**Supplementary Table S3. Crude and Adjusted Real-World Response Rates RWD External Controls Selected using Restriction Criteria Group 4 to Replicate Trial Control ORR\*.**

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| --- | --- | --- | --- | --- |
| **Categories** | **IMpower150-WT****n=61** | **IMpower130-WT****n=15** | **IMpower131****n=57** | **IMpower132****n=281** |
| **RCT ORR** **(95% CI)** | 48.8%(43.4%, 54.3%) | 41.2%(34.8%, 47.9%) | 51.2%(45.7%, 56.6%) | 37.4%(31.8%, 43.3%) |
| **Missing response** | 8 | 2 | 5 | 42 |
| **Responders** | 37 | 9 | 32 | 130 |
| **Unweighted rwRR (95% CI)** | 60.7%(47.3%, 72.9%) | 60.0%(32.3%, 83.7%) | 56.1%(42.4%, 69.3%) | 46.3%(40.3%, 52.3%) |
| **Weighted rwRR (95% CI)** | 51.6%(31.5%, 71.2%) | Not estimated | 55.2%(37.3%, 71.8%) | 44.8%(37.7%, 52.1%) |

CI, confidence interval; ORR, overall response rate; RCT, randomized clinical trial; RWD, real-world data; rwRR, real-world response rate; WT, wild type. \* Patients with missing or indeterminate response outcomes were included in the denominator.