

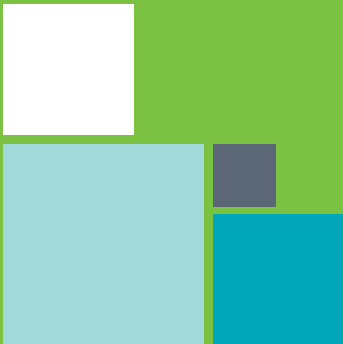
Aidaptus[®]

2-step single-use auto-injector platform

Versatile design **intuitive delivery**



A global leader in auto-injectors, we bring you our next generation product



OWEN MUMFORD

Pharmaceutical Services

Aidaptus® overview

Aidaptus® combines innovative patient-centric design and novel technologies delivering a device with clear features and benefits.

Small, discreet, lightweight design, enables user to incorporate into daily routine.

Audible feedback via a 'click' at the start and end of injection.

Visual feedback via a **bright yellow** plunger rod visible through a large window.

Ergonomic cap for **ease of use with multiple RNSs**.



Anti-roll feature, **helps convenience.**



Patented technology gives **true platform benefits** in robustness and also reduced time to market, cost and risk.



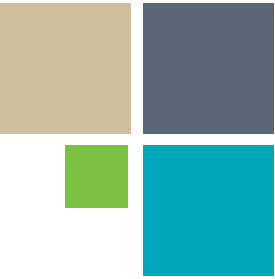
Independent 2 phase needle insertion and drug delivery, **limiting impact forces on the syringe, which reduces risk of syringe breakages.**



Automatic needle insertion and drug delivery which enables consistency of injection experience.



Automatic needle shielding before, during and after use, **helps with needle phobia.**



Introducing Aidaptus® versatility

Aidaptus® is a 2-step single use auto-injector platform, with a versatile design and intuitive drug delivery.

Aidaptus® accommodates both 1mL and 2.25mL glass syringes in the same device, and readily adapts to different fill volumes with no changed parts.

Aidaptus® is suitable for reducing risk during drug development and lifecycle management, if the drug formulation has to change - this device doesn't.

Aidaptus® Specifications

Needle safety	Automatic needle shielding with needle hidden before, during & after use	Needle insertion	Automatic
Primary container/ syringe type	1mL small round and cut/cropped flange (ISO standard) <ul style="list-style-type: none">BD Hypak, BD Neopak, Gerresheimer, Nipro, Ompi 2.25 mL small round flange (ISO standard) <ul style="list-style-type: none">BD Hypak, BD Neopak, Ompi.	Start and end of dose notification	End of dose click (>70Db at 1m)
Fill Volume	<ul style="list-style-type: none">1mL: 0.3 - 1.0mL *2.25mL: 0.5 - 2.0mL*Adapts to a range of different drug fill volumes with no changed parts, with a self-adjusting plunger. <small>*includes air bubble and overfill</small>	Weight	28g (without syringe)
Needle type and gauge	27G STW, 29G TW	Dimensions	H =162mm (cap on) W=18mm
Needle insertion depth (subcutaneous)	1mL = 6.5mm 2.25 mL = 6.3mm Syringe dependent	Component count	1mL = 11 plastic components, 3 springs, 2 metal pressings 2.25mL = 10 plastic components, 3 springs, 2 metal pressings
Injection angle	90°		

Aidaptus®: Intuitive delivery. Patient benefits

Ease of use

- Small discreet lightweight design
- Tamper evident cap design
- Ergonomic cap for ease of RNS removal
- Simple 2-step intuitive usage: remove cap, position and depress to inject
- Automatic needle insertion and drug delivery
 - Enables consistency of injection experience

Patient confidence and reassurance

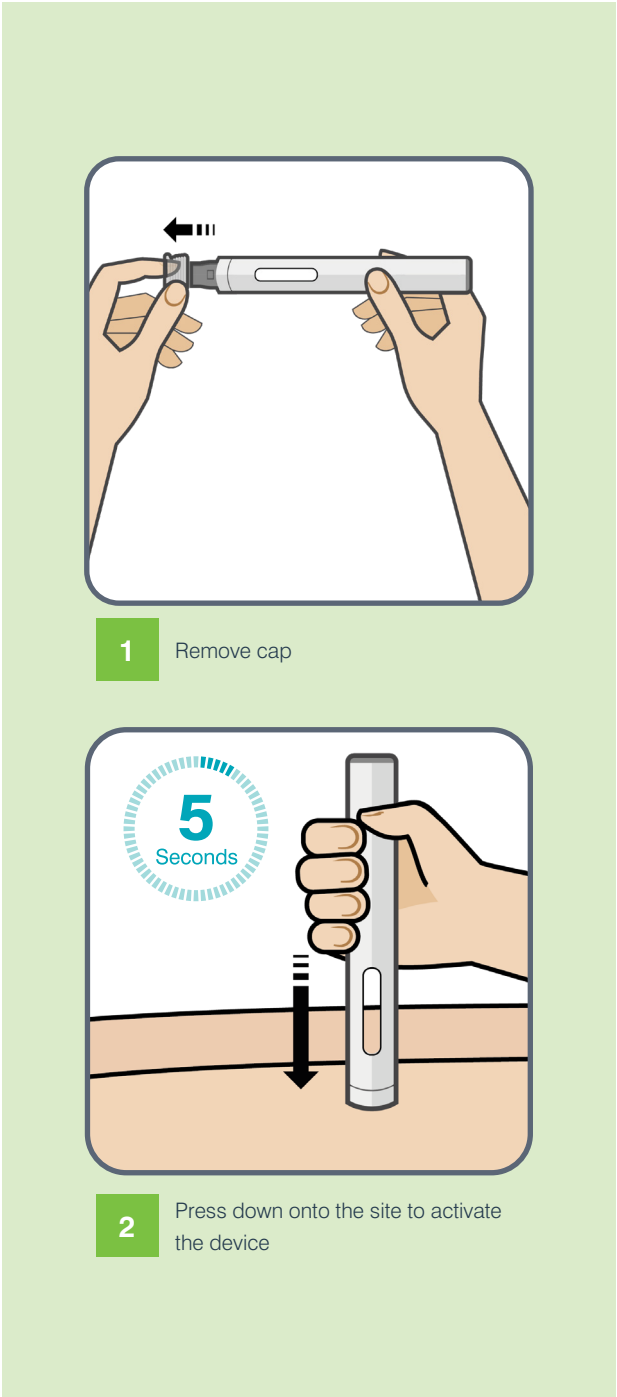
- Clear drug visibility via large device window aids dose checking
- Designed to prevent needlestick injuries with passively deployed complete needle shielding
- Provides reassurance for needle phobic patients with needle hidden before, during and after use
- Audible and visual notifications to provide clear feedback to the user

Human Factors Testing*

- All patients were able to handle the device
- No unforeseen usability issues
- No difference in device variants tested

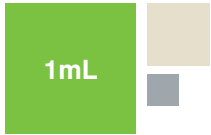


*OM HF study 01/20 n =39 mixed patient types including MS and RA and HCPs



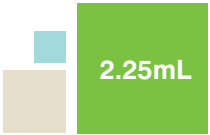
Fill Volume Flexibility

Aidaptus® readily adapts to a range of different drug fill volumes with no change parts, using a self-adjusting plunger.



Can readily adapt to a range of drug fill volumes with no change parts.

0.3mL – 1mL*



Can readily adapt to a range of drug fill volumes with no change parts.

0.5mL - 2.0mL*



* In addition to an air bubble & overfill

Accommodates both 1mL and 2.25mL glass syringes in the same device.

Aidaptus[®] versatility; Branding and customisation

Aidaptus[®] is available in two base platform options: a clear outer body or opaque solid housing. This provides you with versatility for branding and customisation as well as options for market segmentation and lifecycle management.

OPTION 1

Colour Wrap

Body of device is transparent

- Fill volume flexibility
- Simple branding and customisation
- Speed to market



OPTION 2

Coloured Moulded Components

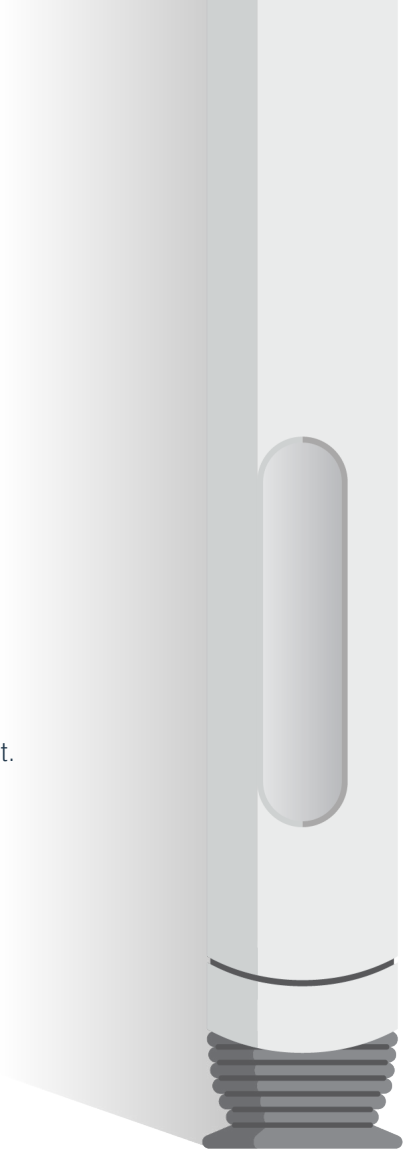
Body of device is moulded in a colour Opaque, with window aperture

- Customise component colour
- Base geometry unchanged
- Full customisation

Aidaptus[®]

Provides flexibility in drug development, clinical trials and lifecycle management.

- ✓ **Flexible**
Accommodates both 1mL and 2.25mL glass syringes in the same device and readily adapts to different fill volumes with no changed parts. Reduces complexity and risk in supply chain, and final assembly.
- ✓ **Drug Development and Lifecycle Management**
Aidaptus[®] is especially suitable for reducing risk during drug development and lifecycle management, if the drug formulation has to change - this device doesn't.
- ✓ **Fast to Market**
Minimal change parts for platform capability, which reduces risk.
- ✓ **Versatile**
Simple effective branding and customisation options.
- ✓ **Robust**
Independent 2 phase needle insertion and drug delivery, limiting impact forces on the syringe, which reduces risk of syringe breakages.
- ✓ **Intuitive**
2-step use, automatic needle insertion, simple steps for use.
- ✓ **Partnership**
Owen Mumford Pharmaceutical Services have a proven track record and broad experience of auto-injector development, manufacture and supply.



Aidaptus®

Versatile design intuitive delivery

Owen Mumford Pharmaceutical Services supporting
your combination product development

- Design, development & manufacturing
- Labelling & Packaging
- HF studies
- Intellectual Property
- Regulatory support
- MRHA drug licence
- Final assembly



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