

IQWiG Reports - Commission No. A21-170

Daratumumab (multiple myeloma) –

Addendum to Commission A21-101¹

Addendum

Commission: A21-170Version:1.0Status:21 January 2022

¹ Translation of addendum A21-170 *Daratumumab (multiples Myelom) – Addendum zum Auftrag A21-101* (Version 1.0; Status: 21 January 2022). Please note: This document was translated by an external translator and is provided as a service by IQWiG to English-language readers. However, solely the German original text is absolutely authoritative and legally binding.

Publishing details

Publisher

Institute for Quality and Efficiency in Health Care

Topic

Daratumumab (multiple myeloma) - Addendum to Commission A21-101

Commissioning agency Federal Joint Committee

Commission awarded on 21 December 2021

Internal Commission No. A21-170

Address of publisher

Institut für Qualität und Wirtschaftlichkeit im Gesundheitswesen Im Mediapark 8 50670 Köln Germany

Phone: +49 221 35685-0 Fax: +49 221 35685-1 E-mail: <u>berichte@iqwig.de</u> Internet: <u>www.iqwig.de</u>

IQWiG employees involved in the addendum

- Katrin Nink
- Lisa Junge
- Jona Lilienthal
- Sabine Ostlender

Keywords: Daratumumab, Multiple Myeloma, Benefit Assessment, NCT03180736

Table of contents

Page

| List of tablesiv |
|--|
| List of figuresv |
| List of abbreviationsviii |
| 1 Background 1 |
| 2 Assessment |
| 2.1 Patient-reported outcomes2 |
| 2.2 Summary |
| 3 References5 |
| Appendix A Results of the subpopulation (APOLLO study)6 |
| Appendix B Figures on the analyses of the subpopulation (APOLLO study) |

List of tables

| P | Page |
|--|------|
| Table 1: Daratumumab in combination with pomalidomide and dexamethasone – probability and extent of added benefit | 4 |
| Table 2: Characteristics of the subpopulation – RCT, direct comparison: daratumumab + pomalidomide + dexamethasone vs. pomalidomide + dexamethasone | 6 |
| Table 3: Results (mortality, morbidity, health-related quality of life, side effects) – RCT, direct comparison: daratumumab + pomalidomide + dexamethasone vs. pomalidomide + dexamethasone, subpopulation | 8 |
| Table 4: Subgroups (health-related quality of life) – RCT, direct comparison: daratumumab + pomalidomide + dexamethasone vs. pomalidomide + dexamethasone, subpopulation | . 11 |
| Table 5: Results (morbidity, supplementary presentation) – RCT, direct comparison: daratumumab + pomalidomide + dexamethasone vs. pomalidomide + dexamethasone; 1 st data cut-off (21/07/2020), subpopulation | |

List of figures

| Page |) |
|---|---|
| Figure 1: Kaplan-Meier curves on overall survival, APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020) | |
| Figure 2: Kaplan-Meier curves on EORTC QLQ-C30, pain, time to definitive deterioration by ≥ 10 points, APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut- off: 21/07/2020) | Ļ |
| Figure 3: Kaplan-Meier curves on EORTC QLQ-C30, fatigue, time to definitive deterioration by \geq 10 points, APOLLO study, subpopulation of patients with \geq 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020) | i |
| Figure 4: Kaplan-Meier curves on EORTC QLQ-C30, nausea and vomiting, time to definitive deterioration by ≥ 10 points, APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020) | - |
| Figure 5: Kaplan-Meier curves on EORTC QLQ-C30, dyspnoea, time to definitive deterioration by ≥ 10 points, APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21 July 2020) | , |
| Figure 6: Kaplan-Meier curves on EORTC QLQ-C30, insomnia, time to definitive deterioration by \geq 10 points, APOLLO study, subpopulation of patients with \geq 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020) | , |
| Figure 7: Kaplan-Meier curves on EORTC QLQ-C30, appetite loss, time to definitive deterioration by \geq 10 points, APOLLO study, subpopulation of patients with \geq 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020) |) |
| Figure 8: Kaplan-Meier curves on EORTC QLQ-C30, constipation, time to definitive deterioration by \geq 10 points, APOLLO study, subpopulation of patients with \geq 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020) |) |
| Figure 9: Kaplan-Meier curves on EORTC QLQ-C30, diarrhoea, time to definitive deterioration by \geq 10 points, APOLLO study, subpopulation of patients with \geq 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020) | |
| Figure 10: Kaplan-Meier curves on EORTC QLQ-MY20, disease symptoms, time to definitive deterioration by \geq 10 points, APOLLO study, subpopulation of patients with \geq 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020) |) |

| Addendum A21-170 | Version 1.0 |
|--|----------------------------|
| Daratumumab – Addendum to Commission A21-101 | 21 January 2022 |
| Figure 11: Kaplan-Meier curves on EORTC QLQ-MY20, side effects of the definitive deterioration by ≥ 10 points, APOLLO study, subpopulation o with ≥ 2 prior lines of therapy and disease progression on the most recent therapy (data cut-off: 21/07/2020) | of patients nt line of |
| Figure 12: Kaplan-Meier curves on EQ-5D VAS, time to definitive deteriora \geq 15 points, APOLLO study, subpopulation of patients with \geq 2 prior line and disease progression on the most recent line of therapy (data cut-off: | ntion by nes of therapy |
| Figure 13: Kaplan-Meier curves on EORTC QLQ-C30, global health status, definitive deterioration by ≥ 10 points, APOLLO study, subpopulation o with ≥ 2 prior lines of therapy and disease progression on the most recent therapy (data cut-off: 21/07/2020) | of patients nt line of |
| Figure 14: Kaplan-Meier curves on EORTC QLQ-C30, physical functioning definitive deterioration by ≥ 10 points, APOLLO study, subpopulation o with ≥ 2 prior lines of therapy and disease progression on the most recent therapy (data cut-off: 21/07/2020) | of patients nt line of |
| Figure 15: Kaplan-Meier curves on EORTC QLQ-C30, role functioning, time definitive deterioration by ≥ 10 points, APOLLO study, subpopulation of with ≥ 2 prior lines of therapy and disease progression on the most recent therapy (data cut-off: 21/07/2020) | of patients nt line of |
| Figure 16: Kaplan-Meier curves on EORTC QLQ-C30, emotional functioning definitive deterioration by ≥ 10 points, APOLLO study, subpopulation of with ≥ 2 prior lines of therapy and disease progression on the most recent therapy (data cut-off: 21/07/2020) | of patients at line of |
| Figure 17: Kaplan-Meier curves on EORTC QLQ-C30, cognitive functioning definitive deterioration by ≥ 10 points, APOLLO study, subpopulation of with ≥ 2 prior lines of therapy and disease progression on the most recent therapy (data cut-off: 21/07/2020) | of patients at line of |
| Figure 18: Kaplan-Meier curves on EORTC QLQ-C30, social functioning, the definitive deterioration by ≥ 10 points, subgroup analysis by age (< 65 y APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy progression on the most recent line of therapy (data cut-off: 21/07/2020) | ears), y and disease |
| Figure 19: Kaplan-Meier curves on EORTC QLQ-C30, social functioning, the definitive deterioration by ≥ 10 points, subgroup analysis by age (≥ 65 y APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy progression on the most recent line of therapy (data cut-off: 21/07/2020) | ears), and disease |
| Figure 20: Kaplan-Meier curves on EORTC QLQ-MY20, future perspective definitive deterioration by ≥ 10 points, APOLLO study, subpopulation o with ≥ 2 prior lines of therapy and disease progression on the most recent therapy (data cut-off: 21/07/2020) | of patients nt line of |
| Figure 21: Kaplan-Meier curves on QLQ-MY20, body image, time to definit deterioration by ≥ 10 points, subgroup analysis by sex (male), APOLLO subpopulation of patients with ≥ 2 prior lines of therapy and disease prog the most recent line of therapy (data cut-off: 21/07/2020) | study, gression on |

| Addendum A21-170 | Version 1.0 |
|--|-------------------------------|
| Daratumumab – Addendum to Commission A21-101 | 21 January 2022 |
| | ~ |
| Figure 22: Kaplan-Meier curves on QLQ-MY20, body image, time to deterioration by ≥ 10 points, subgroup analysis by sex (female), APC subpopulation of patients with ≥ 2 prior lines of therapy and disease performing the most recent line of therapy (data cut-off: 21/07/2020) | DLLO study, progression on |
| Figure 23: Kaplan-Meier curves on SAEs, APOLLO study, subpopulatio ≥ 2 prior lines of therapy and disease progression on the most recent (data cut-off: 15/11/2020) | line of therapy |
| Figure 24: Kaplan-Meier curves on severe AEs (CTCAE grade \geq 3), APC subpopulation of patients with \geq 2 prior lines of therapy and disease pathe most recent line of therapy (data cut-off: 15/11/2020) | progression on |
| Figure 25: Kaplan-Meier curves on discontinuation due to AEs (≥ 1 drug APOLLO study, subpopulation of patients with ≥ 2 prior lines of the progression on the most recent line of therapy (data cut-off: 15/11/20) | rapy and disease |
| Figure 26: Kaplan-Meier curves on lymphopoenia (PT, severe AEs), APG subpopulation of patients with ≥ 2 prior lines of therapy and disease pathe most recent line of therapy (data cut-off: $15/11/2020$) | progression on |
| Figure 27: Kaplan-Meier curves on febrile neutropenia (PT, severe AEs), study, subpopulation of patients with ≥ 2 prior lines of therapy and d progression on the most recent line of therapy (data cut-off: 15/11/20) | isease |

List of abbreviations

| Abbreviation | Meaning |
|----------------|---|
| G-BA | Gemeinsamer Bundesausschuss (Federal Joint Committee) |
| EORTC QLQ-C30 | European Organisation for Research and Treatment of Cancer – Quality of Life Questionnaire – Core 30 |
| EORTC QLQ-MY20 | European Organisation for Research and Treatment of Cancer – Quality of Life Questionnaire – Multiple Myeloma 20 |
| EQ-5D | European Quality of Life 5 Dimensions |
| IQWiG | Institut für Qualität und Wirtschaftlichkeit im Gesundheitswesen (Institute for Quality and Efficiency in Health Care) |
| RCT | randomized controlled trial |
| VAS | visual analogue scale |

1 Background

On 21 December 2021, the Federal Joint Committee (G-BA) commissioned the Institute for Quality and Efficiency in Health Care (IQWiG) to conduct supplementary assessments for Commission A21-101 (Daratumumab – benefit assessment according to §35a Social Code Book V) [1].

For assessing the benefit of daratumumab in adult patients with multiple myeloma who have received ≥ 2 prior lines of therapy containing lenalidomide and a proteasome inhibitor and demonstrated disease progression on or after the most recent line of therapy (research question 2 of the dossier assessment), the randomized controlled trial (RCT) APOLLO was included. This study compared daratumumab in combination with pomalidomide + dexamethasone versus pomalidomide + dexamethasone. The assessment was based on a study subpopulation which comprises patients with disease progression either on or after the most recent line of therapy and therefore also contains patients who are not therapeutically indicated for pomalidomide + dexamethasone (i.e. patients who demonstrated disease progression on the most recent line of therapy). Since the percentage of patients with disease progression on the most recent line of therapy was sufficiently large, this subpopulation was used to derive added benefit. With its comments [2], the pharmaceutical company (hereinafter "company") has submitted data on the subpopulation of patients with disease progression on the most recent line of therapy, including analyses based on new operationalizations of patient-reported outcomes.

The G-BA commissioned IQWiG with the below assessment of the analyses submitted by the company in the commenting procedure, taking into account the information provided in the dossier:

- Analysis of time to (confirmed) definitive deterioration of patient-reported outcomes.
- Where necessary, analysis of the assessment-relevant subpopulation of patients with disease progression on the most recent line of therapy. Where possible, a summary consideration of the extent to which the results presented in the written commenting procedure led to changes in the conclusion on added benefit is deemed sufficient.

The responsibility for the present assessment and the assessment result lies exclusively with IQWiG. The assessment is forwarded to the G-BA. The G-BA decides on the added benefit.

2 Assessment

2.1 Patient-reported outcomes

In its dossier, the company presented responder analyses with the operationalization of time to first deterioration or improvement by a relevant response threshold [3]. The following analyses of time to deterioration were used in the benefit assessment:

- Morbidity
 - Symptoms surveyed using the European Organisation for Research and Treatment of Cancer – Quality of Life Questionnaire – Core 30 (EORTC QLQ-C30) and the EORTC QLQ Multiple Myeloma 20 (EORTC QLQ-MY20): time to deterioration by ≥ 10 points
 - Health status, surveyed using the European Quality of Life 5 Dimensions (EQ-5D) visual analogue scale (VAS): time to deterioration by ≥ 15 points
- Health-related quality of life
 - ^a Surveyed with the EORTC QLQ-C30 and EORTC QLQ-MY20: time to deterioration $by \ge 10$ points

With its comments, the company presented analyses using new operationalizations of time to deterioration/improvement by various response thresholds of the above survey instruments. The company refers to these operationalizations as time to definitive deterioration/improvement and time to confirmed definitive deterioration/improvement. As in the dossier assessment [1], only deterioration was included in the analysis. This is in line with the G-BA's commission.

Relevance of the analyses subsequently submitted

The operationalizations of patient-reported outcomes (time to first deterioration) used in the analyses of the company's dossier were already suitable. This analysis method was predefined in the statistical analysis plan. The company justifies its presentation of new analyses in its comments with the additional relevance of time to definitive deterioration in the indication of multiple myeloma, citing the procedure for isatuximab [4,5]. In the latter procedure, definitive deterioration was deemed more relevant. However, in this data situation, analyses on both first and definitive deterioration had already been presented in the dossier, rather than being submitted after the assessment of the data initially submitted in the dossier (dossier assessment).

In the present situation, it is therefore impossible to rule out reporting bias. While the subsequently submitted analyses on definitive deterioration are generally suitable analyses, the argument of potential reporting bias carries greater weight in this case. The subsequently submitted analyses on definitive deterioration were therefore excluded from the derivation of added benefit. The results are presented, as contractually agreed upon, as additional information in Appendix A.

Operationalization of definitive deterioration in the subsequently submitted analyses

Both operationalizations submitted with the company's comments, definitive and confirmed definitive deterioration, are defined as a deterioration by the respective response criterion compared to baseline, with the response criterion deemed met in all subsequent follow-up visits until the end of follow-up. Like in the dossier, death due to progression was not defined as deterioration. The two operationalizations differ, however, in the handling of patients who reported a single deterioration at the last survey time point:

- Time to definitive deterioration: patients who reported a single deterioration at the last survey time point are classified as responders.
- Time to confirmed definitive deterioration: patients who reported a single deterioration at the last survey time point are classified as non-responders.

In principle, a single deterioration at the last survey time point does not represent definitive deterioration. All things considered, only the operationalization designated by the company as confirmed definitive deterioration therefore comprises patients who deteriorated definitively, that is, in at least 2 consecutive surveys. Below, the term "definitive deterioration" is used only for this operationalization, and this operationalization is presented as supplementary information in Appendix A.

Supplementary presentation of the results of patients with disease progression on the most recent line of therapy

The company presented the analyses of definitive deterioration in patient-reported outcomes only for the subpopulation of patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy. To provide context for these new analyses, Appendix A additionally presents, as supplementary information, patient characteristics as well as results for the remaining outcomes, specific AEs, and subgroup analyses for this subpopulation.

2.2 Summary

The data subsequently submitted by the company in the commenting procedure do not change the conclusion on the added benefit of daratumumab drawn in dossier assessment A21-101.

The following Table 1 shows the results of the benefit assessment of daratumumab in consideration of dossier assessment A21-101 and the present addendum.

| Resear ch questio n | Therapeutic indication | ACT ^a | Probability and extent of added benefit |
|------------------------------|---|--|---|
| 1 | Adult patients with multiple myeloma who have received 1 prior line of therapy with a proteasome inhibitor and lenalidomide and were refractory to lenalidomide ^b | Bortezomib in combination with pegylated liposomal doxorubicin or Bortezomib in combination with dexamethasone, or Carfilzomib in combination with dexamethasone, or Daratumumab in combination with bortezomib and dexamethasone | Added benefit not proven |
| 2 | Adult patients with multiple myeloma who have received ≥ 2 prior lines of therapy containing lenalidomide and a proteasome inhibitor and demonstrated disease progression on or after the most recent line of therapy ^b | Bortezomib in combination with dexamethasone, or Lenalidomide in combination with dexamethasone, or Pomalidomide in combination with dexamethasone (only for patients with disease progression on the most recent line of therapy) or Elotuzumab in combination with lenalidomide and dexamethasone, or Elotuzumab in combination with pomalidomide and dexamethasone (only for patients with disease progression on the most recent line of therapy) or Carfilzomib in combination with lenalidomide and dexamethasone, or Carfilzomib in combination with lenalidomide and dexamethasone, or Carfilzomib in combination with lenalidomide and dexamethasone, or Daratumumab in combination with lenalidomide and dexamethasone, or Daratumumab in combination with lenalidomide and dexamethasone, or | Added benefit not proven |

| Table 1: Daratumumab in combination with pomalidomide and dexamethasone – probability |
|---|
| and extent of added benefit |

allows the company to choose a comparator therapy from several options, the respective choice of the company is printed in bold.b. It is assumed that high-dose chemotherapy with stem cell transplantation is not an option for the patients at

b. It is assumed that high-dose chemotherapy with stem cell transplantation is not an option for the patie the time point of their current treatment.

ACT: appropriate comparator therapy; G-BA: Federal Joint Committee

The G-BA decides on the added benefit.

3 References

1. Institut für Qualität und Wirtschaftlichkeit im Gesundheitswesen. Daratumumab (multiples Myelom) – Nutzenbewertung gemäß § 35a SGB V; Dossierbewertung [online]. 2021 [Accessed: 04.11.2021]. URL: <u>https://www.iqwig.de/download/a21-</u> 101_daratumumab_nutzenbewertung-35a-sgb-v_v1-0.pdf.

2. Janssen-Cilag. Stellungnahme zum IQWiG-Bericht Nr. 1231: Daratumumab (multiples Myelom); Nutzenbewertung gemäß § 35a SGB V. [Soon available under: <u>https://www.g-ba.de/bewertungsverfahren/nutzenbewertung/725/#beschluesse</u> in the document "Zusammenfassende Dokumentation"].

3. Janssen-Cilag. Daratumumab (Darzalex); Dossier zur Nutzenbewertung gemäß § 35a SGB V [online]. 2021 [Accessed: 22.12.2021]. URL: <u>https://www.g-ba.de/bewertungsverfahren/nutzenbewertung/725/#dossier</u>.

4. Institut für Qualität und Wirtschaftlichkeit im Gesundheitswesen. Isatuximab (multiples Myelom nach \geq 2 Vortherapien); Addendum zum Auftrag A21-61 [online]. 2021 [Accessed: 13.01.2022]. URL: <u>https://www.iqwig.de/download/a21-124_isatuximab_addendum-zum-auftrag-a21-61_v1-0.pdf</u>.

5. Gemeinsamer Bundesausschuss. Tragende Gründe zum Beschluss des Gemeinsamen Bundesausschusses über eine Änderung der Arzneimittel-Richtlinie (AM-RL): Anlage XII – Nutzenbewertung von Arzneimitteln mit neuen Wirkstoffen nach § 35a SGB V Isatuximab (Multiples Myelom, mind. 2 Vortherapien, Kombination mit Pomalidomid und Dexamethason) [online]. 2021 [Accessed: 11.01.2022]. URL: <u>https://www.g-</u> ba.de/downloads/40-268-7999/2021-11-04 AM-RL-XII Isatuximab D-675 TrG.pdf.

Appendix A Results of the subpopulation (APOLLO study)

| Table 2: Characteristics of the subpopulation ^a – RCT, direct comparison: daratumumab + |
|--|
| pomalidomide + dexamethasone vs. pomalidomide + dexamethasone (multipage table) |

| Study Characteristic Category | Daratumumab + pomalidomide + dexamethasone N ^b = 106 | Pomalidomide + dexamethasone N ^b = 105 |
|---|--|---|
| APOLLO | | |
| Age [years], mean (SD) | 65 (10) | 67 (9) |
| Sex [f/m], % | 48/52 | 41/59 |
| Ancestry, n (%) | | |
| White | 96 (91) | 93 (89) |
| Black or African American | 1(1) | 0 (0) |
| Asian | 1 (1) | 1 (1) |
| Unknown | 8 (8) | 11 (10) |
| ECOG-PS at randomization, n (%) | | |
| 0 | 68 (64) | 48 (46) |
| ≥ 1 | 38 (36) | 57 (54) |
| ISS stage at baseline, n (%) | | |
| Ι | 46 (43) | 42 (40) |
| II | 33 (31) | 39 (37) |
| III | 27 (26) | 24 (23) |
| R-ISS stage, n (%) | | |
| Ι | 17 (16) | 15 (14) |
| II | 51 (48) | 65 (62) |
| III | 16 (15) | 11 (10) |
| Missing | 22 (21) ^c | 14 (13)° |
| Cytogenetic risk group, n (%) | | |
| Standard risk | 43 (41) | 50 (48) |
| High risk ^d | 32 (30) | 24 (23) |
| Missing | 31 (29) ^c | 31 (30)° |
| Myeloma type based on immunofixation, n (%) | | |
| IgG | 60 (57) | 60 (57) |
| IgA | 22 (21) | 17 (16) |
| IgM | 0 (0) | 0 (0) |
| IgD | 1(1) | 2 (2) |
| Light chain | 19 (18) | 23 (22) |
| Kappa | 7 (7) | 15 (14) |
| Lambda | 12 (11) | 8 (8) |
| Biclonal | 1 (1) | 0 (0) |
| Negative immune fixation | 3 (3) | 3 (3) |
| Disease duration: time between first diagnosis and randomization [months], mean (SD) | 4.9 (2.9) | 5.4 (3.6) |

| Study Characteristic Category | Daratumumab + pomalidomide + dexamethasone N ^b = 106 | Pomalidomide + dexamethasone N ^b = 105 |
|---|--|---|
| Number of prior therapies, n (%) | | |
| 2–3 | 90 (85) | 87 (83) |
| \geq 4 | 16 (15) | 18 (17) |
| Prior therapies, n (%) | | |
| Alkylating drugs | 97 (92) | 96 (91) |
| Anthracyclines | 29 (27) | 27 (26) |
| PI + IMiD | 106 (10) | 105 (10) |
| PI + IMiD + alkylating agents | 97 (92) | 96 (91) |
| Bortezomib + lenalidomide | 103 (97) | 101 (96) |
| Elotuzumab | 6 (6) | 5 (5) |
| Panobinostat | 1 (1) | 5 (5) |
| Bortezomib + lenalidomide + carfilzomib | 25 (24) | 31 (30) |
| Bortezomib + lenalidomide + carfilzomib + thalidomide | 13 (12) | 14 (13) |
| Refractory to prior lines of therapy, n (%) | | |
| of the most recent prior line of therapy | 106 (100) | 105 (100) |
| Lenalidomide in the most recent line of therapy | 78 (74)° | 72 (69) ^c |
| PI | 66 (49) ^{c, e} | 69 (51) ^{c, e} |
| IMiD | 103 (76) ^{c, e} | 104 (77) ^{c, e} |
| PI and IMiD | 59 (44) ^{c, e} | 59 (44) ^{c, e} |
| Treatment discontinuation, n (%) | ND^{f} | ND^{f} |
| Study discontinuation, n (%) | ND^{f} | ND^{f} |

| Table 2: Characteristics of the subpopulation ^a – RCT, direct comparison: daratumumab + |
|--|
| pomalidomide + dexamethasone vs. pomalidomide + dexamethasone (multipage table) |

a. Patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy.

b. Number of randomized patients. Values that are based on other patient numbers are marked in the corresponding line if the deviation is relevant.

c. IQWiG calculation.

d. Positive for del(17p), t(4;14), or t(14;16).

e. Data based on the APOLLO subpopulation (daratumumab + pomalidomide + dexamethasone: N = 135; pomalidomide + dexamethasone: N = 135) assessed in A21-101.

f. Data for the total population of the APOLLO study are found in dossier assessment A21-101 [1].

ECOG PS: Eastern Cooperative Oncology Group Performance Status; f: female; Ig: immunoglobulin; IMiD: immunomodulatory drug; IQWiG: Institute for Quality and Efficiency in Health Care; ISS: international staging system; m: male; n: number of patients in the category; N: number of randomized patients; PI: proteasome inhibitor; RCT: randomized controlled trial; R-ISS: Revised International Staging System; SD: standard deviation

21 January 2022

Table 3: Results (mortality, morbidity, health-related quality of life, side effects) - RCT, direct comparison: daratumumab + pomalidomide + dexamethasone vs. pomalidomide + dexamethasone, subpopulation^a (multipage table)

| Study Outcome category Outcome | | Daratumumab + pomalidomide + dexamethasone | | Pomalidomide + dexamethasone | Daratumumab + pomalidomide + dexamethasone vs. pomalidomide + dexamethasone |
|---|---------|--|-----|---|---|
| | N | Median time to event in months [95% CI] | N | Median time to event in months [95% CI] | HR [95% CI]; p-value ^b |
| | | Patients with event n (%) | | Patients with event n (%) | |
| APOLLO | | | | | |
| Mortality (1 st data cut-off | , 21/0 | 7/2020) | | | |
| Overall survival | 106 | NR [18.79; NC] 35 (33.0) | 105 | 20.27 [15.47; NC] 41 (39.0) | 0.78 [0.49; 1.24]; 0.299 |
| Morbidity (1 st data cut-of | f, 21/(| 07/2020) | | | |
| Symptoms (EORTC QLC | Q-C30 |) ^c | | | |
| Pain | 106 | NR [20.73; NC] 23 (21.7) | 105 | 25.27 [13.04; NC] 25 (23.8) | 0.66 [0.36; 1.19]; 0.168 |
| Fatigue | 106 | 25.00 [18.69; 35.45] 35 (33.0) | 105 | 12.95 [8.35; 16.92] 43 (41.0) | 0.51 [0.32; 0.83]; 0.007 |
| Nausea and vomiting | 106 | NR 9 (8.5) | 105 | NR 10 (9.5) | 0.75 [0.30; 1.87]; 0.535 |
| Dyspnoea | 106 | NR [29.63; NC] 8 (7.5) | 105 | 24.34 [18.92; NC] 11 (10.5) | 0.45 [0.17; 1.18]; 0.104 |
| Insomnia | 106 | NR 12 (11.3) | 105 | NR [19.98; NC] 13 (12.4) | 0.81 [0.36; 1.80]; 0.602 |
| Appetite loss | 106 | NR [27.80; NC] 12 (11.3) | 105 | NR 12 (11.4) | 0.70 [0.31; 1.61]; 0.404 |
| Constipation | 106 | NR [21.82; NC] 12 (11.3) | 105 | NR [17.77; NC] 16 (15.2) | 0.56 [0.26; 1.22]; 0.146 |
| Diarrhoea | 106 | NR [29.63; NC] 8 (7.5) | 105 | 24.34 [18.92; NC] 11 (10.5) | 0.45 [0.17; 1.18]; 0.104 |
| Symptoms (EORTC QLC | Q-MY | 20)° | | | |
| Disease-related symptoms | 106 | NR 16 (15.1) | 105 | NR [18.66; NC] 18 (17.1) | 0.67 [0.33; 1.33]; 0.247 |
| Side effects of therapy | 106 | 24.87 [18.27; NC] 21 (19.8) | 105 | 24.34 [14.03; NC] 22 (21.0) | 0.65 [0.35; 1.22]; 0.182 |
| Health status (EQ-5D VAS) ^d | 106 | NR [19.32; NC] 23 (21.7) | 105 | NR [18.99; NC] 17 (16.2) | 1.12 [0.59; 2.13]; 0.724 |

| Addendum A21-170 | Version 1.0 |
|--|-----------------|
| Daratumumab – Addendum to Commission A21-101 | 21 January 2022 |

Table 3: Results (mortality, morbidity, health-related quality of life, side effects) – RCT, direct comparison: daratumumab + pomalidomide + dexamethasone vs. pomalidomide + dexamethasone, subpopulation^a (multipage table)

| Study Outcome category Outcome | Daratumumab + pomalidomide + dexamethasone | | | Pomalidomide + dexamethasone | Daratumumab + pomalidomide + dexamethasone vs. pomalidomide + dexamethasone | |
|---|--|---|-----|---|---|--|
| | N | Median time to event in months [95% CI] Patients with event n (%) | N | Median time to event in months [95% CI] Patients with event n (%) | HR [95% CI]; p-value ^b | |
| Health-related quality of l 21/07/2020) | life (1 | st data cut-off, | | | | |
| EORTC QLQ-C30 ^e | | | | | | |
| Global health status | 106 | 25.00 [19.45; NC] 25 (23.6) | 105 | 24.34 [16.53; 27.53] 21 (20.0) | 0.84 [0.46; 1.55]; 0.586 | |
| Physical functioning | 106 | 27.60 [18.69; NC] 28 (26.4) | 105 | 20.20 [14.03; NC] 28 (26.7) | 0.82 [0.49; 1.40]; 0.474 | |
| Role functioning | 106 | 23.16 [19.19; 35.45] 31 (29.2) | 105 | 20.04 [18.14; 24.15] 29 (27.6) | 0.77 [0.45; 1.31]; 0.335 | |
| Emotional functioning | 106 | NR [20.73; NC] 17 (16.0) | 105 | 20.20 [9.56; NC] 31 (29.5) | 0.36 [0.19; 0.67]; 0.001 | |
| Cognitive functioning | 106 | 25.00 [16.79; 32.69] 31 (29.2) | 105 | 18.20 [11.27; NC] 26 (24.8) | 0.74 [0.43; 1.29]; 0.292 | |
| Social functioning | 106 | 28.71 [19.61; NC] 27 (25.5) | 105 | 21.59 [13.31; NC] 27 (25.7) | 0.71 [0.40; 1.25]; 0.231 | |
| EORTC QLQ-MY20 ^e | | | | | | |
| Future perspective | 106 | NR [17.41; NC] 24 (22.6) | 105 | 17.05 [10.55; 20.20] 33 (31.4) | 0.57 [0.33; 0.97]; 0.040 | |
| Body image | 106 | 20.53 [18.43; 32.69] 28 (26.4) | 105 | 20.89 [16.79; 24.15] 19 (18.1) | 0.95 [0.52; 1.77]; 0.882 | |
| Side effects (2 nd data cut-o | off, 15 | 5/11/2020) | | | | |
| AEs (supplementary information) | 104 | 0.26 [0.20; 0.33] 101 (97.1) | 102 | 0.23 [0.07; 0.26] 100 (98.0) | _ | |
| SAEs | 104 | 14.26 [7.75; 17.71] 54 (51.9) | 102 | 14.29 [6.50; NC] 44 (43.1) | 1.16 [0.78; 1.74]; 0.470 | |
| Severe AEs ^f | 104 | 0.64 [0.49; 0.72] 89 (85.6) | 102 | 0.72 [0.66; 0.72] 89 (87.3) | 1.05 [0.78; 1.42]; 0.747 | |
| Discontinuation due to AEs (≥ 1 drug component) | 104 | NR 4 (3.8) | 102 | NR 3 (2.9) | 0.95 [0.21; 4.32]; 0.944 | |
| Lymphopoenia (PT, severe AEs ^f) | 104 | NR 14 (13.5) | 102 | NR 2 (2.0) | 7.42 [1.68; 32.85]; 0.008 | |
| Febrile neutropenia (PT, severe AEs ^f) | 104 | NR 9 (8.7) | 102 | NR 1 (1.0) | 8.75 [1.11; 69.23]; 0.040 | |

| Addendum A21-170 | Version 1.0 | |
|--|-----------------|--|
| Daratumumab – Addendum to Commission A21-101 | 21 January 2022 | |

Table 3: Results (mortality, morbidity, health-related quality of life, side effects) – RCT, direct comparison: daratumumab + pomalidomide + dexamethasone vs. pomalidomide + dexamethasone, subpopulation^a (multipage table)

| Study Outcome category Outcome | | Daratumumab + pomalidomide + dexamethasone | | Pomalidomide + dexamethasone | Daratumumab + pomalidomide + dexamethasone vs. pomalidomide + dexamethasone |
|--------------------------------------|---|--|---|---|---|
| | N | Median time to event in months [95% CI] | N | Median time to event in months [95% CI] | HR [95% CI]; p-value ^b |
| | | Patients with event n (%) | | Patients with event n (%) | |

a. Patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy.

b. HR (including 95% CI) and p-value calculated using a Cox proportional hazards model with treatment as the only explanatory variable, stratified by number of prior lines of therapy (2–3 vs. ≥ 4) and ISS stage (I vs. II vs. III); p-value for overall survival calculated using log rank test, stratified by number of prior lines of therapy (2–3 vs. ≥ 4) and ISS stage (I vs. II vs. III).

c. Time to definitive deterioration; a score increase by ≥ 10 points from baseline is defined as a clinically relevant deterioration (scale range 0 to 100). Corresponds to the operationalization of confirmed definitive deterioration as presented the company's comments.

d. Time to definitive deterioration; a score decrease by ≥ 15 points from baseline is defined as a clinically relevant deterioration (scale range 0 to 100). Corresponds to the operationalization of confirmed definitive deterioration as presented the company's comments.

e. Time to definitive deterioration; a score decrease by ≥ 10 points from baseline is defined as a clinically relevant deterioration (scale range 0 to 100). Corresponds to the operationalization of confirmed definitive deterioration as presented the company's comments.

f. Operationalized as CTCAE grade \geq 3.

CI: confidence interval; CTCAE: Common Terminology Criteria for Adverse Events; EORTC QLQ-C30: European Organisation for Research and Treatment of Cancer Quality of Life Questionnaire-Core 30; EORTC QLQ-MY20: European Organization for Research and Treatment of Cancer Quality of Life Questionnaire Myeloma Module 20; HR: hazard ratio; ISS: International Staging System; n: number of patients with (at least 1) event; N: number of analysed patients; NC: not calculable; ND: no data; NR: not reached; RCT: randomized controlled trial; VAS: visual analogue scale Table 4: Subgroups (health-related quality of life) – RCT, direct comparison: daratumumab + pomalidomide + dexamethasone vs. pomalidomide + dexamethasone, subpopulation^a

| Study Outcome Characteristic Subgroup | Daratumumab + pomalidomide + dexamethasone | | Pomalidomide + dexamethasone | Daratumumab + pomalidomide + dexamethasone vs. pomalidomide + dexamethasone | | |
|--|--|---|---------------------------------|---|--------------------------|--------------------------|
| N | | Median time to event in months [95% CI] | N | Median time to event in months [95% CI] | HR [95% CI] ^b | p- value ^b |
| | | Patients with event n (%) | | Patients with event n (%) | | |
| APOLLO | | | | | | |
| EORTC QLQ-C30 s | ocial fur | actioning ^c (1 st data cut- | -off, 2 | 21/07/2020) | | |
| Age | | | | | | |
| < 65 years | 45 | NR [13.21; NC] 11 (24.4) | 37 | NR 4 (10.8) | 2.21 [0.70; 6.97] | 0.176 |
| \geq 65 years | 61 | 28.71 [19.61; NC] 16 (26.2) | 68 | 15.90 [8.15; NC] 23 (33.8) | 0.46 [0.23; 0.90] | 0.023 |
| Total | | | | | Interaction: | 0.022 |
| EORTC QLQ-MY20 |) body ir | nage ^c (1 st data cut-off, | 21/07 | 7/2020) | | |
| Sex | | | | | | |
| Male | 55 | 20.53 [13.50; 32.69] 19 (34.5) | 62 | 24.15 [23.85; NC] 7 (11.3) | 2.09 [0.86; 5.06] | 0.104 |
| Female | 51 | 21.82 [19.61; NC] 9 (17.6) | 43 | 13.83 [11.66; 20.89] 12 (27.9) | 0.27 [0.11; 0.69] | 0.006 |
| | | | | | Interaction: | |

c. Time to definitive deterioration; a score decrease by ≥ 10 points from baseline is defined as a clinically relevant deterioration (scale range 0 to 100). Corresponds to the operationalization of confirmed definitive deterioration as presented the company's comments.

CI: confidence interval; EORTC QLQ-C30: European Organisation for Research and Treatment of Cancer Quality of Life Questionnaire-Core 30; EORTC QLQ-MY20: European Organization for Research and Treatment of Cancer Quality of Life Questionnaire Myeloma Module 20; HR: hazard ratio; n: number of patients with event; N: number of analysed patients; NC: not calculable; NR: not reached; RCT: randomized controlled trial

| Addendum A21-170 | Version 1.0 |
|--|-----------------|
| Daratumumab – Addendum to Commission A21-101 | 21 January 2022 |

Table 5: Results (morbidity, supplementary presentation) – RCT, direct comparison: daratumumab + pomalidomide + dexamethasone vs. pomalidomide + dexamethasone; 1st data cut-off (21/07/2020), subpopulation^a

| Study Outcome category Outcome | Daratumumab + pomalidomide + dexamethasone | | | Pomalidomide + dexamethasone | Daratumumab + pomalidomide + dexamethasone vs. pomalidomide + dexamethasone | |
|---|--|---|-----|---|---|--|
| | Ν | Median time to event in months [95% CI] | N | Median time to event in months [95% CI] | HR [95% CI]; p-value ^b | |
| | | Patients with event n (%) | | Patients with event n (%) | | |
| APOLLO | | | | | | |
| Morbidity | | | | | | |
| Health status (EQ-5D VAS) | | | | | | |
| Definitive deterioration by ≥ 7 points ^c | 106 | 20.73 [17.77; NC] 32 (30.2) | 105 | 17.05 [11.30; 27.53] 34 (32.4) | 0.81 [0.49; 1.33]; 0.409 | |
| Definitive deterioration by ≥ 10 points ^c | 106 | 20.73 [19.45; NC] 31 (29.2) | 105 | 18.99 [11.30; NC] 31 (29.5) | 0.88 [0.53; 1.47]; 0.635 | |

a. Patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy.
b. HR (including 95% CI) and p-value, calculated using a Cox proportional hazards model with treatment as the only explanatory variable, stratified by the number of prior lines of therapy $(2-3 \text{ versus} \ge 4)$ and ISS stage (I versus II versus III).

c. Corresponds to the operationalization of confirmed definitive deterioration as used in the company's comments.

CI: confidence interval; HR: hazard ratio; ISS: International Staging System; n: number of patients with (at least 1) event; N: number of analysed patients; NC: not calculable; RCT: randomized controlled trial; VAS: visual analogue scale

Appendix B Figures on the analyses of the subpopulation (APOLLO study)

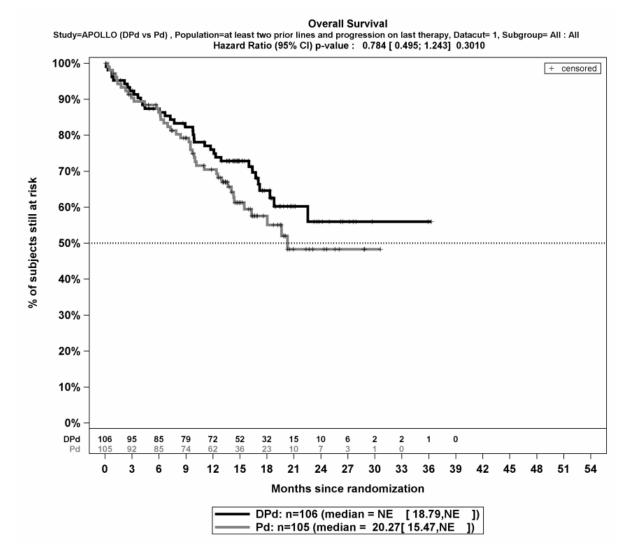


Figure 1: Kaplan-Meier curves on overall survival, APOLLO study, subpopulation of patients with \geq 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020)

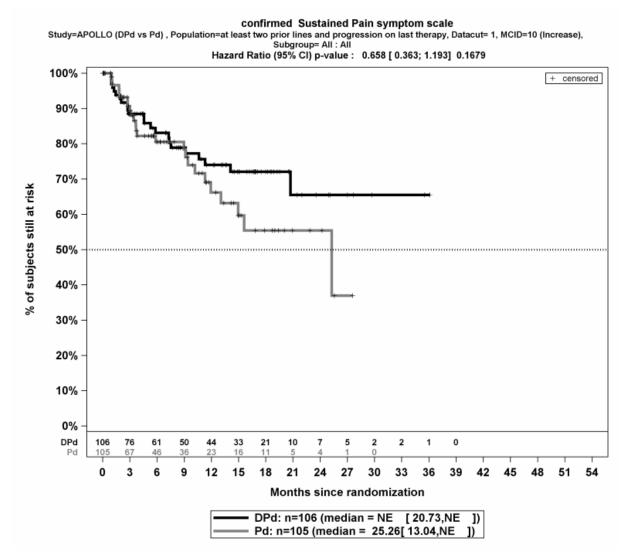


Figure 2: Kaplan-Meier curves on EORTC QLQ-C30, pain, time to definitive deterioration by ≥ 10 points, APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020)

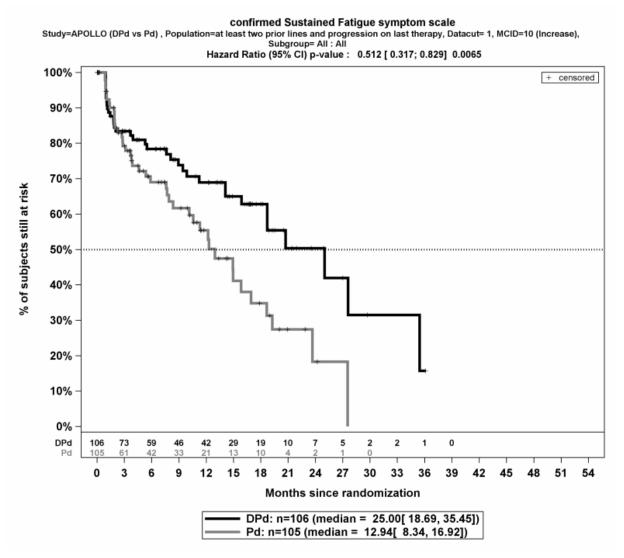


Figure 3: Kaplan-Meier curves on EORTC QLQ-C30, fatigue, time to definitive deterioration by ≥ 10 points, APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020)

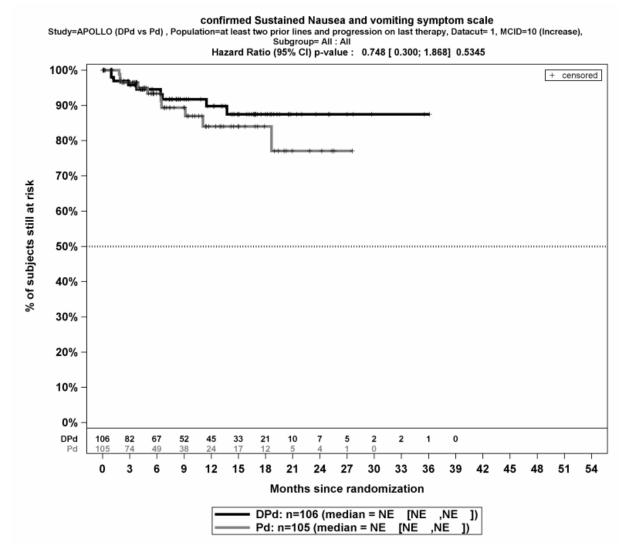


Figure 4: Kaplan-Meier curves on EORTC QLQ-C30, nausea and vomiting, time to definitive deterioration by ≥ 10 points, APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020)

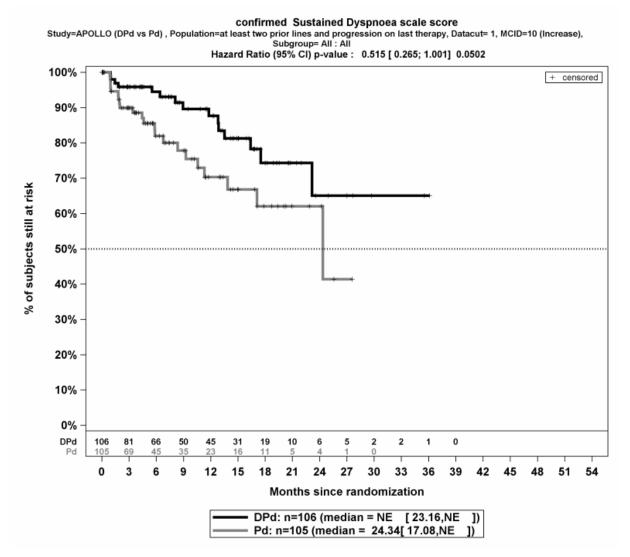


Figure 5: Kaplan-Meier curves on EORTC QLQ-C30, dyspnoea, time to definitive deterioration by ≥ 10 points, APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21 July 2020)

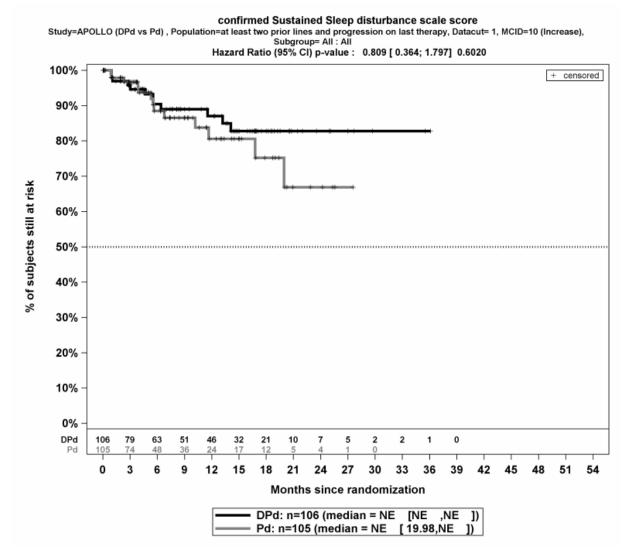


Figure 6: Kaplan-Meier curves on EORTC QLQ-C30, insomnia, time to definitive deterioration by ≥ 10 points, APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020)

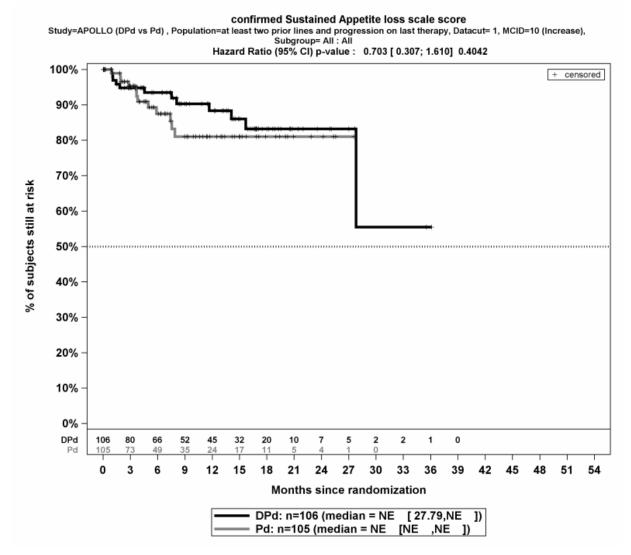


Figure 7: Kaplan-Meier curves on EORTC QLQ-C30, appetite loss, time to definitive deterioration by ≥ 10 points, APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020)

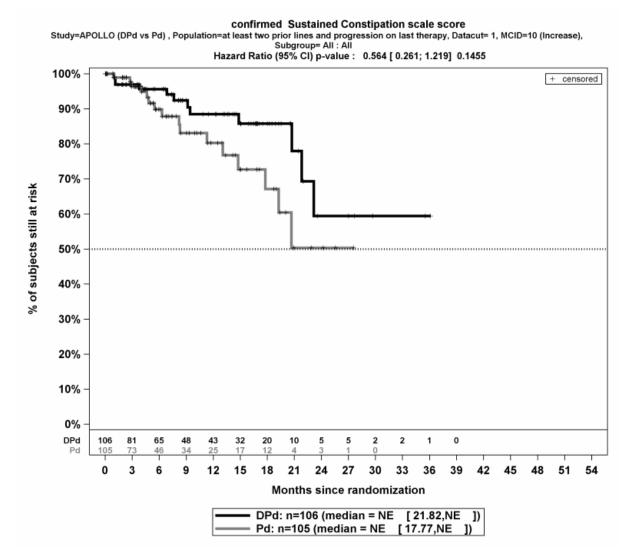


Figure 8: Kaplan-Meier curves on EORTC QLQ-C30, constipation, time to definitive deterioration by ≥ 10 points, APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020)

Addendum A21-170

Daratumumab - Addendum to Commission A21-101

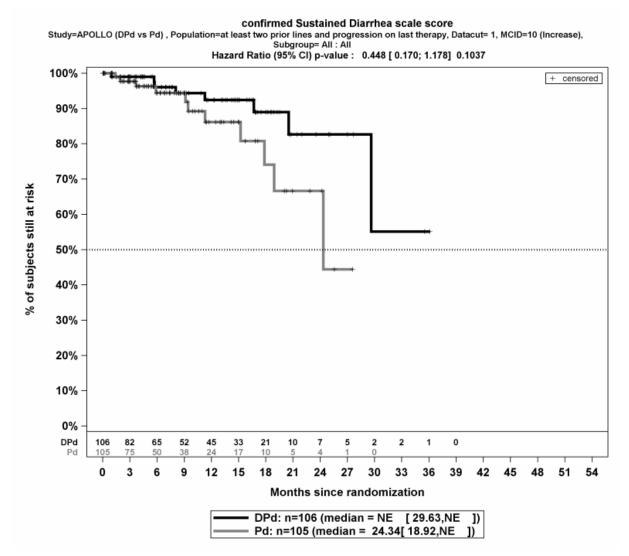


Figure 9: Kaplan-Meier curves on EORTC QLQ-C30, diarrhoea, time to definitive deterioration by ≥ 10 points, APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020)

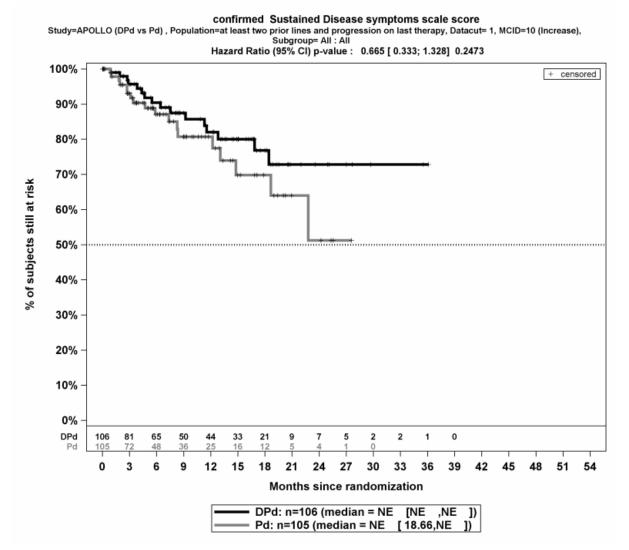


Figure 10: Kaplan-Meier curves on EORTC QLQ-MY20, disease symptoms, time to definitive deterioration by \geq 10 points, APOLLO study, subpopulation of patients with \geq 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020)

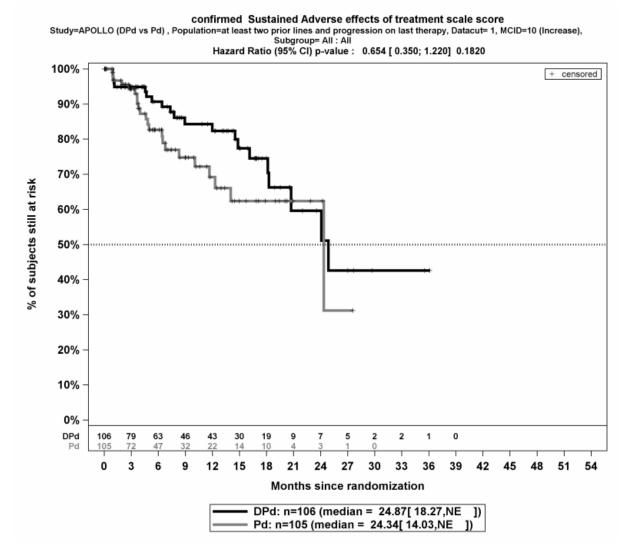


Figure 11: Kaplan-Meier curves on EORTC QLQ-MY20, side effects of therapy, time to definitive deterioration by ≥ 10 points, APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020)

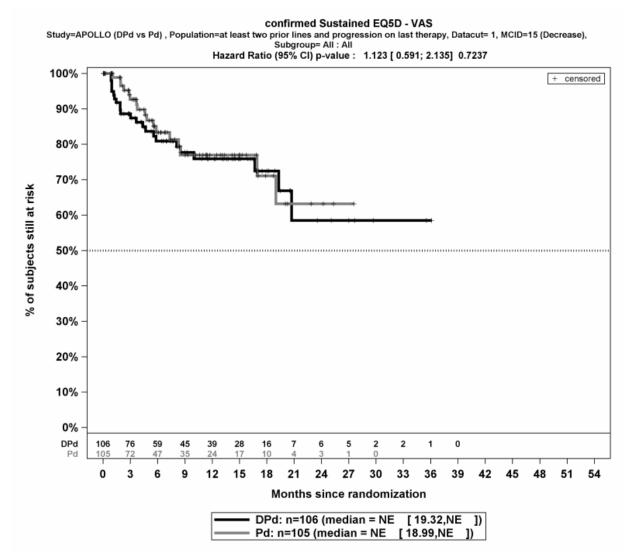


Figure 12: Kaplan-Meier curves on EQ-5D VAS, time to definitive deterioration by \geq 15 points, APOLLO study, subpopulation of patients with \geq 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020)

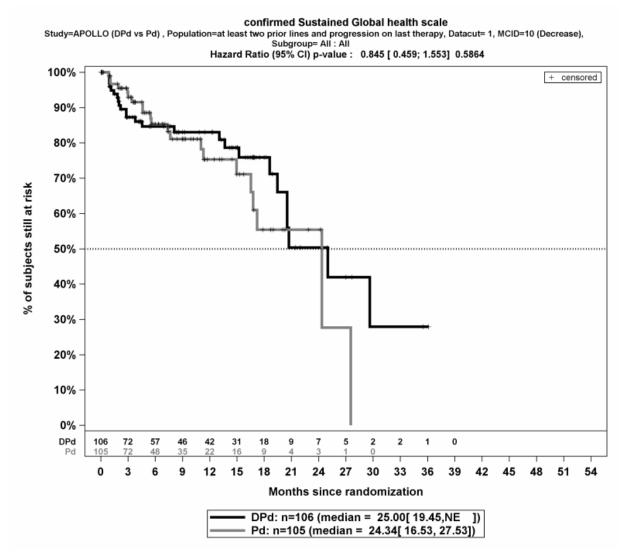


Figure 13: Kaplan-Meier curves on EORTC QLQ-C30, global health status, time to definitive deterioration by ≥ 10 points, APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020)

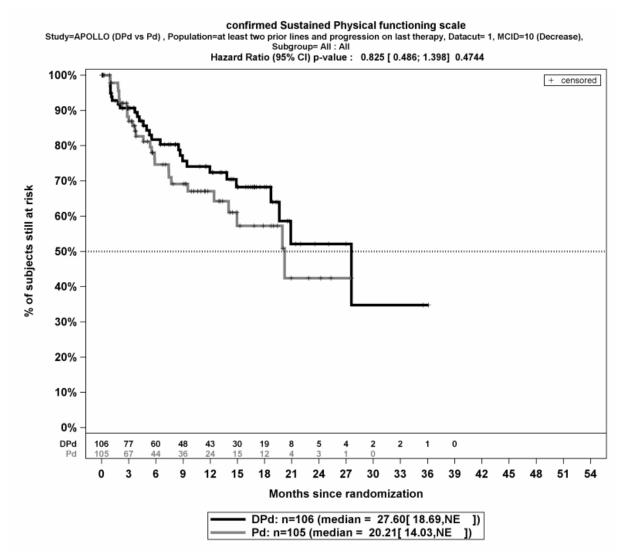


Figure 14: Kaplan-Meier curves on EORTC QLQ-C30, physical functioning, time to definitive deterioration by ≥ 10 points, APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020)

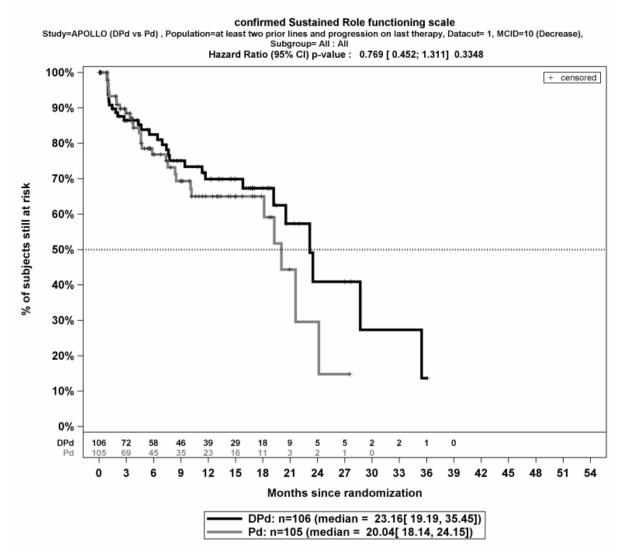


Figure 15: Kaplan-Meier curves on EORTC QLQ-C30, role functioning, time to definitive deterioration by ≥ 10 points, APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020)

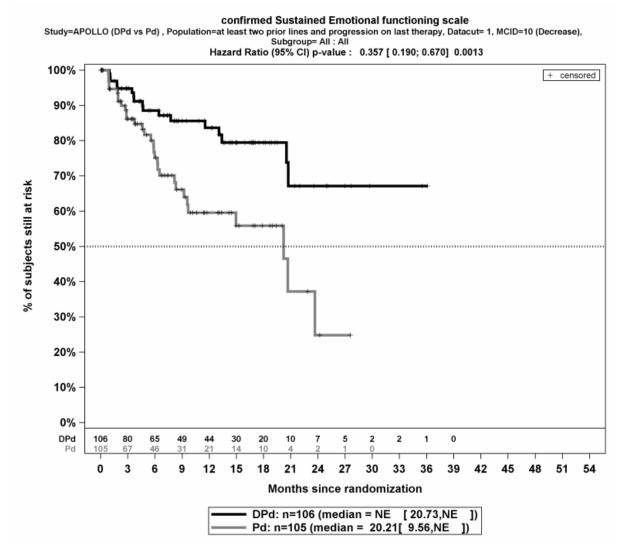


Figure 16: Kaplan-Meier curves on EORTC QLQ-C30, emotional functioning, time to definitive deterioration by ≥ 10 points, APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020)

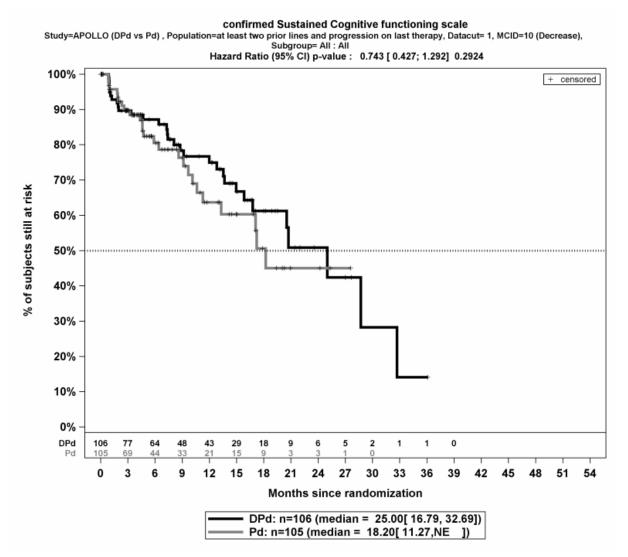


Figure 17: Kaplan-Meier curves on EORTC QLQ-C30, cognitive functioning, time to definitive deterioration by ≥ 10 points, APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020)

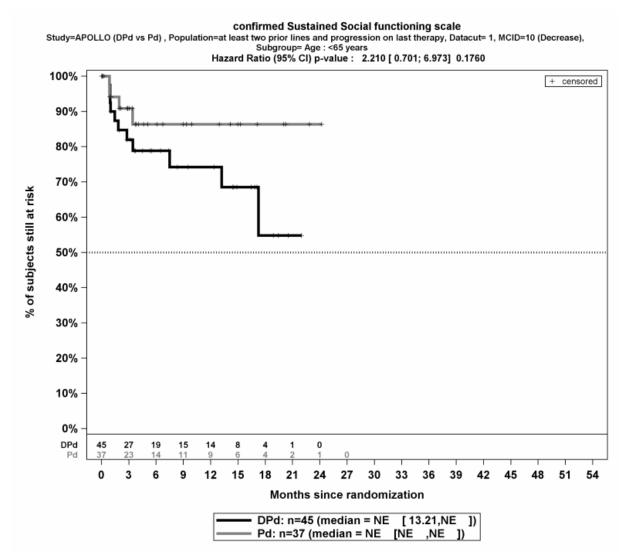


Figure 18: Kaplan-Meier curves on EORTC QLQ-C30, social functioning, time to definitive deterioration by \geq 10 points, subgroup analysis by age (< 65 years), APOLLO study, subpopulation of patients with \geq 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020)

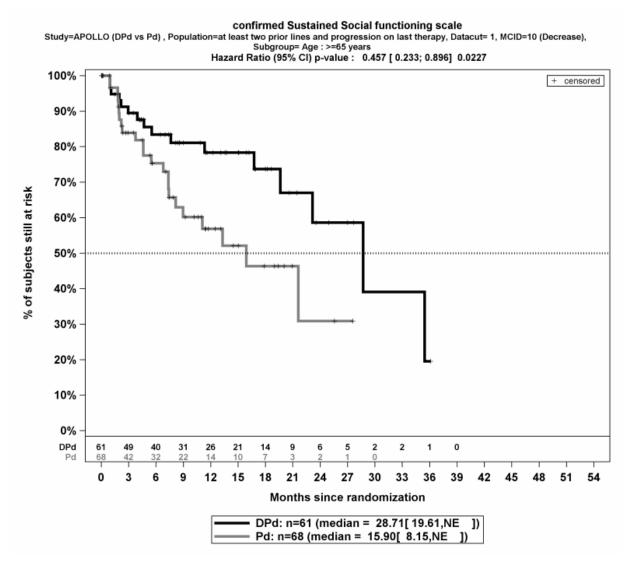


Figure 19: Kaplan-Meier curves on EORTC QLQ-C30, social functioning, time to definitive deterioration by \geq 10 points, subgroup analysis by age (\geq 65 years), APOLLO study, subpopulation of patients with \geq 2prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020)

Addendum A21-170

Daratumumab - Addendum to Commission A21-101

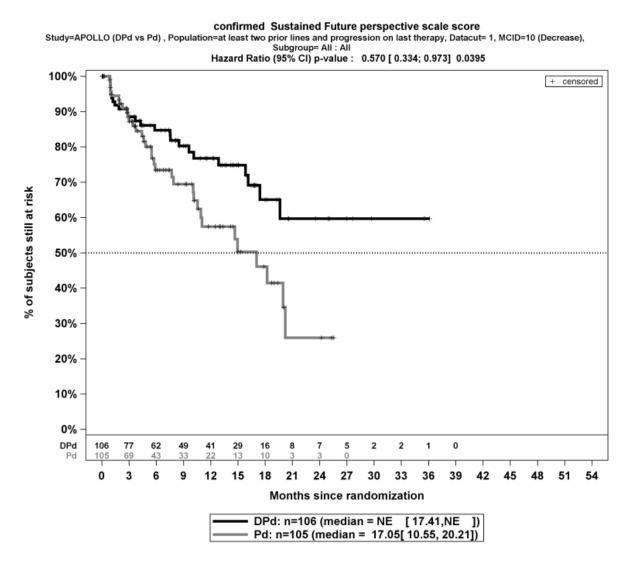


Figure 20: Kaplan-Meier curves on EORTC QLQ-MY20, future perspective, time to definitive deterioration by ≥ 10 points, APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020)

Addendum A21-170

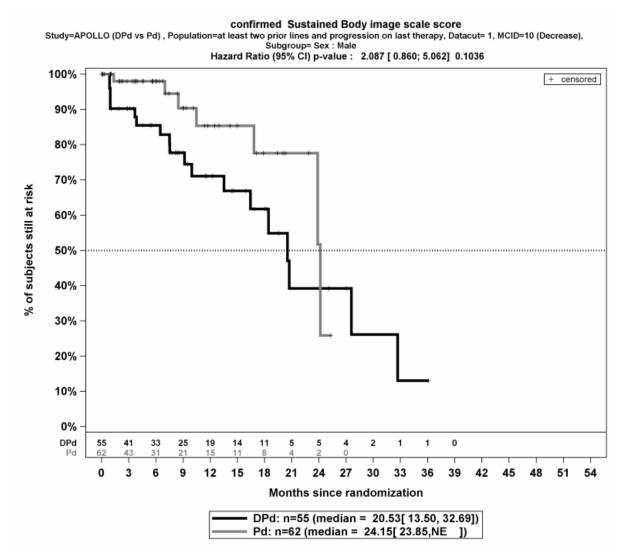


Figure 21: Kaplan-Meier curves on QLQ-MY20, body image, time to definitive deterioration by ≥ 10 points, subgroup analysis by sex (male), APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020)

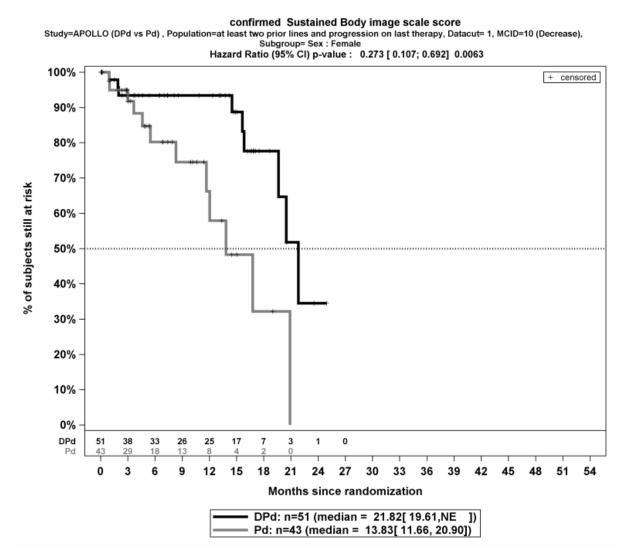


Figure 22: Kaplan-Meier curves on QLQ-MY20, body image, time to definitive deterioration by ≥ 10 points, subgroup analysis by sex (female), APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 21/07/2020)

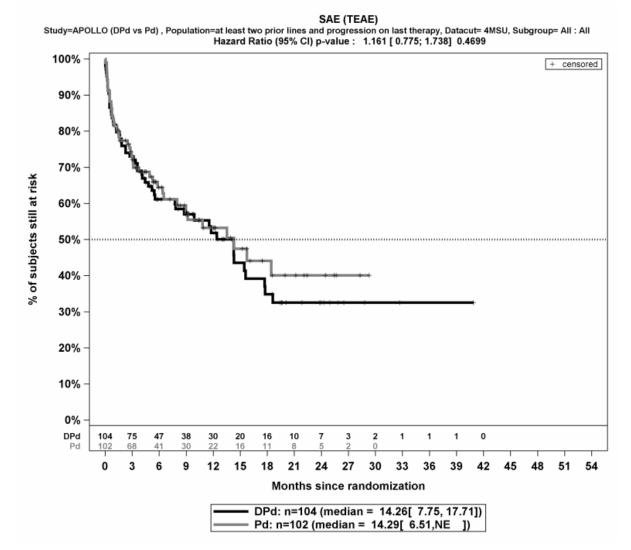


Figure 23: Kaplan-Meier curves on SAEs, APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 15/11/2020)

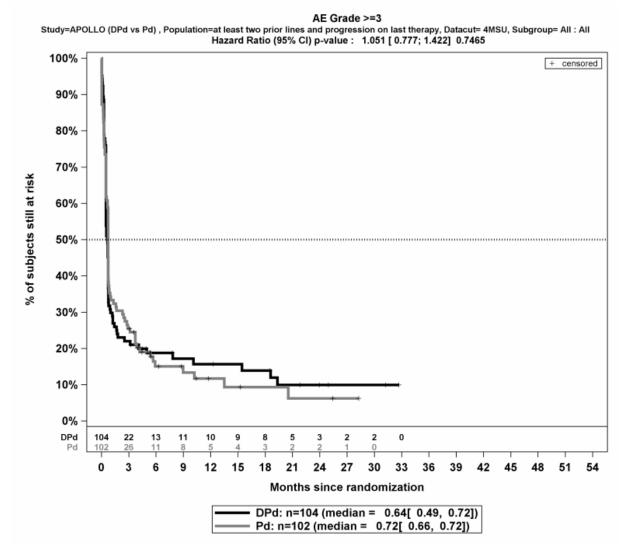


Figure 24: Kaplan-Meier curves on severe AEs (CTCAE grade \geq 3), APOLLO study, subpopulation of patients with \geq 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 15/11/2020)

Addendum A21-170

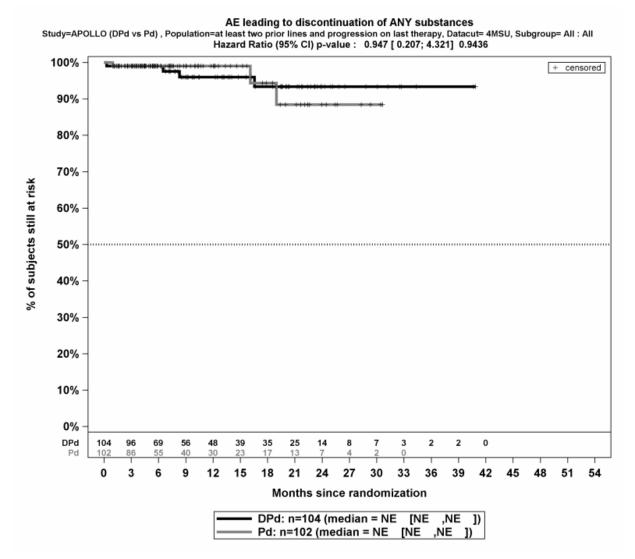


Figure 25: Kaplan-Meier curves on discontinuation due to AEs (≥ 1 drug component), APOLLO study, subpopulation of patients with ≥ 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 15/11/2020)

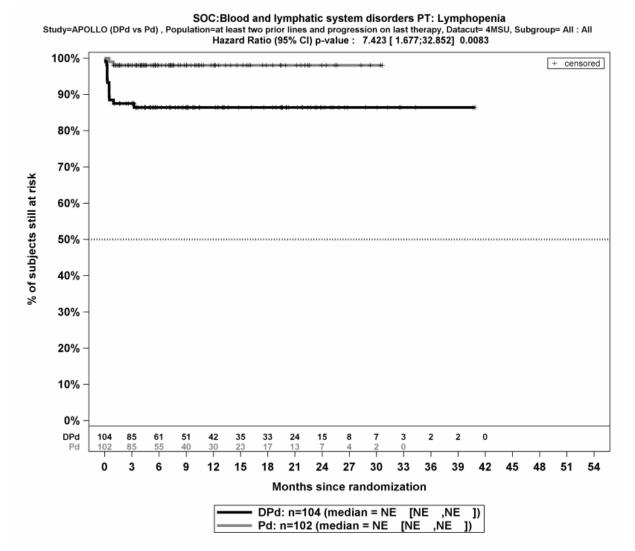


Figure 26: Kaplan-Meier curves on lymphopoenia (PT, severe AEs), APOLLO study, subpopulation of patients with \geq 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 15/11/2020)

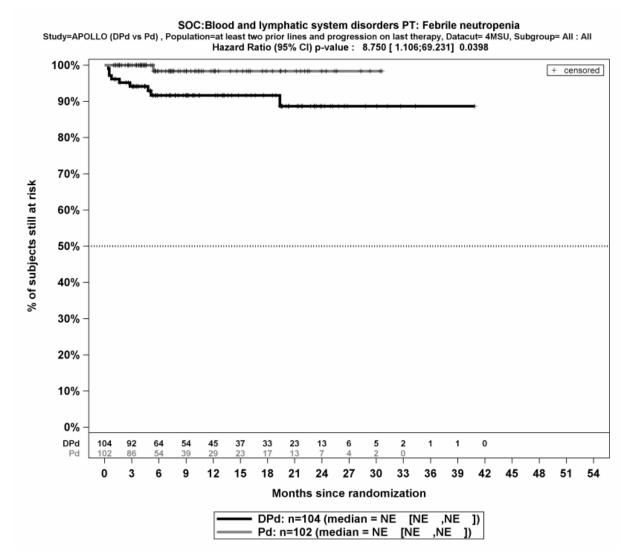


Figure 27: Kaplan-Meier curves on febrile neutropenia (PT, severe AEs), APOLLO study, subpopulation of patients with \geq 2 prior lines of therapy and disease progression on the most recent line of therapy (data cut-off: 15/11/2020)