



BLOOD COLLECTION DEVICE

The Medigard Blood Collection Device (BCD) features inventive vacuum technology to capture the needle after blood has been collected. This prevents needle stick injury by eliminating human contact with used needles. It avoids potential aerosoling, a dangerous spray of fluid getting into the air when the needle is retracted.

Medigard's unique BCD is easy to use and technically superior to other safety blood collection devices and has a shelf life of five years.

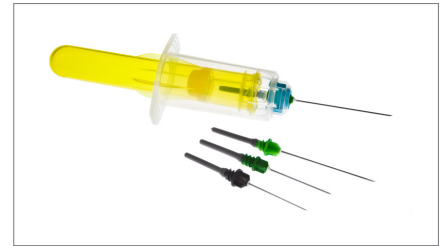
Extensive product testing has found health care workers in the US and Australia unequivocally prefer Medigard's BCD to other products on the market.

Medigard's BCD vacuum design and minimal parts means a lower cost of production and a competitive price.

The Medigard BCD is:

- ADAPTABLE – The BCD uses a wide variety of commercially available Blood Collection Needles.
- SAFE – Medigard products protect healthcare workers from needle stick injuries. More than 20 different blood borne disease, including HIV-AIDS, Hepatitis B and C can be transmitted by needle stick injury. More than 1 million cases of needle stick injury to healthcare workers are reported worldwide each year.
- UNIQUE – Medigard developed the vacuum retraction technology in-house.
- EFFECTIVE – Medigard products avoid dangerous aerosoling (blood spatter) during needle retraction.
- AFFORDABLE – Medigard products contain fewer parts, are easier to manufacture and price competitive.

Fact Sheet 02 PRODUCTS



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THE BCD MARKET

There are as many as 700 million BCDs used in the US each year.

The US market for safety BCD sets is about USD\$350 million a year.

The worldwide market for BCDs is about 1400 million units per year.

The market is growing at an annualised rate of about 10 percent. In many developed countries such as the UK, Europe, Australia and Canada, safety blood collection devices are replacing traditional devices.



AUTO-RETRACTABLE SYRINGE

The Medigard vacuum Retractable Syringe uses cutting-edge design and aims to be the best and most economical on the market. It operates as a normal syringe, but automatically retracts the needle from the person's body using the vacuum in the plunger to draw the needle back. The needle is locked away safely ready for disposal.

The Medigard Auto-retractable Syringe is available in 1mL, 3mL, 5mL and 10mL sizes.

It has no spring and no fixed needle or needle cover which means reduced costs as well as manufacturing and packaging advantages.

The Medigard Auto-retractable Syringe is:

- ADAPTABLE – Medigard products use the international standard Luer connection enabling the interchange of needles (except for the 1mL syringe).
- SAFE – Medigard products protect healthcare workers from needle stick injuries. More than 20 different blood borne disease, including HIV-AIDS, Hepatitis B and C can be transmitted by needle stick injury. More than 1 million cases of needle stick injury to healthcare workers are reported worldwide each year.
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Fact Sheet 02 PRODUCTS



The Medigard Auto-retractable Syringe's vacuum mechanism is far less cumbersome than competitor's spring and sheath methods.

THE MARKET

The Medigard Auto-retractable Syringe has been specifically designed for the US safety syringe market. Its vacuum mechanism is far less cumbersome than competitor's spring and sheath methods.

About 18 billion syringe units are sold worldwide each year, with almost half sold in the US. The safety syringe market is about 8-10 billion units, valued at up to USD\$5 billion.



MANUAL RETRACTABLE SYRINGE

Medigard has also designed a safety Manual Retractable Syringe. At the end of the injection stage, the plunger connects with the Luer and pulls the needle back inside the barrel of the syringe. The plunger can then be snapped off while the Luer and needle are firmly locked inside the barrel. The safe device can then be easily disposed of.

The 3mL Manual Retractable Syringe is suitable for the US market, but is designed with much wider market appeal. Its features and cheaper price are expected to have large market acceptance in developing countries such as China and India, regions of Africa, and in nations where specific needle stick injury prevention legislation has not yet been enacted.

The Medigard Manual Retractable Syringe is:

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The Medigard Manual Retractable Syringe's features and cheaper price are expected to have large market appeal in Third World and developing countries.

THE MARKET

The market for the Manual Retractable Syringe is worth up to USD\$120 million.



INTRAVENOUS VALVE

The Medigard Intravenous Valve operates both as an essential component of the cannula and as a stand-alone device.

IV access valves are used extensively where catheters are inserted into the body for an extended period of time. The valves are used as access points in the catheters in preference to a syringe for delivering fluid, administering drugs and taking blood samples. The valve gives needleless access and reduces the risk of needle stick injury.

The Medigard IV valve is a two-way valve allowing the introduction of liquids and the withdrawal of blood. It provides clear visibility of fluids. A syringe can be inserted with or without a Luer lock.

The Medigard IV valve design eliminates technology design faults that are common with other IV valve devices. The Medigard device incorporates positive flow that prevents backward flow and the possibility of blood clotting.

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- UNIQUE – Medigard developed the vacuum retraction technology in-house.
- EFFECTIVE – Medigard products avoid dangerous aerosoling.
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Fact Sheet 02 PRODUCTS



The Medigard IV Valve design eliminates technology design faults that are common with other IV valve devices.

THE MARKET

The worldwide market for IV access valves, ports and connectors is about USD\$200 million.



FLASH BACK NEEDLE

Medigard's Flash Back Needle has been designed as a complimentary product for the Blood Collection Device.

Medigard has designed a Flash Back Needle as a complementary product for the BCD.

The Flash Back Needle is expected to be bundled with the BCD from 2012. It is expected about 50 percent of BCDs will be bundled with our flash back needle.

Flash back needles allow health care workers immediate visual confirmation of a successful venipuncture and are expected to become standard attachment for BCDs.

THE MARKET

The Flash Back Needle market is potentially worth USD\$100 million.