# Daratumumab (Darzalex®) in a new pharmaceutical form associated with a new strength and a new route of administration for the treatment of multiple myeloma

General information				
Drug description	Indication			
Human IgGк CD <sub>3</sub> 8-targeting monoclonal antibody	New pharmaceutical form, new strength and new route of administration of daratumumab			
	Current pharmaceutical form/strength/route of administration [1]			

DARZALEX® 20 mg/ml concentrate for solution for infusion.

Each 5 ml vial contains 100 mg of daratumumab (20 mg daratumumab per ml).

Each 20 ml vial contains 400 mg of daratumumab (20 mg daratumumab per ml).

**Approval status for this indication**: On 30 April 2020, the CHMP recommended the addition of a new pharmaceutical form (solution for injection) of daratumumab, associated with a new strength (1800 mg in 15-ml vial) and a new route of administration (subcutaneous injection into the abdomen).

EMA [2]

#### Indications:

The new formulation can be used for all the authorised indications of Darzalex®, as follows:

- in combination with lenalidomide and dexamethasone or with bortezomib, melphalan and prednisone for the
  treatment of adult patients with newly diagnosed multiple myeloma (MM) who are ineligible for autologous
  stem cell transplant (ASCT)
- in combination with bortezomib, thalidomide and dexamethasone for the treatment of adult patients with newly diagnosed MM who are eligible for ASCT
- in combination with lenalidomide and dexamethasone, or bortezomib and dexamethasone, for the treatment of adult patients with MM who have received at least one prior therapy
- as monotherapy for the treatment of adult patients with relapsed and refractory MM, whose prior therapy included a proteasome inhibitor (PI) and an immunomodulatory agent and who have demonstrated disease progression on the last therapy.
- ✓ Orphan status
- ✓ Medicine under additional monitoring
- ✓ Accelerated assessment<sup>1</sup>

Julatury Status

**Approval status for this indication**: Approved o5/2020: DARZALEX FASPRO™ (daratumumab and hyaluronidase-fihj) injection, for subcutaneous use;

FDA [3]

1,800 mg daratumumab and 30,000 units hyaluronidase per 15 ml (120 mg and 2,000 units/ml) solution in a single-dose vial

#### Indications:

DARZALEX FASPRO<sup>TM</sup> is indicated for the treatment of adult patients with MM:

- in combination with bortezomib, melphalan and prednisone in newly diagnosed patients who are ineligible for ASCT
- in combination with lenalidomide and dexamethasone in newly diagnosed patients who are ineligible for ASCT and in patients with relapsed or refractory MM who have received at least one prior therapy
- in combination with bortezomib and dexamethasone in patients who have received at least one prior therapy
- as monotherapy, in patients who have received at least three prior lines of therapy including a PI and an immunomodulatory agent or who are double-refractory to a PI and an immunomodulatory agent.

### Costs

Darzalex® solution for injection 1800 mg = € 6,288.00 (ex-factory price) [4]

COLUMBA trial patients received daratumumab once weekly (cycles 1 and 2), every 2 weeks (cycles 3–6), and then every 4 weeks (28-day cycles) until progressive disease or toxicity. Patients received a median of six cycles per group.

Study characteristics									
Trial name	n	Intervention (I)	Comparator (C)	PEs (co-primary)	Characteristics	Biomarker	Funding	Publication(s)	

<sup>&</sup>lt;sup>1</sup> This medicine had an accelerated assessment, meaning that it is a medicine of major interest for public health, so its timeframe for review was 150 evaluation days rather than 210.

CR or better: 1.9% vs. 2. Very good partial respor Partial response: 22.1% v C <sub>trough</sub> : the geometric m	2.7% onse: 17.1% vs 6 vs. 20.1% means ratio fo		C)		Grade ≥3 treatment-emergent AB SAEs: n=68/260 (26%) vs. n=76/25	;8 (29%)	(8 (49%)
CR or better: 1.9% vs. 2. Very good partial respor Partial response: 22.1% v C <sub>trough</sub> : the geometric m	2.7% onse: 17.1% vs 6 vs. 20.1% means ratio fo	. 14.3%			<b>SAEs</b> : n=68/260 (26%) vs. n=76/258	;8 (29%)	;8 (49%)
CTSQ: mean scores for t subcutaneous group res	d reaction: 12. ths vs. 6.08 m r the "Satisfac esponded more eous)", "Takin	ıg/ml (226) in the intravenous grou	nsistently higher in I than in C.	Patients in the ancer therapy	Death <sup>3</sup> : n=1/260 (0.4%) vs. and n=1 Discontinuation due to AEs: n=18	_	
			ESMO-	MCBS version 1.1			
				Not applicable			
			Risk of	bias (study level)			
Adequate generation randomisation sequ		Adequate allocation concealment		Selective outcome reporting unlikely	Other aspects which increase the r	risk of bias	Risk of bias
yes		yes	open-label	unclear4	yes <u></u>		high risk blished: 04/2020

Abbreviations: AE=adverse event, ASCT= autologous stem cell transplant, CHMP - Committee for Medicinal Products for Human Use, Cl=confidence interval, CR=complete response, CTSQ= Cancer Therapy Satisfaction Questionnaire, Ctrough=maximum trough concentration, EMA=European Medicines Agency, ESMO-MCBS= European Society of Medical Oncology – Magnitude of Clinical Benefit Scale, FDA=Food and Drug Administration, HR=hazard ratio, MM=multiple myeloma, n=number, SAE=serious adverse event, OS=overall survival, PE=primary endpoint, PFS=progression-free survival, PI=proteasome inhibitor, QoL=quality of life

## References:

- 1. European Medicines Agency (EMA). Darzalex: EPAR Product Information [Available from: <a href="https://www.ema.europa.eu/en/documents/product-information/darzalex-epar-product-information\_en.pdf">https://www.ema.europa.eu/en/documents/product-information/darzalex-epar-product-information\_en.pdf</a>.
- 2. European Medicines Agency (EMA). Medicines.Darzalex. [Available from: <a href="https://www.ema.europa.eu/en/medicines/human/summaries-opinion/darzalex-1">https://www.ema.europa.eu/en/medicines/human/summaries-opinion/darzalex-1</a>.
- 3. U.S. Food and Drug Administration (FDA). Drugs@FDA.Darzalex Faspro.Label information. [Available from: <a href="https://www.accessdata.fda.gov/drugsatfda\_docs/label/2020/7611455000lbl.pdf">https://www.accessdata.fda.gov/drugsatfda\_docs/label/2020/7611455000lbl.pdf</a>.
- 4. Apotheker-Verlag Ö. Warenverzeichnis online [Available from: https://warenverzeichnis.apoverlag.at/.

<sup>&</sup>lt;sup>2</sup> COLUMBA trial is ongoing until 12/2023

<sup>&</sup>lt;sup>3</sup> Death judged to be treatment-related

<sup>&</sup>lt;sup>4</sup> COLUMBA trial is currently ongoing

<sup>&</sup>lt;sup>5</sup> Industry-funded; trial was designed by the study sponsor

Mateos M, Nahi H, Legiec W, Grosicki S, et al. Subcutaneous versus intravenous daratumumab in patients with relapsed or refractory multiple myeloma (COLUMBA): a multicentre, open-label, non-inferiority, randomised, phase 3 trial Lancet Haematol 2020. Published Online March 23, 2020 [Available from: https://www.sciencedirect.com/science/article/abs/pii/S2352302620300703.