ISATUXIMAB IN THE TREATMENT OF RELAPSED/REFRACTORY MULTIPLE MYELOMA:

A Review of Key Subgroup Analyses from the Phase 3 ICARIA-MM Study

Authors: Paul Richardson, Simon Harrison, Sara Bringhen, Fredrik Schjesvold, Kwee Yong, Frank Campana, Solenn Le-Guennec, Sandrine Macé, Meletios Dimopoulos Article URL: https://www.futuremedicine.com/doi/10.2217/FON-2021-0568 Trial registration: NCT02990338 © Paul G. Richardson ICARIA-MM study design and treatment **P3** Randomized 1:1 Phase 3 1:1 Inclusion criteria **Primary endpoint Isa-Pd** (n = 154) RRMM PFS (IRC) 1.1 PES · ≥2 prior lines with Len and PI Key secondary endpoints Open label 11.5 mo Isa-Pd vs 6.5 mo Pd Pd (n = 153)· No prior therapy with pomalidomide ORR, OS 307 patients ORR 60.0% Isa-Pd vs 35.0% Pd Stratification factors: Age (<75 vs ≥75) Prior lines of therapy (2-3 vs >3) Isa-Pd vs Pd Subgroup Analyses* Cytogenetic subgroups High-risk cytogenetics High-risk cytogenetics High-risk cytogenetics del (17p), t(4;14), or t(14;16) 7.5 mo Isa-Pd vs 3.7 mo Pd 50.0% Isa-Pd vs 16.7% Pd HR: 0.66 (95% CI: 0.33-1.28) High-risk abnormalities (n = 60) Standard-risk cytogenetics Standard-risk cytogenetics 15.6% Isa-Pd vs 23.5% Pd 11.6 mo Isa-Pd vs 7.4 mo Pd 65.0% Isa-Pd vs 42.3% Pd HR: 0.62 (95% CI: 0.42-0.93) Isolated gain(1q21) (n = 85) Isolated gain(1q21) Isolated gain(1q21) 53.6% Isa-Pd vs 27.6% Pd 36.4% Isa-Pd vs 19.0% Pd 11.2 mo Isa-Pd vs 4.6 mo Pd HR: 0.50 (95% CI: 0.28-0.88) Renal impairment subgroup **Elderly subgroup** Renal impairment PES ORR <60 ml/min/m² <65 years (n = 124) 35% Isa-Pd vs 46% Pd 11.5 mo Isa-Pd vs 5.0 mo Pd 59.3% Isa-Pd vs 34.3% Pd HR: 0.66 (95% CI: 0.40-1.07) Renal impairment (n = 104) 65-74 years (n = 122) 44% Isa-Pd vs 35% Pd 11.6 mo Isa-Pd vs 8.6 mo Pd 64.7% Isa-Pd vs 38.9% Pd 39% Isa-Pd vs 34% Pd HR: 0.64 (95% CI: 0.39-1.06) ≥75 years (n = 61) 21% Isa-Pd vs 19% Pd 11.4 mo Isa-Pd vs 4.5 mo Pd 53.1% Isa-Pd vs 31.0% Pd HR: 0.48 (95% CI: 0.24-0.95) No renal impairment PES 12.7 mo Isa-Pd vs 7.9 mo Pd Refractory/prior lines subgroups HR: 0.58 (95% CI: 0.38-0.88) Renal impairment PES ORR 9.5 mo Isa-Pd vs 3.7 mo Pd HR: 0.50 (95% CI: 0.30-0.85) 2-3 prior lines (n = 203) 66.2% Isa-Pd vs 66.0% Pd 12.3 mo Isa-Pd vs 7.8 mo Pd 56.9% Isa-Pd vs 38.6% Pd HR: 0.59 (95% CI: 0.40-0.88) No renal impairment >3 prior lines (n = 104) 33.8% Isa-Pd vs 34.0% Pd 9.4 mo Isa-Pd vs 4.3 mo Pd 67.3% Isa-Pd vs 28.8% Pd ORR HR: 0.59 (95% CI: 0.36-0.98) 67.8% Isa-Pd vs 42.7% Pd 55.9% Isa-Pd vs 29.5% Pd Len refractory at last line (n = 181) 60.4% Isa-Pd vs 57.5% Pd 11.6 mo Isa-Pd vs 5.7 mo Pd Renal impairment HR: 0.50 (95% CI: 0.34-0.76) 56.4% Isa-Pd vs 24.5% Pd Len+PI refractory (n = 218) 72.1% Isa-Pd vs 69.9% Pd 11.2 mo Isa-Pd vs 4.8 mo Pd 58.6% Isa-Pd vs 29.9% Pd HR: 0.58 (95% CI: 0.40-0.84) Complete renal response CRR 71.9% Isa-Pd vs 38.1% Pd Conclusion Durable complete renal response Overall, the addition of isatuximab to pomalidomide and dexamethasone improved PFS and disease response rates 31.1% Isa-Pd vs 19.0% Pd across different subgroups, regardless of prognostic factor

CRR, complete renal response; d, dexamethasone; IRC, independent review committee; Isa, isatuximab; Len, lenalidomide; mo, months; ORR, overall response rate; OS, overall survival; P, pomalidomide; PFS, progression-free survival; PI, proteasome inhibitor; R, randomized; RRMM, relapsed/refractory multiple myeloma

*Subgroup analyses have the limitation of relatively small number of patients, thus, they are not powered for statistical analysis. However, the efficacy and safety benefits of adding isatuximab to pomalidomide and dexamethasone in the different subgroups of patients with RRMM were consistent with the overall ICARIA-MM study population