



NEWS RELEASE

LivaNova Demonstrates 84.5% Cumulative Response Rate with PolySync Programming in OSPREY Study for Obstructive Sleep Apnea

- *Presentation at SLEEP 2026 illustrates ability to convert non-responders into responders using personalized programming*

LONDON, JUNE 16, 2026 – LivaNova PLC (Nasdaq: LIVN), a market-leading medical technology company, today announced new data showing that use of its PolySync™ programming algorithm increased the cumulative apnea-hypopnea index (AHI) response rate to 84.5% in patients with moderate to severe Obstructive Sleep Apnea (OSA) when treated with proximal hypoglossal nerve stimulation (pHGNS). The findings were presented at SLEEP 2026, the 40th annual meeting of the Associated Professional Sleep Societies (APSS), by lead author Alan R. Schwartz, M.D., adjunct professor of otorhinolaryngology in the Perelman School of Medicine at the University of Pennsylvania and research professor of otolaryngology for Vanderbilt Health.

The results build on LivaNova’s previously reported outcomes from the OSPREY randomized controlled trial (RCT), which [reported a 65% responder rate](#) in the treatment arm after 12 months of pHGNS therapy delivered by the Company’s aura6000™ System. In the PolySync substudy, patients who did not meet responder criteria after one year of individual-contact stimulation in OSPREY underwent reprogramming using simultaneous-contact stimulation. This approach converted the majority of these patients into responders, significantly improving both AHI and oxygen desaturation index (ODI) outcomes and increasing the cumulative response rate to 84.5%. LivaNova previously announced that PolySync will be available with its commercial pHGNS product, enabling the integration of advanced, patient-specific titration at the onset of therapy.

“These results underscore the strength of our underlying therapy and the opportunity to further enhance outcomes through innovation,” said Ahmet Tezel, Ph.D., Chief Innovation Officer of LivaNova. “OSPREY demonstrated rapid and durable clinical benefit, and PolySync shows that we can meaningfully build on that foundation by improving response rates and expanding the impact of pHGNS therapy. This reflects our ongoing commitment to advancing personalized neuromodulation for patients with Obstructive Sleep Apnea.”

The PolySync findings extend the strong clinical foundation established by [LivaNova's OSPREY and THN3 RCTs](#), the first RCTs in hypoglossal nerve stimulation (HGNS). [As previously reported](#), OSPREY met its primary safety and efficacy endpoints at six months, demonstrating significant reductions in AHI and ODI, with continued improvements through 12 months of therapy. The full dataset, [published in *Annals of Internal Medicine*](#), confirmed clinically meaningful and sustained improvements across both objective measures and patient-reported outcomes, including daytime sleepiness and functional quality of life.

PolySync builds on LivaNova's differentiated pHGNS platform, which utilizes a six-contact electrode positioned on the proximal hypoglossal nerve, prior to any nerve branching, to enable broader access to airway muscles and flexible therapy optimization. By enabling simultaneous-contact stimulation, PolySync expands the variety and number of possible stimulation fields, allowing for broader and more flexible activation of lingual muscles and improved treatment responsiveness across a heterogeneous patient population.

"These data are particularly meaningful because they demonstrate that this novel stimulation paradigm can further improve outcomes beyond that achieved with the initial response to therapy," Schwartz said. "The ability to convert non-responders into responders through optimized programming represents an important advancement in treating Obstructive Sleep Apnea."

PolySync programming was well tolerated, with no serious treatment-emergent adverse events and no stimulation- or device-related adverse events reported in the substudy.

"The progression from strong 12-month response rates to even higher cumulative outcomes highlights the clinical potential of this platform and its ability to address a broader patient population," said Lucile Blaise, Global Head of Commercialization, OSA, at LivaNova.

In addition to the PolySync substudy, LivaNova presented a second scientific poster Tuesday at SLEEP 2026 relating to PolySync. Rex Chin-Hao Chen, Ph.D., a LivaNova research scientist, presented computational modeling supporting the dosing rationale for the simultaneous-contact stimulation used in PolySync.

On Wednesday at 10 a.m. EDT, Atul Malhotra, M.D., lead investigator for the OSPREY study, professor of medicine at University of California San Diego School of Medicine, and sleep medicine specialist at UC San Diego Health, will present a poster at SLEEP 2026 examining the integration of GLP-1 receptor agonists into treatment protocols for OSA.

The poster presentations by Schwartz and Chen can be viewed [here](#). Malhotra's poster will be available at the same site upon conclusion of his presentation on June 17.

Together, these data and presentations highlight LivaNova's continued investment in advancing neuromodulation science and expanding treatment options for the large and growing population of patients with OSA.

pHGNS is an FDA-approved therapy designed to improve airway patency during sleep by stimulating tongue muscles to prevent upper airway collapse. LivaNova's multi-contact architecture enables a broad range of programmable configurations, supporting more precise, individualized therapy. The addition of PolySync programming demonstrates how advanced algorithms can further enhance outcomes and extend the benefits of therapy to more patients.

Building upon the [FDA premarket approval received in March](#) for aura6000, LivaNova is continuing to prepare its next-generation OSA device for a PMA supplement application to the FDA in the second half of 2026. This device is being designed for compatibility with magnetic resonance imaging (MRI), remote and secure configuration management capabilities, and long-lasting, rechargeable battery technology (up to 15 years).

Please visit our new [OSA website](#) to learn more.

About LivaNova

LivaNova PLC is a global medical technology company built on nearly five decades of experience and a vision to change the trajectory of lives for a new day. Through ingenious medical solutions in select neurological and cardiac conditions, LivaNova strives to ignite patient turnarounds. Headquartered in London, with approximately 3,300 employees and a presence in more than 100 countries, LivaNova serves patients, healthcare professionals, and healthcare systems worldwide. For more information, please visit www.livanova.com.

Safe Harbor Statement

This news release contains "forward-looking statements" concerning the Company's goals, beliefs, expectations, strategies, objectives, plans, underlying assumptions, and other statements that are not necessarily based on historical facts. These statements include, but are not limited to, statements regarding data presented at scientific meetings, the interpretation and potential clinical impact of such data, the performance and capabilities of the aura6000, and anticipated regulatory submissions, approvals, and commercialization of the Company's next-generation OSA device. Actual events may differ materially from those indicated in our forward-looking statements as a result of various factors, including those factors set forth in Item 1A of the Company's most recent Annual Report on Form 10-K, as supplemented by any risk factors contained in Quarterly Reports on Form 10-Q and Current

Reports on Form 8-K. LivaNova undertakes no obligation to update the information contained in this press release to reflect subsequently occurring events or circumstances.

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