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Orthospine Advance Health, Inc. Launches Innovative PowerFlow Syringe Assist to Revolutionize Drug Delivery

Merced, CA — [April 23, 2025] — *Orthospine Advance Health, Inc.* proudly announces the launch of its groundbreaking medical device: the **PowerFlow Syringe Assist**, the first syringe-assist solution engineered to support a wide range of syringe sizes for daily clinical and veterinary use. This FDA-registered and listed Class I medical device is the result of extensive clinical trials and years of user-centric innovation.

The **PowerFlow Syringe Assist** significantly reduces the physical force required for syringe operation by over 95%, easing the physical burden on healthcare and veterinary professionals who perform repetitive injections. Designed for versatility, the system accommodates standard syringe sizes—including 10 mL, 20 mL, 30 mL, and 50 mL—making it ideal for pain management, intraarticular injections, anesthesia induction, and more.

“As a spine surgeon of over 10 years, I believe this technology will reach worldwide use for multiple applications, including spine pain management, veterinary drug delivery, intraarticular joint drug delivery, and intravenous medication. This device ensures fast, precise drug delivery without burdening the user,” said **Dr. Gabriel Garcia-Diaz, MD**, orthopedic spine surgeon and co-inventor of the PowerFlow Syringe Assist.

Solving an Overlooked Clinical Challenge

Traditional syringe use often leads to repetitive strain injuries due to the continuous use of the index finger and thumb. Conditions such as trigger finger and thumb CMC arthrosis are increasingly common among healthcare workers. The PowerFlow Syringe Assist directly addresses these challenges by providing a more ergonomic, efficient solution for both sterile and non-sterile environments.

Key Features and Benefits

- **Ergonomic Grip Design:** The plunger grip ensures precise control and comfort during extended use.
- **Force Reduction:** Requires over 95% less force than standard manual operation, reducing clinician fatigue and injury risk.
- **Broad Syringe Compatibility:** Compatible with 10 mL to 50 mL syringes for wide-ranging clinical and veterinary applications.
- **Patient-Specific Precision:** The mechanical system delivers highly accurate, pressure-sensitive medication administration tailored to patient needs.

This pioneering device supports a wide spectrum of procedures—ranging from interventional pain management to intraoperative drug delivery—unlocking new possibilities in daily clinical workflows.

Innovation Born from Collaboration

The PAS Syringe Assist System is a product of collaboration between Orthospine Advance Health, Inc. and the **CAPSTONE UG12 Engineering Team from UC Merced**. This partnership is fostering biomedical innovation while contributing to economic growth in California's Central Valley.

About Orthospine Advance Health, Inc.

Orthospine Advance Health, Inc. is committed to developing practical, innovative solutions that address the evolving needs of clinicians and patients. The company's mission is to improve medical outcomes through user-friendly technology that empowers providers and enhances patient care. The PowerFlow Syringe Assist exemplifies this vision—combining mechanical innovation with ergonomic insight to create a device that redefines everyday injection procedures.

To learn more about the PowerFlow Syringe Assist or to request a demonstration, please contact:

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