

Effi-Q

Suction-Stabilized Injection Adapter

Ending Childhood Needle Trauma Through Innovation



THE PROBLEM

Subcutaneous injection technology has remained fundamentally unchanged for over 100 years. Current practice requires clinicians to 'pinch and jab' with no mechanical support, creating:

For Patients: <ul style="list-style-type: none">• Visual trauma (seeing needle approach)• Unpredictable depth/pain• Physical restraint trauma• Lifelong needle phobia (63% of children)	For Clinicians: <ul style="list-style-type: none">• No depth regulation• Poor site stabilization• Blood/drug exposure risk• Technique-dependent outcomes
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THE EFFI-Q SOLUTION

Patented suction-stabilized technology that addresses mechanical deficit of traditional subcutaneous injection:

Precision Depth Control	Fixed 3mm (3/32") penetration depth prevents over-insertion and ensures optimal subcutaneous delivery. Eliminates risk of accidental intramuscular injection.
Suction Stabilization	Gentle squeeze bulb creates suction that draws skin to meet micro-needle. Provides secure purchase even with moving children. Eliminates need for physical restraint.
Visual Concealment	Needle remains hidden throughout procedure. Suction cup and inner-skirt design virtually conceal 3mm micro-tip. Eliminates anticipatory fear from seeing needle approach.
Clinician Safety	Built-in protection against needle-stick injuries and blood splatter. Enhanced stability for patients with manual dexterity or hand tremor challenges.

HOW IT WORKS

STEP 1	Place suction cup on injection site and depress bulb. Gentle suction draws skin up to meet concealed micro-needle.
STEP 2	Depress syringe plunger to deliver medication. Fixed 3mm depth ensures optimal subcutaneous delivery.
STEP 3	Squeeze bulb again to release suction. Device detaches gently for safe, easy disposal.

<p>PRIMARY APPLICATIONS</p> <ul style="list-style-type: none"> • Pediatric immunizations • Outpatient therapy injections • Mass vaccination settings • Home injection programs <p>EXPANSION POTENTIAL</p> <ul style="list-style-type: none"> • Geriatric patients • Adult home injection (diabetes, biologics) • Anticoagulation therapy 	<p>DEVELOPMENT STATUS</p> <ul style="list-style-type: none"> ✓ Patented technology ✓ Beta-stage prototype ✓ Design validation complete ✓ Developed with Starfish Medical ✓ Clear regulatory pathway <p>MARKET SIZE</p> <p>\$1.8B+</p> <p><i>Primary pediatric segment</i></p>	<p>KEY DIFFERENTIATORS</p> <ul style="list-style-type: none"> • Only device with suction-stabilization mechanism • Fixed depth + concealment + stabilization • Simple, cost-effective design (<\$1 per unit target) • Single-use disposable adapter • Compatible with standard syringes • No power source required
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SEEKING STRATEGIC PARTNERSHIP FOR CLINICAL DEVELOPMENT & COMMERCIALIZATION

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Effi-Q is an investigational device. All claims subject to clinical validation. Patent-protected technology.