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# Efficacy and Safety of Bleselumab in Kidney Transplant Recipients: A Phase 2, Randomized, Open-Label Study

*R. Harland,<sup>1</sup> G. Klintmalm,<sup>2</sup> S. Jensik,<sup>3</sup> H. Yang,<sup>4</sup> J. Bromberg,<sup>5</sup> J. Holman,<sup>6</sup> M. Anil Kumar,<sup>6</sup> V. Santos,<sup>6</sup> T. Larson,<sup>6</sup> X. Wang.<sup>6</sup>*

<sup>1</sup>University of Arizona, Tucson

<sup>2</sup>Annette C. and Harold C. Simmons Transplant Institute, Dallas

<sup>3</sup>Rush University, Chicago

<sup>4</sup>PinnacleHealth Transplant Associates, Harrisburg

<sup>5</sup>University of Maryland, Baltimore

<sup>6</sup>Astellas Pharma Global Development, Inc., Northbrook.

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## Session Information

**Date:** Tuesday, June 5, 2018

**Session Time:** 4:30pm-6:00pm

**Session Name:** Concurrent Session:  
**Kidney Immunosuppression: General Considerations - 2**

**L Presentation Time:** 4:54pm-5:06pm

**Location:** Room 6A

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of an Open Label,  
Randomized Phase 2  
Clinical Trial

**Introduction:** Bleselumab (ASKP1240) is an anti-CD40 monoclonal antibody currently in development. This phase 2, randomized, open-label study assessed the efficacy and safety of bleselumab in *de novo* kidney transplant recipients over 36 months post-transplant (NCT01780844).

**Methods:** Transplant recipients were randomized (1:1:1) to:

[middot] Standard of care (SoC) with immediate-release tacrolimus (IR-T; 0.1 mg/kg/day; target  $C_{\text{trough}}$  4–11 ng/mL) + mycophenolate mofetil (MMF; 1 g twice daily)

[middot] Bleselumab (200 mg on Days 0/7/14/28/42/56/70/90, and monthly thereafter) + IR-T (0.1 mg/kg/day; target  $C_{\text{trough}}$  4–11 ng/mL days 0–30, then 2–5 ng/mL)

[middot] Bleselumab (dosing regimen as per bleselumab + IR-T group) + MMF

All received basiliximab induction (20 mg injection pre-transplant and on Day 3–5 post-transplant) and corticosteroids. The primary endpoint was incidence of biopsy-proven acute rejection (BPAR; Banff grade  $\geq 1$ ) through month 6. Treatment-emergent adverse events (TEAEs) were assessed to 6 months post-transplant; serious TEAEs were recorded for 36 months.

**Results:** 149 patients were randomized: 138 received  $\geq 1$  dose of study drug (SoC [n=48]; bleselumab + IR-T [n=44]; bleselumab + MMF [n=46]). Bleselumab + IR-T treatment demonstrated noninferiority with SoC: at 6 months post-transplant, BPAR incidence was 3 (6%) for SoC, 4 (9%;  $P=0.706$  vs SoC) for bleselumab + IR-T, and 17 (37%;  $P<0.001$  vs SoC) for bleselumab + MMF; at 36 months, BPAR incidence was 6 (13%), 5 (11%;  $P=1.000$ ), and 19 (41%;  $P=0.002$ ), respectively. 138 transplant recipients experienced a TEAE during the 6-month treatment period. The bleselumab + MMF group had a higher incidence of serious TEAEs and TEAEs leading to treatment discontinuation compared with the bleselumab + IR-T group. Both groups had greater incidences of drug-related TEAEs and TEAEs leading to treatment discontinuation compared with SoC. There were 4 deaths (2 per bleselumab group) during this study, none deemed related to bleselumab.

**Conclusions:** Treatment with bleselumab + IR-T over 36 months demonstrated similar efficacy in the prevention of BPAR compared with SoC. No new safety signals were observed.

**CITATION INFORMATION:** Harland R., Klintmalm G., Jensik S., Yang H., Bromberg J., Holman J., Anil Kumar M., Santos V., Larson T., Wang X. Efficacy and Safety of Bleselumab in Kidney Transplant Recipients: A Phase 2, Randomized, Open-Label Study *Am J Transplant*. 2017;17 (suppl 3).

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