REACT HEALTH

React Health's new G3 X APAP:
Trust Built on Performance

In a 2025 bench study, six leading APAP devices were evaluated under identical test conditions to assess event detection, treatment efficacy, and data accuracy.

React Health's Foam-Free G3 X APAP demonstrated exceptional consistency, accurate event detection, and robust leak compensation. These findings validate the G3 X as a trusted, high-performance solution for clinicians and patients seeking adaptable, comfortable therapy.

Key Findings: G3 X Performance Highlights

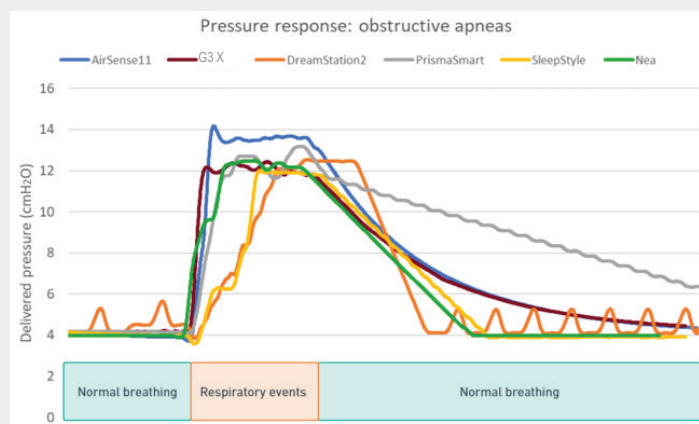### 1. High Treatment Efficacy with Lower Pressure Burden

- Corrected obstructive apneas and hypopneas, matching the highest performance level.

- Delivered results comparable to or better than market leaders while maintaining lower peak pressures, improving patient comfort.

- G3 X accurately identified true events without false positives, unlike devices that misclassified normal breathing.

2. Industry-Leading Accuracy in Event Detection

- Identified 100% of central apneas, hypopneas, and Cheyne-Stokes respiration (CSR) accurately.

- Avoided inappropriate pressure increases during central events—critical for preventing treatment-emergent CSA.

- Reported data showed 100% agreement with objective hypopnea detection benchmarks.

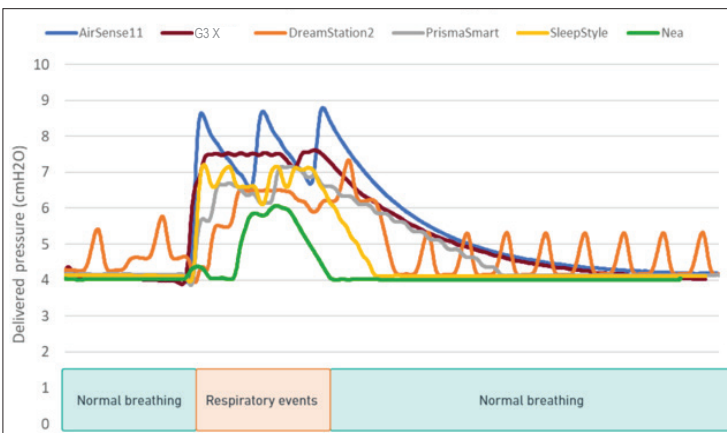### 3. Accurate AHI Reporting & Leak Compensation

- Maintained 100% agreement between estimated and real AHI values, ensuring clinician confidence in reported data.

- Demonstrated exceptional leak compensation, preserving therapy effectiveness under suboptimal conditions.

Pressure response: obstructive apneas

Pressure Response: Obstructive Apneas

The chart illustrates how each device adjusts pressure in response to obstructive apneas.

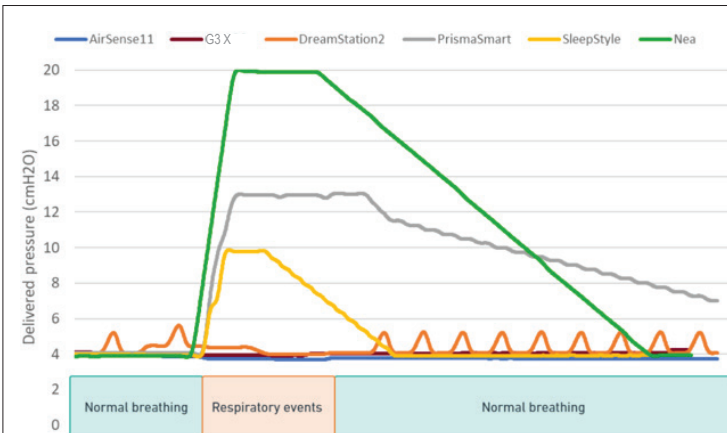*The G3 X stands out by delivering a prompt but measured response—balancing effective event correction with patient comfort.*

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Pressure Response: Obstructive Hypopneas

This chart shows how devices respond to obstructive hypopneas. The G3 X detected and corrected all events with timely, stable pressure for consistent therapy.
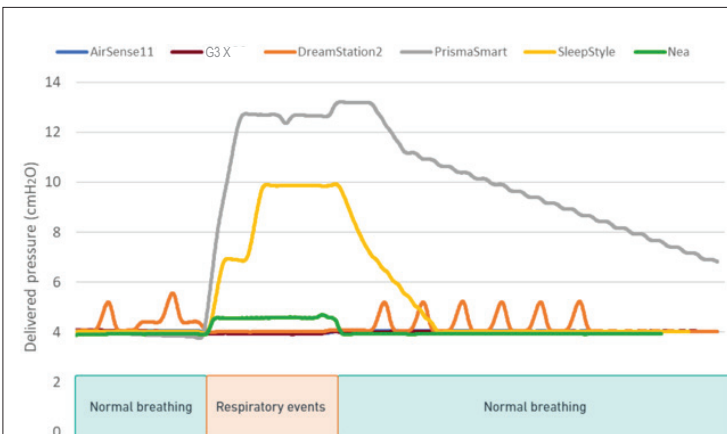
- The G3 X corrected more apneas with a quicker pressure rise, achieving effective therapy while minimizing pressure overshoot.

- Unlike slower-responding devices, the G3 X also reduced pressure back to baseline smoothly, supporting patient comfort post-event.

Chart legend: AirSense11, G3 X, DreamStation2, PrismaSmart, SleepStyle, Nea
Y-axis: Delivered pressure (cmH2O) 0–10
X-axis regions: Normal breathing, Respiratory events, Normal breathing

Central Apnea Response

This chart shows how well devices avoid unnecessary pressure during central apneas.

- G3 X accurately identified all events and maintained appropriate pressure, demonstrating superior discrimination.

Chart legend: AirSense11, G3 X, DreamStation2, PrismaSmart, SleepStyle, Nea
Y-axis: Delivered pressure (cmH2O) 0–20
X-axis regions: Normal breathing, Respiratory events, Normal breathing

Cheyne-Stokes Respiration

This chart examines device behavior during CSR patterns. The G3 X recognized periodic breathing without pressure escalation, aligning with best practices for central breathing disorders.

- G3 X correctly identified CSR and maintained low pressure, avoiding unnecessary intervention.

- Competing devices misclassified CSR as obstructive and raised pressures up to 13 cmH_2O, which may worsen patient tolerance.

Chart legend: AirSense11, G3 X, DreamStation2, PrismaSmart, SleepStyle, Nea
Y-axis: Delivered pressure (cmH2O) 0–14
X-axis regions: Normal breathing, Respiratory events, Normal breathing

Conclusion: Confidence in Every Breath.

The React Health G3 X delivers accuracy, dependable therapy, and exceptional data integrity. With proven performance in head-to-head comparisons, the G3 X stands out as a reliable APAP choice that prioritizes both efficacy and patient comfort.

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Source: Data on file. Bench testing performed by KerNel Biomedical, Rouen, France (2025). Evaluation compared auto-adjusting PAP devices and assessed their responsiveness to simulated sleep events on a test bench.