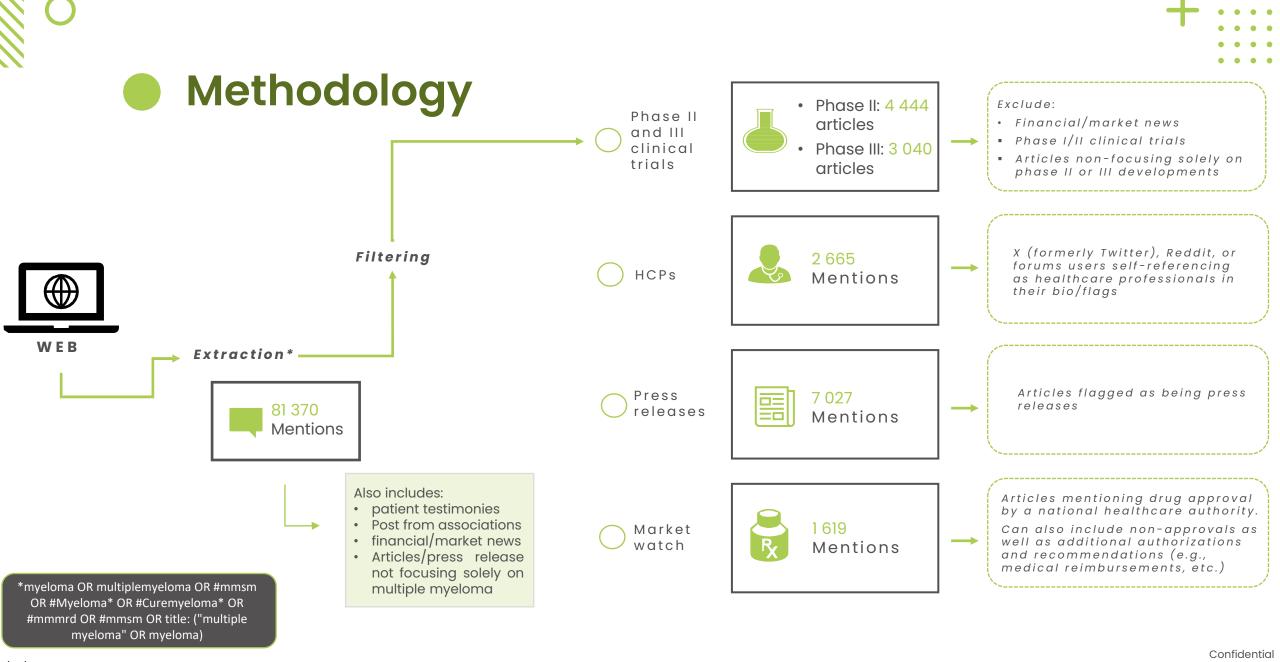
A majority of mentions came from News (66%), X (formerly Twitter) (27%), Instagram (3%), Reddit (2%), blogs (1%) and Forums (1%).



A total of 15K unique authors were identified.

\*myeloma OR multiplemyeloma OR #mmsm OR #Myeloma\* OR #Curemyeloma\* OR #mmmrd OR #mmsm OR title: ("multiple myeloma" OR myeloma)





## Drugs in clinical trials (Phase II) monitored during the listening period

1L

1L

RR

1L

MagnetisMM-9

LINKER-MM1

Cardamon

FORTE

MASTER

NCT02969837

NCT03590652

NCT04309981

NCT05123131

NCT06105554

REBUILD

Regeneron

Other

	•	•
+	•	•
	•	

Sponsor: University College, London

Sponsor: University of Chicago

Sponsor: Cancer Trials Ireland

Sponsor: Sara V. Latorre

Sponsor: Mario Boccadoro, University of Turin, Italy

Sponsor: University of Alabama at Birmingham

Sponsor: University of California, San Diego

Sponsor: Hellenic Society of Hematology

Sponsor: M.D. Anderson Cancer Center

				• • • •
Sponsor	Trial name + link (ctrl + right click)	Line of treatment	Combination/Monotherapy being studied	Note
AbbVie	NCT03314181	RR	venetoclax, daratumumab and dexamethasone (With and Without Bortezomib)	
Bristol-Myers Squibb	ELOQUENT-3	RR	Elotuzumab, pomalidomide, dexamethasone	
CARsgen Therapeutics	LUMMICAR-2	RR	Monotherapy: zevorcabtagene autoleucel	
Celgene	KarMMa-2	RR	Monotherapy (one arm with lenalidomide); BMTCTN1902: Monotherapy: Idecabtagene vicleucel	
	NCT03374085	RR	Monotherapy: mezigdomide or in combination with dexamethasone	
	NCT03989414	1L/RR	bortezomb, dexamethasone, daratumumab, elotuzumab, isatuximab, carfilzomib	
	NCT03989414	IL/RR	mezigdomide, bortezomib, dexamethasone, daratumumab, carfilzomib, elotuzumab, isatuximab	
Cellular Biomedicine Group	NCT05521802	RR	Monotherapy: C-CAR088	
Gilead	NCT05396885	RR	Monotherapy: CART-ddBMCA	
GSK	DREAMM-2	RR	Monotherapy: blenrep	
Janssen	CARTITUDE-1	RR	Monotherapy: ciltacabtagene autoleucel	

Central Bioinedicine Group	NC103321802	KK	Wolfotherapy, C-Carcoo
Gilead	NCT05396885	RR	Monotherapy: CART-ddBMCA
GSK	DREAMM-2	RR	Monotherapy: blenrep
Janssen	CARTITUDE-1	RR	Monotherapy: ciltacabtagene autoleucel
	CARTITUDE-2	RR	Monotherapy: ciltacabtagene autoleucel
	GRIFFIN	1L	daratumumab, lenalidomide, bortezomib, and dexamethasone (D-RVd)

Pfizer	MagnetisMM-3	RR	Monotherapy: elranatamab
Nexcella	NCT04720313	RR	Monotherapy: NXC-201
Nanjing IASO Biotechnology	FUMANBA-1	RR	Monotherapy: equecabtagene autoleucel
	RedirecTT-1	RR	teclistamab, talquetamab, daratumumab
	MonumenTAL-1	RR	Monotherapy: talquetamab
	MajesTEC-1	RR	Monotherapy: teclistamab
	GRIFFIN	1L	daratumumab, lenalidomide, bortezomib, and dexamethasone (D-RVd)
	CARTITUDE-2	RR	Monotherapy: ciltacabtagene autoleucel
341133611	<u> </u>	****	

Monotherapy: elranatamab or in combination with dexamethasone

Monotherapy: Linvoseltamab (also known as REGN5458)

carfilzomib, lenalidomide, daratumumab, dexamethasone

dexamethasone, lenalidomide, daratumumab, carfilzomib

elotuzumab, carfilzomib, lenalidomide, dexamethasone

daratumumab, ixazomib, pomalidomide, dexamethasone

Monotherapy: cesnicabtagene autoleucel (ARI0002h)

isatuximab, bortezomib, lenalidomide, dexamethasone

belumosudil mesylate with or without dexamethasone

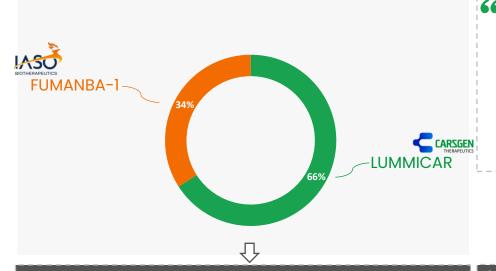
Monotherapy: daratumumab

cyclophosphamide, dexamethasone, carfilzomib

#### Phase II Relapse/Refractory CAR-T: NMPA Approves the NDA for CARsgen's BCMA CAR-T Therapy Zevorcabtagene Autoleucel for Relapsed or Refractory Multiple Myeloma



### Clinical trial mentioned/Sponsor



### Headlines/Hot off the press

NMPA Approves the NDA for CARsgen's BCMA **CAR-T Therapy Zevorcabtagene Autoleucel for** Relapsed or Refractory Multiple Myeloma

"CARsgen Therapeutics Holdings Limited (...) a company focused on innovative CAR T-cell therapies for the treatment of hematologic malignancies and solid tumors, announces that today the National Medical Products Administration ("NMPA") of China has approved the New Drug Application ("NDA") for zevorcabtagene autoleucel, for the treatment of adult patients with relapsed or refractory multiple myeloma who have previously progressed after at least 3 lines of therapy" Click here to read the full article

IASO Bio Announces NMPA's IND Approval for Equecabtagene Autoleucel in Second- and Third-**Line Treatment of Multiple Myeloma** 

"IASO Bio, (...), today announced that China National Medical Products Administration (NMPA) has approved the Investigational New Drug (IND) application for Equecabtagene Autoleucel, a self-developed fully-human anti-B cell maturation antigen (BCMA) chimeric antigen receptor (CAR) autologous T-cell injection, for an expanded indication in treating relapsed and/or refractory multiple myeloma (R/RMM) patients who have undergone 1-2 lines of prior therapies and are refractory to lenalidomide. "Click here to read the full article

#### **LUMMICAR-1**

**FUMANBA-1** 

Ctrl + click to access clinical trial: NCT03975907

"Clinical Trial to Evaluate Zevor-cel (CT053) in Patients With Relapsed and/or Refractory Multiple Myeloma"

"A Phase 1/2 Study of a Fully Human BCMA-targeting CAR (CT103A) in Patients Ctrl + click to access clinical Relapsed/Refractory Multiple trial: NCT05066646 Myeloma"

#### Molecules

zevorcabtagene autoleucel

equecabtagene autoleucel

patment of patients with relapsed innovative cell therapies lines of therapy refractory to lenalidomide expansion into autoimmune indications

immunomodulatory agent

on relapsed and refractory multiple myeloma earlier lines including a proteasome inhibitor

patients with multiple myeloma FDA for relapsed European Commission today announced anti-CD38 antibody and have demonstrated

plasma cell announced today cell therapy lines of prior therapies SHANGHAI and NANJING

treatment of relapsed



# Phase II Relapse/Refractory Bispecific Antibodies: Linvoseltamab Pivotal Data Presented at AACR Reinforce High Response Rate that Deepens Over Time in Patients with Heavily Pre-Treated Multiple Myeloma

99



### Headlines/Hot off the press

Linvoseltamab Pivotal Data Presented at AACR Reinforce High Response Rate that Deepens Over Time in Patients with Heavily Pre-Treated Multiple Myeloma

"Regeneron Pharmaceuticals, Inc. today announced the oral plenary session presentation of positive pivotal data from the Phase 1/2 LINKER-MM1 trial of linvoseltamab in patients with relapsed/refractory (R/R) multiple myeloma (MM) at the American Association for Cancer Research (AACR) Annual Meeting 2024 in San Diego." Click <a href="https://example.com/here">here</a> to read the full article

Sponsor

REGENERON

LINKER-MM1
Ctrl + click to access clinical trial: NCT03761108

"Phase 1/2 Study of REGN5458 in Patients With Relapsed or Refractory Multiple Myeloma" Molecule

linvoseltamab



# Phase II Relapse/Refractory CAR-T: Immix Biopharma Awarded European Union Orphan Drug Designation for NXC-201 in Multiple Myeloma



### Headlines/Hot off the press

66

# Immix Biopharma Awarded European Union Orphan Drug Designation for NXC-201 in Multiple Myeloma

"Immix Biopharma, Inc. (...), a clinical-stage biopharmaceutical company trailblazing cell therapies in autoimmune disease, today announced that the European Commission (EC) has granted orphan drug designation to NXC-201 for the treatment of multiple myeloma.." Click <a href="here">here</a> to read the full article





**NEXICART-1** 

Ctrl + click to access clinical trial:

In the ongoing phase 2 trial, NXC-201 is being evaluated for overall response rate (ORR), portion of patients with complete response (CR), and duration of response (DOR).

Molecule

NXC-201



# Drugs in clinical trials (Phase III) monitored during the listening period

		•
+	•	
	•	

Sponsor	Trial name + link (ctrl + right click)	Line of treatment	Combination/Monotherapy being studied	Note
AbbVie	<u>Bellini</u>	RR	venetoclax, bortezomib, dexamethasone	
	CANOVA	RR	venetoclax, dexamethasone	
Celgene	DETERMINATION	RR	lenalidomide, bortezomib, dexamethasone	
	KarMMa-3	RR	Monotherapy: Idecabtagene vicleucel	
GSK	DREAMM-3	RR	Monotherapy: belantamab mafodotin	
	DREAMM 7	RR	belantamab mafodotin, bortezomib and dexamethasone	
	DREAMM 8	RR	belantamab mafodotin Plus pomalidomide and dexamethasone	
Janssen	AURIGA	Maintenance	daratumumab, lenalidomide	
	CARTITUDE-4	RR	Monotherapy: ciltacabtagene autoleucel	
	CASTOR	RR	daratumumab, bortezomib, dexamethasone	
	MAIA	1L	daratumumab, lenalidomide, dexamethasone	
	MajesTEC-3	RR	teclistamab, daratumumab Subcutaneously (SC) (Tec-Dara)	
	POLLUX	RR	daratumumab, lenalidomide, and dexamethasone	
Karyopharm	BOSTON	RR	selinexor, bortezomib,, dexamethasone	
Oncopeptides	OCEAN	RR	Monotherapy: melphalan flufenamide	
Pfizer	MagnetisMM-5	RR	Monotherapy: elranatamab or doublet therapy with daratumumab	
Sanofi	ICARIA-MM	RR	isatuximab, pomalidomide, dexamethasone	
	<u>IKEMA</u>	RR	isatuximab, carfilzomib And dexamethasone	
Takeda	TOURMALINE-MM1	RR	ixazomib, lenalidomide, dexamethasone	
	TOURMALINE-MM2	1L	ixazomib, lenalidomide, dexamethasone	
Other	ATLAS	Maintenance	lenalidomide, carfilzomib, dexamethasone	Sponsor: University of Chicago
	DRAMMATIC	1	lenalidomide, daratumumab	Sponsor: SWOG Cancer Research Network
	EQUATE	1L	daratumumab, bortezomib, lenalidomide and dexamethasone	Sponsor: ECOG-ACRIN Cancer Research Group
	Myeloma XI	1L	cyclophosphamide, dexamethasone plus lenalidomide with or without carfilzomib	Sponsor: University of Leeds
	<u>IsKia</u>	11	isatuximab, lenalidomide, carfilzomib, dexamethasone	Sponsor: European Myeloma Network
	PERSEUS	1L	daratumumab, bortezomib, dexamethasone, lenalidomide	Sponsor: European Myeloma Network





### Headlines/Hot off the press

Johnson & Johnson submits application to the European Medicines Agency for DARZALEX® (daratumumab)-based quadruplet therapy for the treatment of patients with transplant-eligible, newly diagnosed multiple myeloma

"Janssen-Cilag International NV, a Johnson & Johnson company, today announced the submission of a Type II variation application to the European Medicines Agency. The submission is seeking approval for an indication extension of DARZALEX® subcutaneous formulation in combination with bortezomib, lenalidomide, and dexamethasone (D-VRd) for the treatment of adult patients with newly diagnosed multiple myeloma who are eligible for autologous stem cell transplant."

### Sponsor



#### **PERSEUS**

Ctrl + click to access clinical trial:

"A Phase 3 Study Comparing Daratumumab, VELCADE (Bortezomib), Lenalidomide, and Dexamethasone (D-VRd) vs VELCADE, Lenalidomide, and Dexamethasone (VRd) in Subjects With Previously Untreated Multiple Myeloma Who Are Eligible for High-dose Therapy"

#### Combinations

daratumumab + Ienalidomide

dexamethasone

bortezomib





# Phase III Relapse/Refractory Triplet Therapies: GSK's blood cancer drug meets main goal in late-stage trial; analysts tout comeback



### Headlines/Hot off the press

66

GSK's blood cancer drug meets main goal in late-stage trial; analysts tout comeback

**"** 

"GSK said on Thursday a study showed its experimental drug Blenrep helped extend survival in patients with a type of blood cancer without symptoms worsening, marking a potential comeback for the drug after several setbacks."

Click here to read the full article





DREAMM-8
Ctrl + click to access
clinical trial:

NCT04484623

"This study will evaluate the efficacy and safety of belantamab mafodotin in combination with pomalidomide and dexamethasone (Arm A) compared with that of combination of pomalidomide, bortezomib and dexamethasone (Arm B) in participants with relapsed/refractory multiple myeloma (RRMM)."

### Combinations

pomalidomide



belantamab mafodotin

dexamethasone



Phase III Relapse/Refractory CAR-T: Bristol Myers Squibb's Abecma (idecabtagene vicleucel) Becomes First CAR T Cell Therapy Approved in the European Union in Earlier Lines for Triple-Class Exposed Relapsed and Refractory Multiple Myeloma



### Headlines/Hot off the press

66

Bristol Myers Squibb's Abecma (idecabtagene vicleucel) Becomes First CAR T Cell Therapy Approved in the European Union in Earlier Lines for Triple-Class Exposed Relapsed and Refractory Multiple Myeloma

"Abecma demonstrated superiority over standard regimens in the Phase 3 KarMMa-3 trial, with a 51% reduction in risk of disease progression or death and a well-established safety profile with mostly low-grade and transient occurrences of cytokine release syndrome and neurotoxicity" Click here to read the full article





KarMMA-3

Ctrl + click to access the clinical trial: NCT03651128

"Efficacy and Safety Study of bb2121 Versus Standard Regimens in Subjects With Relapsed and Refractory Multiple Myeloma (RRMM) (KarMMa-3)" Molecule

idecabtagene vicleucel

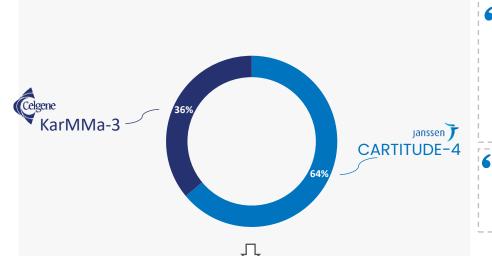




#### Phase III Relapse/Refractory CAR-T: FDA Approves Carvykti for Patients with Relapsed or Refractory Multiple Myeloma Who Have Received at Least One Prior Line of Therapy







### Headlines/Hot off the press

FDA Approves Carvykti for Patients with Relapsed or Refractory Multiple Myeloma Who Have Received at **Least One Prior Line of Therapy** 

"Johnson & Johnson announced today that the U.S. Food and Drug Administration has approved Carvykti® for the treatment of adult patients with relapsed or refractory multiple myeloma who have received at least one prior line of therapy, including a proteasome inhibitor and an immunomodulatory agent, and are refractory to lenalidomide." Click here to read the full article

Cranial Nerve Palsy May Be Present After Cilta-Cel for Multiple Myeloma

A subgroup of patients from the 3 CARTITUDE trials experienced cranial nerve palsy after treatment, most of whom were men. Click here to read the full article

Cilta-cel Shows High Responses for Lenalidomide-**Refractory Myeloma in First Relapse** 

> The latest CARTITUDE-4 data examine the efficacy and safety of ciltacabtagene autoleucel in lenalidomide-refractory multiple myeloma. Click here to read the full article

CARVYKTI® (ciltacabtagene autoleucel) Approved

by the European Commission for Second-line Treatment of Patients with Relapsed and Refractory

Multiple Myeloma

"Legend Biotech Corporation, a global leader in cell therapy,

announced today that the European Commission has granted

approval of CARVYKTI® for the treatment of adult patients with

relapsed and refractory multiple myeloma who have received at

least one prior line of therapy" Click here to read the full article

66 U.S. FDA Approves Bristol Myers Squibb and 2seventy bio's Abecma for Triple-Class Exposed Relapsed or Refractory Multiple Myeloma After Two Prior Lines of Molecules Therapy

> "Bristol Myers Squibb and 2seventy bio, Inc. have announced that on April 4, 2024, the U.S. Food and Drug Administration approved Abecma® for the treatment of adult patients with relapsed or refractory multiple myeloma after two or more prior lines of therapy including an immunomodulatory agent, a proteasome inhibitor, and an anti-CD38 monoclonal antibody, based on results from the KarMMa-3 trial. This approval expands Abecma's indication, making it available in earlier lines to patients who have relapsed or become refractory after exposure to these three main classes of treatment (triple-class exposed), after two prior lines of therapy. Click here to read the full article

**CARTITUDE-4** Ctrl + click to access clinical

trial: NCT04181827

"A Study Comparing JNJ-68284528, a CAR-T Therapy Directed Against B-cell Maturation Antigen (BCMA) Versus Pomalidomide, Bortezomib and Dexamethasone or Daratumumab, Pomalidomide and Dexamethasone (DPd) in Participants With Relapsed and Lenalidomide-Refractory Multiple Myeloma"

"Efficacy and Safety Study of bb2121 Versus Standard Regimens in Subjects With Relapsed and Refractory Multiple Myeloma (RRMM) (KarMMa-3)"

idecabtagene vicleucel

ciltacabtagene autoleucel

KarMMA-3

Ctrl + click to access the clinical trial: NCT03651128

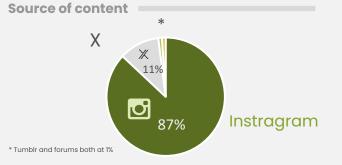
## Multiple Myeloma Awareness Month: Focus On Patients

Patients' online conversation analyzed:

Mostly coming mostly from the United states and The United kingdom.













91%

9%





"March is #MyelomaActionMonth! These pictures were taken 7 years ago during induction chemo. I wish people knew that #myeloma often presents as fatigue and back pain - common for a busy working mom. It was several months & some compression

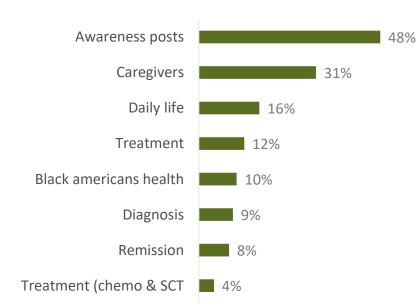
fractures before diagnosis. #mmsm"

find Purpose for the next chapter 🦺

enjoy this 2 minute flight 4 Best Seen Fullscreen - Bilitis, Francis Lai 📶 #montana #snow #winter #MentalWellness #cancerwarrior #drones @andre tfw#FridavFeeling

Top posts per engagement

**Topic of discussions** 

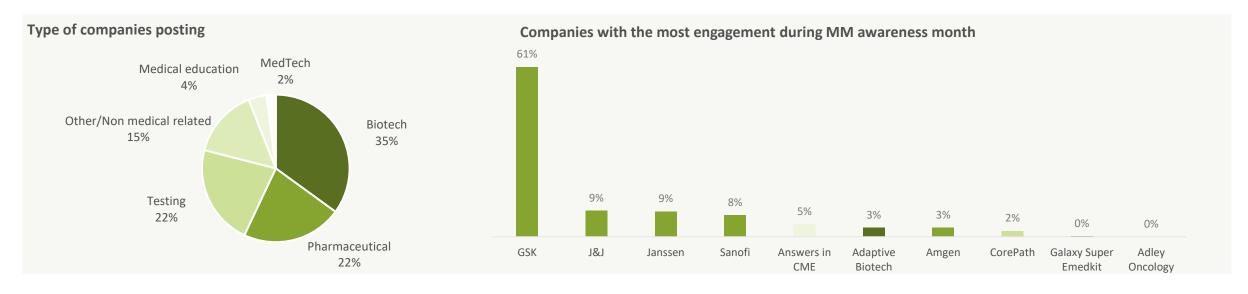


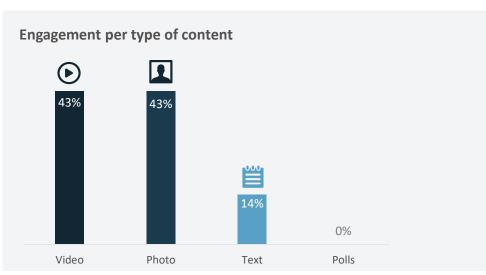
Word cloud emojis

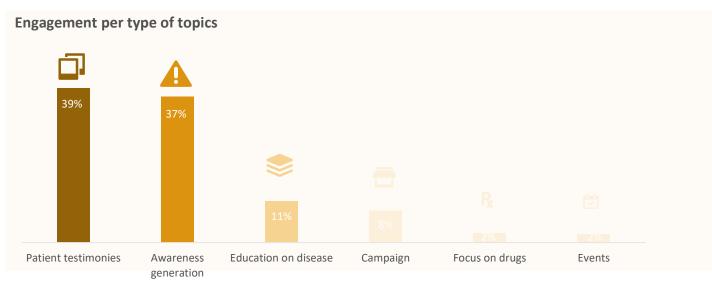




# GSK leads content about multiple myeloma awareness in terms of engagement. Overall, content about patient testimonies in the form of videos was the most successful type of post.



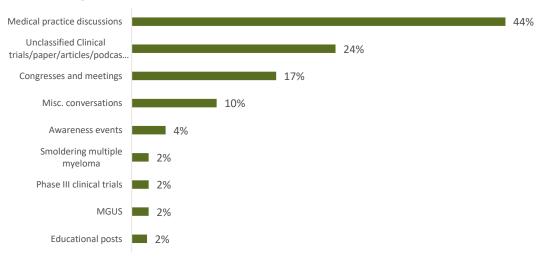




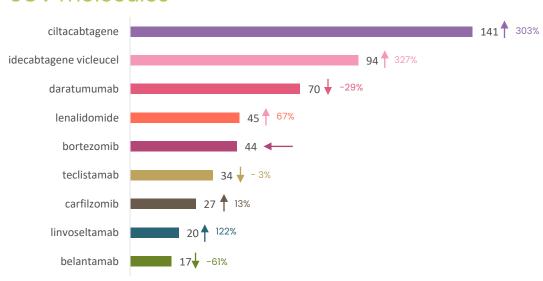


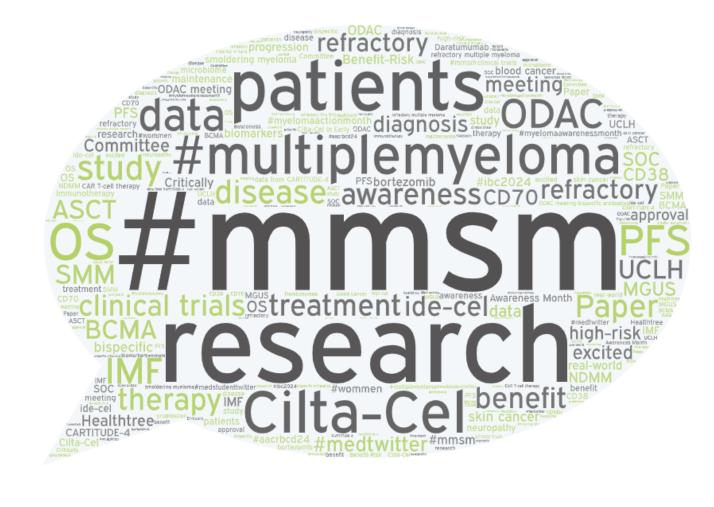
Online discussions focused heavily on Carvykti both in March and in April, first with the ODAC decision to allow its use in earlier relapsed/refractory multiple myeloma patients. A decision that was later confirmed in April when Carvykti was authorised by the FDA for said patients.

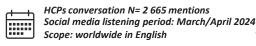
### SOV topics of conversations



#### SOV molecules









SYNDICATED

April and March was a time of guidance and reflection on treatment options and modalities for online HCPs this month.

Dr Rajkumar shared the IMWG committee consensus guidelines for the optimal use of bispecific antibodies, accessible <a href="here">here</a> (a subscription to the lancet oncology is required).

Dr Rajkumar also enthusiastically mused about the number of molecules that have been approved since the 2000's. He then shared some resources to facilitate the treatment journey in an ensuing thread.

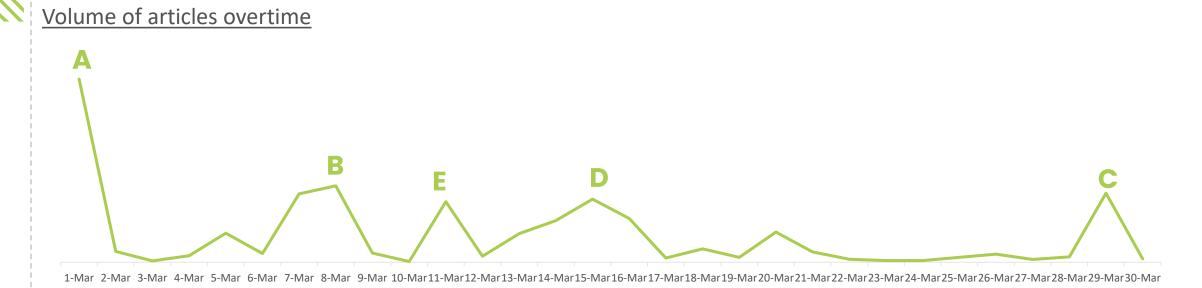
Dr Tembhare promoted a study for which he was the principal investigator. The study is available <u>here</u>.



Confidential

# Media (press releases): volume and articles per peak (March 2024)





"HealthTree Foundation Announces Launch of HealthTree Research Hub in Multiple Myeloma" Link

"NMPA Approves the NDA for CARsgen's BCMA CAR-T Therapy Zevorcabtagene Autoleucel for Relapsed or Refractory Multiple Myeloma" Link

"Cullinan Oncology Announces U.S. FDA Clearance of Investigational New Drug Application for Novel MICA/B Antibody, CLN-619, for Relapsed/Refractory Multiple Myeloma" Link

**"Boosting Minority Enrollment in Clinical Trials"**Link

"Multiple Myeloma in **Black and Hispanic Communities**" <u>Link</u> **B** "More multiple myeloma patients eligible for stem cell transplantation" <u>Link</u>

"Johnson & Johnson submits application to the European Medicines Agency for DARZALEX® (daratumumab)-based quadruplet therapy for the treatment of patients with transplant-eligible, newly diagnosed multiple myeloma" Link

"GSK announces **positive results from DREAMM-8** phase III trial for Blenrep versus standard of care combination in relapsed/refractory multiple myeloma" Link

C "IASO Bio Announces NMPA's IND Approval for Equecabtagene Autoleucel in Second- and Third-Line Treatment of Multiple Myeloma" Link

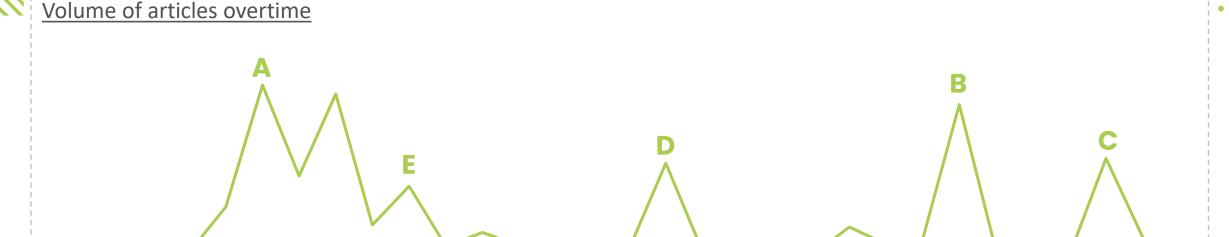
"CARVYKTI® (ciltacabtagene autoleucel) Receives
Recommendation from the U.S. FDA Oncologic Drugs
Advisory Committee for Earlier Treatment of Patients
with Relapsed/Refractory Multiple Myeloma" Link

**"FDA Advisory Committee** Votes in Favor of Bristol Myers Squibb's and 2seventy bio's **Abecma** for Triple-Class Exposed Multiple Myeloma in Earlier Lines of Therapy" <u>Link</u>

"Mayo Clinic Minute: Advances in multiple myeloma treatment" Link

# Media (press releases): volume and articles per peak (April 2024)





1-Apr 2-Apr 3-Apr 4-Apr 5-Apr 6-Apr 7-Apr 8-Apr 9-Apr 10-Apr 11-Apr 12-Apr 13-Apr 14-Apr 15-Apr 16-Apr 17-Apr 18-Apr 19-Apr 20-Apr 21-Apr 22-Apr 23-Apr 24-Apr 25-Apr 26-Apr 27-Apr 28-Apr 29-Apr 30-Apr

"CARVYKTI® is the First and Only BCMA-Targeted Treatment Approved by the U.S. FDA for Patients with Relapsed or Refractory Multiple Myeloma Who Have Received at Least One Prior Line of Therapy" Link

"FDA approves earlier use of Abecma for triple-class exposed multiple myeloma" Link

**B** "Lucio N. Gordan, MD Discusses Findings of Phase 3 Clinical Trial Supporting Advanced Treatments for Multiple Myeloma in National Broadcast" Link

"Starton Therapeutics Announces Enrollment Completion for STAR-LLD **Phase 1b Clinical Trial** in Multiple Myeloma" <u>Link</u>

- "Immix Biopharma Awarded European Union Orphan Drug Designation for NXC-201 in Multiple Myeloma" Link
- "BioLineRx Announces Poster Presentation on Apheresis Center Efficiency and CXCR4 Antagonists including **APHEXDA®** (motixafortide) in Patients with Multiple Myeloma at the ASFA 2024 Annual Meeting" Link

"New Agent Shows Early Promise in Triple-Class Refractory Multiple Myeloma" Link

"ASTCT Supports the FDA's Approval of Earlier Use of CAR T-Cell Therapy for Multiple Myeloma" Link

"Opna Bio Presents Promising Preclinical Data in Multiple Myeloma with OPN-6602 (...) at the American Association of Cancer Research Annual Meeting" Link

"FDA appears receptive to surrogate endpoint supporting accelerated approval of multiple myeloma drugs" Link



# +

#### **APROVAL AND CLEARANCES**

- "NMPA Approves the NDA for CARsgen's BCMA CAR-T Therapy Zevorcabtagene Autoleucel for Relapsed or Refractory Multiple Myeloma" <u>Link</u>
- "Cullinan Oncology Announces U.S. FDA Clearance of Investigational New Drug Application for Novel MICA/B Antibody, CLN-619, for Relapsed/Refractory Multiple Myeloma" <u>Link</u>
- "Johnson & Johnson submits application to the European Medicines Agency for DARZALEX® (daratumumab)-based quadruplet therapy for the treatment of patients with transplant-eligible, newly diagnosed multiple myeloma" <u>Link</u>
- "IASO Bio Announces NMPA's IND Approval for Equecabtagene Autoleucel in Second- and Third-Line Treatment of Multiple Myeloma" <u>Link</u>
- "CARVYKTI® (ciltacabtagene autoleucel) Receives Recommendation from the U.S. FDA Oncologic Drugs Advisory Committee for Earlier Treatment of Patients with Relapsed/Refractory Multiple Myeloma" <u>Link</u>
- "FDA Advisory Committee Votes in Favor of Bristol Myers Squibb's and 2seventy bio's Abecma for Triple-Class Exposed Multiple Myeloma in Earlier Lines of Therapy" <u>Link</u>

## Antibody-drug conjugates (BCMA)

 "GSK announces positive results from DREAMM-8 phase III trial for Blenrep versus standard of care combination in relapsed/refractory multiple myeloma" Link

#### **PATIENT LIFE**

- "Boosting Minority Enrollment in Clinical Trials" Link
- "Multiple Myeloma in Black and Hispanic Communities" <u>Link</u>
- "More multiple myeloma patients eligible for stem cell transplantation"  $\underline{\text{Link}}$

#### **RESEARCH**

- "HealthTree Foundation Announces Launch of HealthTree Research Hub in Multiple Myeloma" <u>Link</u>
- "Mayo Clinic Minute: Advances in multiple myeloma treatment" Link

## Articles per theme (April 2024)



#### **BISPECIFIC ANTIBODIES**

• "New Agent Shows Early Promise in Triple-Class Refractory Multiple Myeloma" <u>Link</u>

#### CAR-T

- "CARVYKTI® is the First and Only BCMA-Targeted Treatment Approved by the U.S.
  FDA for Patients with Relapsed or Refractory Multiple Myeloma Who Have
  Received at Least One Prior Line of Therapy" Link
- "FDA approves earlier use of Abecma for triple-class exposed multiple myeloma" Link
- "Immix Biopharma Awarded European Union Orphan Drug Designation for NXC-201 in Multiple Myeloma" <u>Link</u>

#### **CLINICAL TRIAL**

• "Starton Therapeutics Announces Enrollment Completion for STAR-LLD Phase 1b Clinical Trial in Multiple Myeloma" Link

#### **CONGRESSES AND PRESENTATIONS**

- "Lucio N. Gordan, MD Discusses Findings of Phase 3 Clinical Trial Supporting Advanced Treatments for Multiple Myeloma in National Broadcast" <u>Link</u>
- "BioLineRx Announces Poster Presentation on Apheresis Center Efficiency and CXCR4 Antagonists including APHEXDA® (motixafortide) in Patients with Multiple Myeloma at the ASFA 2024 Annual Meeting" Link

## **EP300/CBP bromodomain inhibitors**

"Opna Bio Presents Promising Preclinical Data in Multiple Myeloma with OPN-6602

 (...) at the American Association of Cancer Research Annual Meeting" <u>Link</u>

#### MISC.

- "ASTCT Supports the FDA's Approval of Earlier Use of CAR T-Cell Therapy for Multiple Myeloma" <u>Link</u>
- "FDA appears receptive to surrogate endpoint supporting accelerated approval of multiple myeloma drugs" <u>Link</u>

# **Drug Market Watch**

**March 2024** 





Bristol Myers Squibb's Abecma (idecabtagene vicleucel) Becomes First CAR T Cell Therapy Approved in the European Union in Earlier Lines for Triple-Class Exposed Relapsed and Refractory Multiple Myeloma Link

J&J seeks EU approval for new **Darzalex** multiple myeloma indication <u>Link</u>

European Commission

99

Confidentia



# **Drug Market Watch**



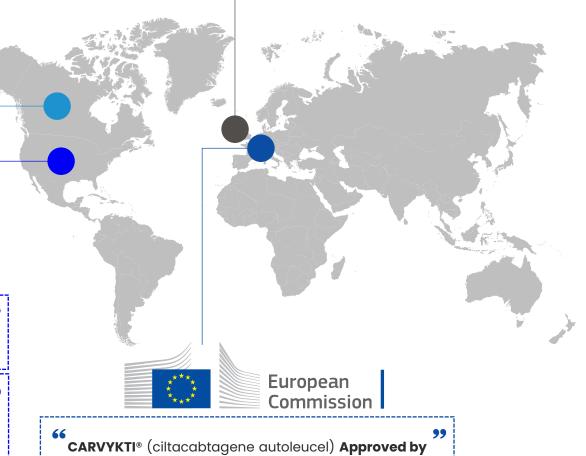




INESSS Recommendation to Deny Reimbursement for Multiple Myeloma Treatment is a Global Outlier Link



- FDA Approves Carvykti for Patients with Relapsed or Refractory Multiple Myeloma Who Have Received at Least One Prior Line of Therapy Link
- U.S. FDA Approves Bristol Myers Squibb and 2seventy bio's **Abecma** for Triple-Class Exposed Relapsed or Refractory Multiple Myeloma After Two Prior Lines of Therapy Link



CARVYKTI® (ciltacabtagene autoleucel) Approved by the European Commission for Second-line Treatment of Patients with Relapsed and Refractory Multiple Myeloma Link

Immix Biopharma Awarded European Union Orphan Drug Designation for NXC-201 in Multiple Myeloma Link

National Institute for Health and Care Excellence

NICE recommends Nexpovio 99
for multiple myeloma patients,
addressing treatment gaps
Link