Check for updates





Blood 142 (2023) 6741-6742

The 65th ASH Annual Meeting Abstracts

ONLINE PUBLICATION ONLY

653.MULTIPLE MYELOMA: PROSPECTIVE THERAPEUTIC TRIALS

Multicenter Open Label Phase 3 Benefit Study of Isatuximab Plus Lenalidomide and Dexamethasone with/without Bortezomib in the Treatment of Newly Diagnosed Non-Frail Transplant Ineligible Multiple Myeloma Elderly Patients. IFM2020-05 Arthur Bobin¹, Cyrille Hulin, MD², Jerome Lambert, MDPhD³, Aurore Perrot, MDPhD⁴, Salomon Manier, MDPhD⁵, Lydia Montes, MD⁶, Arnaud Jaccard⁷, Lionel Karlin⁸, Pascal Godmer⁹, Denis Caillot, MD¹⁰, Thomas Chalopin, MD¹¹, Christophe Roul¹², Clara Mariette¹³, Sophie Rigaudeau, MD¹⁴, Jacques Delaunay¹⁵, Claire Dingremont¹⁶, Alberto Santagostino¹⁷, Mamoun Dib¹⁸, Margaret Macro, MD¹⁹, Mourad Tiab, MD²⁰, Kamel Laribi²¹, Emmanuelle Bourgeois Petit²², Claire Calmettes²³, Frederique Orsini Piocelle²⁴, Benoit Bareau²⁵, Reza Tabrizi²⁶, Laure Vincent, MD²⁷, Mohamad Mohty²⁸, Cyrille Touzeau, MD PhD²⁹, Jill Corre, PharmD, PhD³⁰, Philippe Moreau, MD PhD³¹, Thierry Facon, MD³², Herve Avet Loiseau, MD PhD³³, Xavier Leleu, MD^{34,35} ¹CHU Poitiers, Poitiers, France ²Centre Hospitalier Universitaire de Bordeaux, Pessac Cedex, FRA

- ³ Biostatistics and Medical Information Department, Saint Louis University Hospital, AP-HP, Université Paris Cité, Paris, FRA
- ⁴ Service Hematologie, Institut Universitaire du cancer de Toulouse-Oncopole, Toulouse, France
- ⁵Centre Hospitalier Universitaire Hôpital Huriez, Lille, France
- ⁶ Service d'Hématologie Clinique, Centre Hospitalier Universitaire Amiens-Picardie, Amiens, France
- ⁷Hematologie clinique, CHU de Limoges, HoPital Dupuytren, Limoges Cedex 1, FRA
- ⁸Hôpital Lyon Sud, Hospices Civils de Lyon, Pierre-Bénite, France
- ⁹CH Vannes, Vannes, FRA
- ¹⁰University Hospital INSERM UMR1231 and SAPHIIR-UMR 1231, University of Burgundy & France Comte, Dijon, France
- ¹¹Centre hospitalier universitaire de Tours, Hospital, Tours, FRA
- ¹²CH de La Rochelle, La Rochelle, FRA
- ¹³CHU de Grenoble, grenoble, France
- ¹⁴CH Versailles, Le Chesnay Rocquencourt, FRA
- ¹⁵Centre Hospitalo-Universitaire De Nantes, Nantes, FRA
- ¹⁶Ch de Tarbes, Tarbes, FRA
- ¹⁷CH Troyes, Troyes, FRA
- ¹⁸Chu Angers, Angers, FRA
- ¹⁹Hopital Cote De Nacre, Caen, France
- ²⁰Centre Hospitalier Departemental, La Roche Sur Yon Cedex 9, FRA
- ²¹Hematology Department, Le Mans Hospital, Le Mans, France
- ²²CHU Lille, Lille Cedex, FRA
- ²³CH de Périqueux, Périqueux, France
- ²⁴CH Metz, METZ TESSY, FRA
- ²⁵Cabinet Medicale, Rennes, FRA
- ²⁶CH Mont de marsan, Mont De Marsan, FRA
- ²⁷ Department of Clinical Hematology, Montpellier University Hospital Center, Montpellier, France
- ²⁸Hopital Saint Antoine, Paris, FRA
- ²⁹Centre Hospitalier Universitaire de Nantes, Nantes, France
- ³⁰Institut universitaire du cancer de Toulouse Oncopole, Toulouse, France
- ³¹University Hospital Hôtel-Dieu, Nantes, France
- ³²Department of Haematology, Lille University Hospital, Lille, France
- ³³ Unité Génomique du Myélome, University Hospital Toulouse, IUCT Oncopole, Toulouse, France
- ³⁴ Service D'Hématologie Et Thérapie Cellulaire, Poitiers, France
- ³⁵INSERM CIC-1042, Poitiers University Hospital, Poitiers, France

ONLINE PUBLICATION ONLY

Session 653

Background. The current standard of care for non-transplant eligible (NTE) newly diagnosed multiple myeloma (NDMM) is the combination of anti-CD38 immunotherapy daratumumab to lenalidomide-dexamethasone (DRd) on the basis of the Maia study (Facon et al. NEJM). This regimen has considerably improved the survival objectives for the study and the patients, PFS and OS. Interestingly, the MRD sustained 10-5 negative rate of DRd in MAIA is lower than 15%, alluding to the hypothesis that DRd may be immunogenic more than profoundly debulking in its main MOAs.

We and other have hypothesized that adding a proteasome inhibitor (PI) to antiCD38 IT +Rd combination would significantly increase the sustained MRD negativity rate and might improve even further survivals. Two phase 3 studies for registration investigate the role of adding antiCD38 IT to VRd (antiCD38VRd quadruplet-based combination versus VRd), questioning on the added value of antiCD38 to the old standard of care VRd. We believe it is of importance to study the added value of a PI to antiCD38 IT +Rd combination in comparison to antiCD38 IT +Rd (the optimal standard of care today in the NTE NDMM) to demonstrate the impact in debulking of the PI on top of the immunogenic effect with the study of the MRD negative rate. We therefore have conducted the present study of Isa-VRd compared to Isa-Rd (IFM2020-05/Benefit, (NCT04751877). Benefit has fully enrolled as of September 2022, and there has been no safety warnings from the safety committee with the prolonged use of bortezomib for 18 months on a weekly basis in combination to Isa-Rd.

Study Design and Methods. 270 NTE NDMM patients, aged [65-79] years old and non-frail, were randomized 1:1 and assigned to either the anti-CD38 mAb isatuximab + Rd (Isa-Rd) or isatuximab + VRd (Isa-VRd lite). Stratification across arms was done according to high-risk MM, age cutoff of 75 years and study centers. Patients receive isatuximab IV 10 mg/kg on days 1, 8, 15, and 22 of cycle 1, days 1 and 15 from cycle 2 to 12 and day 1 from cycle 13 onward, 28-day cycles. Lenalidomide and dexamethasone were given orally as approved. Bortezomib was administered weekly and subcutaneously on days 1, 8, 15 at 1.3 mg/m² from cycle 1 to 12 and on days 1, 15 from cycle 13 to 18, and then stopped. All patients will discontinue dexamethasone after cycle 12. Patients will then continue receiving Isa-Rd until progression in both arms.

The primary objective is to evaluate the MRD negativity rate at 10-5 at 18 months in both arms, sustained MRD being key secondary at [12-24] months. The study will be considered positive if the MRD negativity rate at 10-5 at 18 months is 30% in the Isa-VRd arm, and twice as much as Isa-Rd arm within the same time point. Key secondary objectives include the survival analysis (OS, PFS, EFS, TTNT), response rates, duration of response, and safety.

Conclusion. The study is estimated to read out March 2024, 18 months after the last patient enrolls.

Disclosures Hulin: Bristol Myers Squibb: Honoraria; Janssen: Honoraria; Amgen: Honoraria; Sanofi: Honoraria; AbbVie: Honoraria; Pfizer: Honoraria. **Perrot:** Abbvie, Adaptive, Amgen, BMS, Janssen, Pfizer, Sanofi, Takeda: Honoraria. **Manier:** Amgen: Honoraria; Janssen: Honoraria; BMS: Honoraria; Abbvie, Amgen, Celgene/BMS, GlaxoSmithKline, Janssen, Novartis, Pfizer, Regeneron, Roche, Sanofi, Takeda: Membership on an entity's Board of Directors or advisory committees. **Karlin:** Amgen, Celgene, GSK, Janssen, Takeda: Consultancy; AbbVie, Amgen, Celgene, Janssen, Sanofi: Takeda: Honoraria. **Macro:** Janssen, Takeda: Consultancy; AbbVie, Amgen, Celgene, Janssen, Sanofi: Honoraria. **Vincent:** BMS, Takeda: Membership on an entity's Board of Directors or advisory committees. **Karlin:** Amgen, Celgene, GSK, Sanofi: Honoraria, Other: Travel/accommodation, Research Funding; GSK, Sanofi: Honoraria. **Vincent:** BMS, Takeda: Membership on an entity's Board of Directors or advisory committees, Other: Financing meeting participation; Janssen: Honoraria, Membership on an entity's Board of Directors or advisory committees, Other: Financing meeting participation; Pfizer: Other: Financing meeting participation. **Touzeau:** Bristol Myers Squibb: Honoraria, Membership on an entity's Board of Directors or advisory committees, Other: Financing meeting participation; Pfizer: Other: Financing meeting participation. **Touzeau:** Bristol Myers Squibb: Honoraria; GSK: Honoraria, Other: advisory boards; GSK: Honoraria, Other: Advisory Board. **Leleu:** Sanofi: Honoraria; GSK: Honoraria; Janssen: Honoraria; Takeda: Honoraria; AbbVie: Honoraria; Harpoon Therapeutics: Honoraria; BMS/Celgene: Honoraria; Merck: Honoraria; Amgen: Honoraria.

https://doi.org/10.1182/blood-2023-185699