KB Medical Group was founded in Irvine, California. A professional company specialized in producing innovative Safety Medical Products to protect health care workers against sharps injury. KB Medical Group is committed to address these issues by providing the most effective safety-engineered therapy devices for optimum safety in the hospitals.

In the past several years, KB Medical Group focus on working on a wide variety of innovative, high-quality enteral feeding products and accessories uniquely designed for delivering nutrition and medication to pediatric and adult patients. This new standard ENFit® connection has been introduced in-line with ISO80369-3. It has a unique enteral-specific design that help reduce the risk of enteral tube feeding misconnections and improve the patient safety.

KB Medical Group In the world

- Our Headquarter: Irvine, California, USA.
- Our production unit: Jiangsu Kangbao Medical Equipment Co. Ltd. is our professional manufacturer in Jiangsu province, China (1 hour away Shanghai) for more than 30 years.
- Our commercial office: Hangzhou Best Valley Medical Technology Co. Ltd. is our Commercial Center in China which is located at Hangzhou, Zhejiang province (40 minutes away Shanghai), the center in charge of the business communication with customers, arrange the customers for visiting plan, QA audit, also provide service for the registration documents and documentary works.

Key facts of our KB Medical Group

- Employees: 600
- Land of production unit in China: Over 70,000m²
- Clean room in China (100,000 grade): Over 12,000m²
- Workshops in China: Over 40,000m²
- Subsidiaries: 3
- Worldwide distributors: Over 200

Quality, Certificate, Innovation

- EN ISO 13485: 2012
- CE
- FDA
- Over 24 Registration Certificate in SFDA China
- Over 6 Invention Patent
- Over 12 Utility Model Patent
- High-Tech Enterprise
### Key facts of our production unit

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Equipment Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>40 sets</td>
<td>Injection molding machines</td>
</tr>
<tr>
<td>16 sets</td>
<td>Auto printing lines for syringes</td>
</tr>
<tr>
<td>8 sets</td>
<td>Auto-assembling machines for syringes</td>
</tr>
<tr>
<td>8 sets</td>
<td>Blister packing machines</td>
</tr>
<tr>
<td>8 sets</td>
<td>Auto-loading packing machines for syringe (1/3/5/10/20/60/100ml)</td>
</tr>
<tr>
<td>1 set</td>
<td>Auto-assembling machine for infusion set</td>
</tr>
<tr>
<td>1 set</td>
<td>Auto-assembling machine for scalp vein set</td>
</tr>
<tr>
<td>3 sets</td>
<td>Auto-assembling machines for hypodermic needle</td>
</tr>
<tr>
<td>3 sets</td>
<td>Modernization testing lab for Physical, Chemical and Biological</td>
</tr>
<tr>
<td>3 sets</td>
<td>EO Sterilization chamber</td>
</tr>
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</table>

*Testing center*
Infusion therapy
- Wide range of a safety way for injection of vein for medication infusion.
- Safety scalp vein set
- Scalp vein set
- IV burette
- IV cannula
- Safety IV cannula
- IV cannula dressing
- Sterile IV start kit
- Extension tube
- Three way stopcock

Syringe and needle
- Pre-filled flush syringe
- Dental needle
- Irrigation needle
- Suture removal Set
- Veterinary needle
- Hard pack syringe

Hazardous drug safety
- Various drug preparation needles for safety drug admixture and disposal of used sharps.
- Aspiration needle with safety shield
- Blunt needle with /without filter
- Curved needle
- Side hole needle
- Needle free system
- Safety box for the disposal of used sharps
- Sharp container
- Endoscope transport pad
- Ultimate sharps safety stations (needle counter)
- Safety medical products for NEEDLE STICK PREVENTION

Safety medical products
- Wide range of safety medical products to protect health care workers against sharps injuries.
- Safety scalp vein set
- Safety IV cannula
- Safety needle
- Safety syringe
- Auto-Disable syringe
- Safety blood collection needle
- Safety lancet
- Safety blood lancet
- Safety insulin pen needle
- Safety insulin syringe
- Safety fistula needle
- Safety drug preparation needle
- Ultimate sharps safety stations
- Needle free system
- Safety box for the disposal of used sharps
- Sharp container

Nutrition therapy
- Various components for nutrition therapy which is compliant with the ISO 80369-3 to help reduce the risk of misconnections.
- ENFit® syringe
- The ENFit® connector
- ENFit® Feeding set
- Neural syringe
- Irrigation syringe

Specimen collection
- Our safety blood collection system help eliminate accidental needle stick injuries when collection blood sample.
- Blood collection needle
- Safety blood collection needle
- Safety lancet
- Blood collection tube

Anesthesia & pain management
- Wide range of products for subdural, lower thorax and lumbar spinal puncture.
- Spinal needle
- Anesthesia kit
- High pressure manifold
- NRFit™ syringe

Transfusion therapy
- Complete range of safety way to collect, preserve, filtration and administration for human blood and blood components.
- Gravity blood administration sets
- Blood bag
- Cord blood bag

Renal therapy
- Innovative, high performance products and services for use in dialysis, provide a basis which targets improved clinical outcomes for the patient, while minimizing costs and risks for the healthcare providers.
- Fistula needle
- Safety fistula needle
- Blood line
- Hemodialysis care kit

Urinary care
- We provide solutions to help improve patient safety and infection prevention in urinary care.
- Urine drainage bag
- Leg bag
- Urine meter
- Irrigation tray
- Irrigation syringe

Diabetes care
- Complete range of the diabetes needles and the innovative safety insulin syringe offers comfort and easy insulin therapy injection, also help eliminate accidental needle stick injury.
- Safety insulin syringe
- Insulin syringe
- Insulin pen needle
- Safety insulin pen needle
- Sharp disposal container for insulin pen needle
- Alcohol swab
Infusion therapy

Safety scalp vein set

It is used for injection of vein for medication infusion, the safety mechanism help to eliminate accidental needlestick injuries.

Features
- The ergonomic design is ideal for clinician handling and patient comfort.
- Offering an easy grip.
- The design to minimize slips and touch contamination.

Safety scalp vein set

Infusion set

Delivering solutions in IV therapy for improved patient care.

Features
- Sharp spike is easy to puncture.
- The ISO standard spike can fit with any infusion bottles and bags.
- Soft and transparent chamber is easy to press and adjust solution.
- Antibacterial air-inlet.

<table>
<thead>
<tr>
<th>Code</th>
<th>Gauge</th>
<th>Size and length</th>
<th>Color</th>
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<tbody>
<tr>
<td>SSVS27/SVS27</td>
<td>27G×5/8”-3/4”</td>
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<td>18G×1-1/8”</td>
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<td>Pink</td>
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</table>
We offer a wide variety of IV accessories to meet the needs of current practice:

- Small drip chamber 14.30*50mm.
- Medium drip chamber 15.50*54mm.
- Big drip chamber 17.20*61mm.
- With air vent, without air vent.
- Transfer set.
- 15 drops, 20 drops, 60 drops/mL.
- With filter or without filter.
- Small flow regulator, Medium flow regulator, ABS Adelberg flow regulator.
- Accurate flow regulator rate of 5mL/hr to a maximum of 300mL/hr.
- Latex straight tube, injection bulb, Y injection port.
- Latex free straight tube, injection bulb, Y injection port.
- Needleless Y injection port, Needle free injection cap.
- Luer slip, luer lock connector.
- Red cap, blue cap, white cap.
- PVC tube length 1.3m to 2m or any required length.
- PVC tube DEHP FREE.
- Non-PVC tube.
- Customization mold construction for any kind of components.

Features:
- Soft and transparent chamber for easy to read graduated scale.
- Floating disk for easy fluid level indication and auto shut-off to resist the air bulb to the vein.
- Integral 15 micron air-guard filter to prevent air introduction.
- Gravity use.
Infusion therapy

**IV cannula**

Delivering solutions in IV therapy for a short term period.

**Features**
- Color-coded casing cap allows for easier identification of catheter size.
- Translucent catheter hub and flashback chamber allows for easy detection of blood.
- Flash back at vein insertion.
- Teflon radio-opaque catheter.
- Precision finished pet or pu catheter assures stable flow and eliminates catheter tip kink.
- The sharp needle features a universal bevel geometry that allows a wider choice of insertion angles.
- Can be connected to syringe by removing filter cap to expose luer taper end.
- Use of hydrophobic membrane filter eliminates blood leakage.
- Close and smooth contact between catheter tip and inner needle enables safe and smooth vein puncture.

**Code**

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<tr>
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<th>Wing type</th>
<th>Injection type</th>
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<td>IVCI14</td>
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<td>IVCI22</td>
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<td>IVCP24</td>
<td>IVW24</td>
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<tr>
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<td>Grey</td>
</tr>
<tr>
<td>20G 1 1/4&quot;, 2&quot;</td>
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</tr>
<tr>
<td>22G 1&quot;</td>
<td>Blue</td>
</tr>
<tr>
<td>24G 3/4&quot;</td>
<td>Yellow</td>
</tr>
</tbody>
</table>

**Type 1**

**Type 2**

---

**Safety IV cannula**

**Features**
- Safety design can reduce needle stick injuries.
- Result in less blood exposure to staff than catheters featuring spring-retraction of the needle.
- Promote first Stick Success.
- The safety design ensures that the safety mechanism is always activated and prevents re-insertion of the styllet.
- No extra steps are required to ensure healthcare worker and patient safety.
- With this easy-to-use safety IV catheter, you can be confident of successful needle and catheter placement every time.
- PVC-Free, DEHP-Free and Latex-Free.
- Close system and open system available.
Infusion therapy

IV cannula dressing

Fixing IV catheter, PICC and CVC catheter. Apply for friction skin or wet skin, such as skin care after tracheal incision. Apply for slight bruise, cut, suturing wound, etc. as a secondary fixation.

Features

- High permeability, avoid causing maceration to the skin.
- Prevent bacteria invasion, diminish the risk of infection.
- Waterproof, patient can take shower or bath.
- Transparent, wound situation could be observed anytime.
- Soft and comfortable, suit for different body parts, hypoallergenic.
- Strong viscosity, could keep on skin for 7 days.
- Safe and convenient, the design of dressing make it easy operation.
- Various sizes and styles, including paper frame IV dressing, new utility style, hydrocolloid IV dressing, high-permeable grid-coating transparent dressing, PE foam frame IV dressing, non-woven IV dressing, and could fit to different clinical needs.
- Easy to use, could prevent wrinkling of dressings (absorbent pad could add to the dressing based on customer’s requirements.
- Super absorbency, can prevent maceration.

Sterile IV start kit

- 2ea Gauze sponges, 2x2"8ply.
- 1ea Label with four lines (optional).
- 1ea Tourniquet 3/4x18 synthetic.
- 1ea IV dressing film 6x7cm.
- 1ea PE tape, 3/4x18”.
- 1ea Prep. appl 2% chg, 1,5ml (optional).
- Customization types are possible.

Infusion therapy

Extension tube

Features

- Our extension sets are available in various lengths and dimensions to accommodate various applications.
- A range of lengths that provide flexibility in a variety of clinical settings.
- Available with various needleless connector options.
- A range of various flow clamps, components, connector options.
- To prevent dislodgment of IV catheter and offers ease of use during connection.
- Components are available for DEHP free or Latex free.

Description

- Needleless type, 1way, female luer lock, male rotating luer lock, slide clamp, OD 4mm
- Needleless type, 2way, female luer lock, male rotating luer lock, slide clamp, OD 4mm
- Needleless type, 3way, female luer lock, male rotating luer lock, slide clamp, OD 4mm
- Needleless type, 4way, female luer lock, male rotating luer lock, slide clamp, OD 4mm
- Male and female luer lock
- T connector, male and female luer lock, slide clamp
- 3way stopcock, male rotating luer lock
- Needleless type, 1way, female luer lock, male rotating luer lock, slide clamp, OD 2.35mm
- Needleless type, 2way, female luer lock, male rotating luer lock, slide clamp, OD 2.35mm
- Needleless type, 3way, female luer lock, male rotating luer lock, slide clamp, OD 2.35mm
- Needleless type, 4way, female luer lock, male rotating luer lock, slide clamp, OD 2.35mm

Code

ET01
ET02
ET03
ET04
ET05
ET06
ET07
ET08
ET09
ET10
Infusion therapy

Three way stopcock

Maximize fluid flow control and fluid and drug delivery efficiency.

Features

- We can offer a full range of stopcocks to assist you in controlling fluid flow through IV delivery systems.
- Single packaged, as various options to meet all of your IV therapy needs.
- All options are liquid resistant with a transparent housing for clear view of the fluid path.

Syringe and needle

Disposable syringe with needle

Injection or harvesting of biological material, depending on choice of needle.

Features

- Luer slip or luer lock nozzle, central or eccentric nozzle.
- High transparency barrel.
- Smooth consistent plunger action.
- Clear, legible and easy to read graduated scale.
- Minimal dead space.
- Triple contact rubber gasket and plunger-block to prevent accidental leakage during aspiration.
- Well rounded finger grips for safe handling.
- 3 parts and 2 parts are available.
- Sterilized with Ethylene Oxide.
- Gamma ray resistant material are available.
- Latex free pistons are available.

Dispersible syringe with needle

3 parts/2 parts 1ml DS3P-1
3 parts/2 parts 2ml DS3P-2/DS2P-2
3 parts/2 parts 5ml DS3P-5/DS2P-5
3 parts/2 parts 10ml DS3P-10/DS2P-10
3 parts/2 parts 20ml DS3P-20/DS2P-20
3 parts 30ml DS3P-30
3 parts 50-60ml DS3P-50
3 parts 100ml DS3P-100

Syringe caps
Features

- Compatible with all standard hypodermic needles.
- Convenient to use, one hand activation, minimal training required.
- Economic, reduce the cost of safety injection.
- Triple safety mechanism to guarantee 100% safety.
- Visual confirmation of safety activation.
- Click device guarantee no obstruction during injection.
- Both luer slip and luer lock nozzle are available.

Disposable syringe with safety needle

<table>
<thead>
<tr>
<th>Type</th>
<th>Code</th>
<th>Size</th>
</tr>
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<tbody>
<tr>
<td>1ml</td>
<td>DSS1-1</td>
<td>TYPE1</td>
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<tr>
<td>2-3ml</td>
<td>DSS1-2</td>
<td>TYPE1</td>
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<tr>
<td>5ml</td>
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<td>DSS1-20</td>
<td>TYPE2</td>
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<td>DSS1-30</td>
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<tr>
<td>100ml</td>
<td>DSS1-100</td>
<td>TYPE2</td>
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</table>
Syringe and needle

Safety syringe

It is used in extraction of clinical liquid medicine and for injection, help eliminate accidental needle stick injury.

Features

- Available without needle or needles. Compatible with all standard hypodermic needles.
- Convenient to use, safety mechanism will be activated when the intended dose has been delivered.
- Pull back the plunger after injection, the locking ring secures the needle in the barrel of the syringe preventing the reuse of syringes.
- Special design can prevent the needle back into the barrel occasionally.
- No gap design guaranteed the complete injection without dead space.
- Exchangeable needles allow clinician to change needle after aspiration of medication.
- Visual confirmation of safety activation.
- Various range of syringes to meet the clinical requirements.

Using step

- Take off the needle protector.
- Aspiration the medication.
- The safety medication is automatically activated.
- After injection, pull back the plunger to the locking ring.
- Break the plunger.

Size

<table>
<thead>
<tr>
<th>Code</th>
<th>Needle size</th>
<th>Size</th>
<th>Code</th>
<th>Needle size</th>
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<tbody>
<tr>
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<td>27G-30G</td>
<td>SN2-20</td>
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<td>SN2-21</td>
<td>5ml</td>
<td>20G-25G</td>
<td>SN2-22</td>
<td>10ml</td>
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<tr>
<td>SN1-20</td>
<td>0.5ml</td>
<td>27G-30G</td>
<td>SN1-21</td>
<td>1ml</td>
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<tr>
<td>SN1-22</td>
<td>5ml</td>
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<tr>
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<td>27G-30G</td>
<td>SN1-24</td>
<td>1ml</td>
</tr>
<tr>
<td>SN1-24</td>
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<td>20G-25G</td>
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<td>20G-25G</td>
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<td>SN1-28</td>
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<td>SN1-28</td>
<td>5ml</td>
<td>20G-25G</td>
<td>SN1-29</td>
<td>10ml</td>
</tr>
</tbody>
</table>

Syringe and needle

Safety needle

It is compatible with all syringes in clinical injection of liquid medicine, easy to use, help eliminate accidental needle stick injury.

Features

- It is compatible with all standard syringes with luer lock or luer slip tip.
- Optimum visualization of injection site.
- After the injection, only one hand activation, the needle was covered completely which can immediately achieve the purpose of protection.
- Special safety lock on needle hub, triple safety mechanism to guarantee 100% safe protection.
- Effective function and simple design can reduce the cost of safety injection.
- Easy and quick identification of the needle gauge by ISO colorful coded.
- A wide range of sizes are available.

Using step

- Assemble the safety needle on the luer tip of sterilized syringe.
- Open the safety protector, which will open automatically under the elastic force.
- Aspirate the medication.
- After injection, apply a force on the safety protector by one hand until the safety protector covers the needle completely.

Code | Gauge | Size and length | Color
----|-------|----------------|-------
SN1-20 | 0.33×13 | 28G×1/2” | Red
SN1-21 | 0.40×10-16 | 26G×3/8”-5/8” | Grey
SN1-22 | 0.45×10-16 | 26G×3/8”-5/8” | Brown
SN1-23 | 0.50×10-16 | 26G×3/8”-5/8” | Orange
SN1-24 | 0.55×10-16 | 24G×1” | Purple
SN1-25 | 0.60×10-16 | 22G×1”-1-1/2” | Blue
SN1-26 | 0.70×10-16 | 22G×1”-1-1/2” | Black
SN1-27 | 0.80×10-16 | 21G×1”-1-1/2” | Green
SN1-28 | 0.90×10-16 | 20G×1-1/2” | Cream
SN1-29 | 1.00×10-16 | 16G×1-1/2” | Pink
SN1-30 | 1.20×10-16 | 16G×1-1/2” | White
Syringe and needle
Safety needle

Features
- High quality 304 stainless steel.
- Triple sharpened tip with anti-coring treatment maximize patient comfort.
- Both short bevel and long bevel are optional.
- Silicon coated to ease skin penetration and minimise pain.
- Larg ID, high flow, both thin wall, and regular wall are available.
- Semi-transparent needle-hub.
- International color coded hub by size for clear recognize.
- Customer special needle size as per required.

<table>
<thead>
<tr>
<th>Size (mm)</th>
<th>Color</th>
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<th>Bevel Angle</th>
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<tr>
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<td></td>
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<td>Pink</td>
<td>18G</td>
<td></td>
<td></td>
<td>HN18</td>
</tr>
<tr>
<td>1.10</td>
<td>Red-purple</td>
<td>17G</td>
<td></td>
<td></td>
<td>HN17</td>
</tr>
<tr>
<td>1.20</td>
<td>White</td>
<td>16G</td>
<td></td>
<td></td>
<td>HN16</td>
</tr>
<tr>
<td>1.30</td>
<td>Blue-gray</td>
<td>15G</td>
<td></td>
<td></td>
<td>HN15</td>
</tr>
<tr>
<td>1.40</td>
<td>Pale-green</td>
<td>14G</td>
<td></td>
<td></td>
<td>HN14</td>
</tr>
</tbody>
</table>

Using step
- Latest innovative design with special safety shield.
- Protection to healthcare worker during transporting device and after use.
- Give much easy operation to nurses.
- Safely locked by a slight pushing up.
- Compatible with all kinds of syringes.

Syringe and needle
Disposable hypodermic needle

Intradermal, subcutaneous, intramuscular and intra-articular injection, harvesting of biological material depending on chosen gauge.

<table>
<thead>
<tr>
<th>Size (mm)</th>
<th>Color</th>
<th>Gauge</th>
<th>Length</th>
<th>ID</th>
<th>Bevel Angle</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>OD (mm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.25</td>
<td>Blue</td>
<td>31G</td>
<td>1/6&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.30</td>
<td>Light yellow</td>
<td>30G</td>
<td>1/4&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.35</td>
<td>Red</td>
<td>29G</td>
<td>1/3&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.40</td>
<td>Grey</td>
<td>27G</td>
<td>1/2&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.45</td>
<td>Brown</td>
<td>26G</td>
<td>5/8&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.50</td>
<td>Orange</td>
<td>25G</td>
<td>1&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.55</td>
<td>Red-purple</td>
<td>24G</td>
<td>3/4&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.60</td>
<td>Blue-green</td>
<td>23G</td>
<td>1&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.65</td>
<td>Black</td>
<td>22G</td>
<td>1 1/2&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.70</td>
<td>Green</td>
<td>21G</td>
<td>1 1/2&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.80</td>
<td>Yellow</td>
<td>20G</td>
<td>2&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.90</td>
<td>Cream</td>
<td>19G</td>
<td>2&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.00</td>
<td>Pink</td>
<td>18G</td>
<td>2&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.10</td>
<td>Red-purple</td>
<td>17G</td>
<td>2&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.20</td>
<td>White</td>
<td>16G</td>
<td>2&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.30</td>
<td>Blue-gray</td>
<td>15G</td>
<td>2&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.40</td>
<td>Pale-green</td>
<td>14G</td>
<td>2&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remark: We can make special size according to clients’ request.
Syringe and needle

Auto-Disable syringe for fixed-dose immunization

- It is mostly used for WHO or UN aid project, the plunger of syringe was locked to prevent the reuse, help eliminate touch contamination.

Features
- In all cases, once the auto-disable feature has been activated, it was not possible to re-use the syringe and the needle under the normal conditions of use.
- It was not be possible to override the auto-disable feature when tested in accordance with the test method of ISO7886-3 Annex C.
- The auto-disable feature is automatically and remains effective from the point when 50% of the intended fixed dose has been delivered.
- Invention patented.

Syringe with non-integrated needle shall have a minimum needle unicon force applied as push or pull in the direction of the needle axis in accordance with ISO 7866:1993. The auto-disable feature is automatically activated on completion of the delivery of the intended fixed dose. Central luer slip or eccentric luer slip.

Pre-filled flush syringe

- Our flush syringes provide dependable, cost-effective alternatives to vial-based flushing systems.

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
<th>Needle size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADS1-0.05</td>
<td>0.05ml</td>
<td>23G-27G</td>
</tr>
<tr>
<td>ADS1-0.2</td>
<td>0.2ml</td>
<td>23G-27G</td>
</tr>
<tr>
<td>ADS1-0.3</td>
<td>0.3ml</td>
<td>23G-27G</td>
</tr>
<tr>
<td>ADS1-0.5</td>
<td>0.5ml</td>
<td>23G-27G</td>
</tr>
<tr>
<td>ADS1-1</td>
<td>1ml</td>
<td>23G-27G</td>
</tr>
</tbody>
</table>

Type 1. With integrated needle

Type 2. With non-integrated needle
Syringe and needle

Dental needle

Features
- High quality 304 stainless steel.
- Short and long needle bevel are available.
- Color coded hub by size for clear recognition.
- Different sizes available.
- Designed special for dental use.

Irrigation needle

The irrigation needle are intended for irrigation purposes in dentistry and ophthalmology, or used for withdrawal of drugs/solutions out of vials.

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN25</td>
<td>25G</td>
<td>38/25/21mm</td>
</tr>
<tr>
<td>DN27</td>
<td>27G</td>
<td>38/25/21mm</td>
</tr>
</tbody>
</table>

Remark: We can make special size according to clients' request.

Suture removal Set

Designed for all minor surgical procedures and emergency situation, these particular sterile disposable trays contain hospital ward quality instruments which allow for effective management of wound suturing requirements.

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metal Littauer scissors</td>
<td>1ea</td>
</tr>
<tr>
<td>Plastic suture forceps</td>
<td>1ea</td>
</tr>
<tr>
<td>Gauze pad</td>
<td>1ea</td>
</tr>
<tr>
<td>Alcohol prep pad</td>
<td>1ea</td>
</tr>
<tr>
<td>Iodine prep pad</td>
<td>1ea</td>
</tr>
</tbody>
</table>

Veterinary needle

Used for veterinary intradermal, subcutaneous, intramuscular and intra-articular injection, harvesting of biological material depending on chosen gauge.

Features
- Luer fitting or record fitting are available.
- By copper base and strong enough.
- Full range for chosen.

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>VN14</td>
<td>14G</td>
</tr>
<tr>
<td>VN15</td>
<td>15G</td>
</tr>
<tr>
<td>VN16</td>
<td>16G</td>
</tr>
<tr>
<td>VN17</td>
<td>17G</td>
</tr>
<tr>
<td>VN18</td>
<td>18G</td>
</tr>
<tr>
<td>VN19</td>
<td>19G</td>
</tr>
<tr>
<td>VN20</td>
<td>20G</td>
</tr>
<tr>
<td>VN21</td>
<td>21G</td>
</tr>
<tr>
<td>VN22</td>
<td>22G</td>
</tr>
<tr>
<td>VN23</td>
<td>23G</td>
</tr>
<tr>
<td>VN24</td>
<td>24G</td>
</tr>
<tr>
<td>VN25</td>
<td>25G</td>
</tr>
</tbody>
</table>
Syringe and needle

Hard pack syringe

We offer syringes for the pet care market.

Features

- Hard pack design, convenient and safe cartridge pack, easily disposed of and transportable.
- Heat sealed cap for assurance of sterility.

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS01</td>
<td>1ml</td>
</tr>
<tr>
<td>HS02</td>
<td>2ml</td>
</tr>
<tr>
<td>HS05</td>
<td>5ml</td>
</tr>
<tr>
<td>HS10</td>
<td>10ml</td>
</tr>
</tbody>
</table>

Drug preparation

We offer various drug preparation needles for safety drug admixture, minimizes the risk of needle stick injury while drawing up medication, medication re-constitution and accessing IV bags.

Aspiration needle with safety shield

Features

- USA Patent pending, PCT with a priority date already initiated.
- FDA 510K approved.
- The shield that prevents accidental needle stick injury, 100% to protect the doctors and nurses from the danger.
- Intended for aspiration of medications from all kinds of vials safely.
- Injection of medications into IV rubber ports safely.
- Transfer of biological specimens, blood into vacuum specimen tubes safely.
- Compatible with standard luer slip and luer lock syringes.

Blunt needle with/without filter

Blunt needle is a sterile, single use device used for safety drug admixture.

Features

- 45° bevel angle optimized for fluid transfer with e.g. stoppered vials, glass and plastic ampoules.
- 45° bevel angle thin walled cannula for faster draw-up (up to 20% higher draw-up speed in comparison to comparable products in the market).
- Made of stainless steel with special smoothing bevel.
- Blunt smoothing bevel design minimizes the risk of needle stick injury while drawing up medication, medication re-constitution and accessing IV bags.
- Red colored hub and protective cap for clear differentiation.
- Blunt needle with filter with a 5micro filter membrane to prevent glass particles being drawn into the syringe when preparing medication from ampoules.
### Hazardous Drug Safety

#### Drug Preparation

#### Curved Needle

**Features**
- The curved needle will reduce the risk of needle stick injuries.
- To avoid cutting the rubber pieces during the penetration.

#### Side Hole Needle

**Features**
- The side hole needle could avoid cutting the rubber pieces during the penetration.

#### Spec.

<table>
<thead>
<tr>
<th>Spec.</th>
<th>Size</th>
<th>Type</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blunt Needle</td>
<td>14G</td>
<td>without filter</td>
<td>BLN14</td>
</tr>
<tr>
<td>Blunt Needle</td>
<td>16G</td>
<td>without filter</td>
<td>BLN16</td>
</tr>
<tr>
<td>Blunt Needle</td>
<td>18G</td>
<td>with filter / without filter</td>
<td>BLNF18/BLN18</td>
</tr>
<tr>
<td>Blunt Needle</td>
<td>19G</td>
<td>with filter / without filter</td>
<td>BLNF19/BLN19</td>
</tr>
<tr>
<td>Blunt Needle</td>
<td>20G</td>
<td>without filter</td>
<td>BLN20</td>
</tr>
<tr>
<td>Curved Needle</td>
<td>14G</td>
<td>without filter</td>
<td>CVN14</td>
</tr>
<tr>
<td>Curved Needle</td>
<td>15G</td>
<td>without filter</td>
<td>CVN15</td>
</tr>
<tr>
<td>Curved Needle</td>
<td>16G</td>
<td>without filter</td>
<td>CVN16</td>
</tr>
<tr>
<td>Curved Needle</td>
<td>17G</td>
<td>without filter</td>
<td>CVN17</td>
</tr>
<tr>
<td>Curved Needle</td>
<td>18G</td>
<td>without filter</td>
<td>CVN18</td>
</tr>
<tr>
<td>Side Hole Needle</td>
<td>16G</td>
<td>without filter</td>
<td>SHN16</td>
</tr>
<tr>
<td>Side Hole Needle</td>
<td>18G</td>
<td>without filter</td>
<td>SHN18</td>
</tr>
<tr>
<td>Aspiration Needle</td>
<td>18G</td>
<td>without filter</td>
<td>ASN18</td>
</tr>
</tbody>
</table>

#### Hazardous Drug Safety

#### Needle Free System

**Features**
- Needle-free system that utilizes split septum technology similar to that of a conventional needle system.
- A blunt plastic cannula replaces the standard needle, to provide needle-free safety while requiring little or no change in existing protocol or IV procedures.
- Designed to eliminate accidental needle stick.
- Provides a swabbable injection site that is a closed system, accessed by inserting a cannula.
- Designed to ensure a safe, secure connection with Clip Lock cannula.
- Compatible with IV fluids, including blood and lipids.
- Visually inspect — with a clear outer housing that allows visible flush confirmation, and an open fluid path that has no fluid entrapment areas.
- Clean — its smooth access surface facilitates effective cleaning and disinfection.
- Connect — minimal connection force is needed, allowing quick, effortless access and easy syringe connection.
- We offer a variety of needleless connector devices to meet the desired need of individual facilities.

#### Code

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safesite</td>
<td>Compatible with IV fluids, including blood and lipids.</td>
</tr>
<tr>
<td>SafesiteY</td>
<td>Compatible with infusion set and IV burettes</td>
</tr>
<tr>
<td>SafesiteP</td>
<td>Innovative positive displacement feature is designed to help reduce catheter occlusions while preventing healthcare workers from accidental needlestick injuries. Compatible with IV catheter.</td>
</tr>
<tr>
<td>Safespike</td>
<td>Compatible with all infusion bottle or medication vial, the ergonomic grip design is ideal for clinician handling and patient comfort, offering an easy-grip barrel designed to minimize slips and touch contamination, help make reconstituting, admixing and IV drug delivery secure and cost-effective.</td>
</tr>
<tr>
<td>SafespikeF</td>
<td>With filter, help make reconstituting, admixing and IV drug delivery secure and cost-effective. Help ensure fluid integrity by removing contaminated particles with a broad range of filtration devices. 1. Min. dia. of filter: 0.45μm 2. Min. dia. of filter: 5μm</td>
</tr>
</tbody>
</table>

### Needle-free System Offer a Safe Way to Access IV Lines Without the Use of a Needle, Which Greatly Reduces the Risk of Accidental Needle stick Injuries.
Safety box for the disposal of used sharps

It could contain used contaminated sharps (including syringe, needles, phlebotomy devices, suture needles, IV insert needles, butterflies, Lancets, scalpels) safely and efficiently, until safe disposal or recycling:
- At the point of use
- During temporary storage
- During handling and transport to the point of treatment and final disposal.

Features
- Exactly meet the requirements of WHO/PQS/E10/SB01.1.
- Resistance average force of penetration more than 15N from each position.
- Resistance damage during 100 drops from height of 0.8m.
- Resistance temperatures of up to 170°C periods up to 30minutes.
- Resistance to 48 hours at 43°C and 90% relative humidity in 5mm of water.
- Could be supplied flat-packed to minimize shipping and storage volume.
- Clearly marked with international bio-hazard warning.
- Could be carried in one hand without spillage of contents and without risk of needle stick injury.
- The Bio-degradable cardboard recycled material is used.
- Non-toxic inks, glues and dyes.
- Clear pictorial instructions without writing.
- Chinese invention patented.

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
<th>Sharp aperture dimension Dia (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SB31.25</td>
<td>1.25L</td>
<td>38</td>
</tr>
<tr>
<td>SB3.5</td>
<td>2.5L</td>
<td>38</td>
</tr>
<tr>
<td>SB5</td>
<td>5L</td>
<td>38</td>
</tr>
<tr>
<td>SB10</td>
<td>10L</td>
<td>38</td>
</tr>
<tr>
<td>SB15</td>
<td>15L</td>
<td>38</td>
</tr>
<tr>
<td>SB20</td>
<td>20L</td>
<td>38</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Volume (L)</th>
<th>Diameter (cm)</th>
<th>Height (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC-1R</td>
<td>1.0</td>
<td>11.5</td>
<td>12.5</td>
</tr>
<tr>
<td>SC-2R</td>
<td>2.0</td>
<td>13.5</td>
<td>14.5</td>
</tr>
<tr>
<td>SC-3R</td>
<td>3.0</td>
<td>16.5</td>
<td>17.5</td>
</tr>
<tr>
<td>SC-4R</td>
<td>4.0</td>
<td>19.5</td>
<td>20</td>
</tr>
<tr>
<td>SC-5R</td>
<td>5.0</td>
<td>21.5</td>
<td>23</td>
</tr>
<tr>
<td>SC-6R</td>
<td>6.0</td>
<td>24</td>
<td>25</td>
</tr>
<tr>
<td>SC-8R</td>
<td>8.0</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>SC-15S</td>
<td>15L</td>
<td>20+16×13</td>
<td>30</td>
</tr>
<tr>
<td>SC-15S</td>
<td>15L</td>
<td>20+22×16</td>
<td>30</td>
</tr>
<tr>
<td>SC-30S</td>
<td>30L</td>
<td>34.5×34.5×42</td>
<td>35</td>
</tr>
</tbody>
</table>

Colors: Unbleached sulphate board, or non-chlorine bleached white, or yellow
Sharps disposal solutions

Ultimate sharps safety stations (needle counter)

It is used for needle or sutures counting in the operation room, dangerous sticks from uncounted needles. Can be safely avoided from the needle stick injury.

Features
- We offer a wide selection of counting and disposal systems that utilize foam block, foam strip, adhesive or magnetic retention.
- Each system is housed in a flexible, impact-resistant plastic box that provide protection while minimizing unnecessary handling.
- We have USA PATENT for needle counter with more safety and function, exclusive authorized manufacturer in China.
- PCT with a priority date was already initiated.
- Detachable halves allow the same needle counter to be used in two separate areas.
- A universal needle safety holding device enable to hold either disposable syringe or scalpel.
- Surgical blade safety removal device with a protection wall to protect the jumping of blades.
- A needle sheathing safety device to help user’s hand free and clear of the needle.
- The safety lock device guarantees the needle or blade will not slip from the gap of needle counter.
- The combination of latch and hinge provides a surprisingly secure, simple and inexpensive integrally safety box.

<table>
<thead>
<tr>
<th>Code</th>
<th>Counts</th>
<th>Spec.</th>
</tr>
</thead>
<tbody>
<tr>
<td>NC10</td>
<td>10</td>
<td>Magnet/ foam block/ foam strip/cathode.</td>
</tr>
<tr>
<td>NC15</td>
<td>15</td>
<td>Magnet strip/ clear lid are optional</td>
</tr>
<tr>
<td>NC20</td>
<td>20</td>
<td>Ultimate with safety needle, blade removal</td>
</tr>
<tr>
<td>NC30</td>
<td>30</td>
<td>device, and safety</td>
</tr>
<tr>
<td>NC40</td>
<td>60</td>
<td>lock device</td>
</tr>
<tr>
<td>NC60</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>NC80</td>
<td>80</td>
<td></td>
</tr>
<tr>
<td>UNC20-1</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>UNC20-2</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>UNC60-1</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>UNC60-2</td>
<td>60</td>
<td></td>
</tr>
</tbody>
</table>

It is used to pack the disposal medical drape and kits after surgery, with the drawstring design which is easy for disposal.

Dimension: 93*100cm with core size: 61*100cm, Paper + PE material 90g.
Any customization sizes are available.

Hazardous drug safety

Although the Needle Stick Safety and Prevention Act was signed into legislation in the United States in 2000, there still remains much to be done to protect health-care workers against sharps injuries that potentially expose them to deadly blood borne pathogens. According to recent research, (2011 Healthcare Worker Risks from Short Peripheral Catheter Insertion), percutaneous injuries to healthcare workers from a sharps device are four times more likely to occur than mucocutaneous exposure and pose a greater threat to disease transmission. Also, according to the 2008 Study of Nurses View on Workplace Safety and Needle Stick Injuries, nearly two-thirds of US nurses say needle stick injuries and blood borne infections remain major concerned.

In order to protect health-care workers against sharps injuries, KB Medical Group is committed to address these issues by providing the most effective safety-engineered therapy devices for optimum safety in the hospitals.

Our safety family products includes:
(For detail product information, go to the page mentioned below):

- Safety scalp vein set (Page 1).
- Safety IV cannula (Page 6).
- Safety syringe (Page 11-13).
- Safety needle (Page 14-15).
- Auto-Disable syringe (Page 17-18).
- Safety drug preparation needle (Page 22-23).
- Needle free system (Page 24).
- Safety box for the disposal of used sharps (Page 25).
- Sharp container (Page 26,52).
- Ultimate sharps safety stations (Page 27).
- Safety blood collection needle (Page 34).
- Safety blood lancet (Page 35).
- Safety fistula needle (Page 47).
- Safety insulin syringe (Page 49-50).
- Safety insulin pen needle (Page 51)
With the further research on the structure and function of gastrointestinal tract, it has been gradually recognized that gastrointestinal tract is not only an organ of digestion and absorption, but also an important immune organ. Enteral feeding refers to the delivery of a nutritionally complete feed, containing protein, carbohydrate, fat, water, minerals and vitamins, can directly into the stomach, duodenum or jejunum. Enteral nutrition is the nutritional support provided by the gastrointestinal tract to provide nutrients needed for metabolism and other nutrients. It depends on the length of time, mental state and gastrointestinal function. There are three ways for enteral access:

1. Nasogastric feeding.
2. Gastrostomy.

We offer the various components for Enteral nutrition therapy.

### ENFit® syringe

**Features**

- The Enteral ENFit® syringe tip is compliant with the ISO80369-3 to help reduce the risk of misconnections.
- Offer a full range and are the result of research aimed at creating a product with certified quality and safety features.
- DEHP Free.
- Latex free plungers, made of synthetic rubber which does not contain natural latex, in order to prevent any allergies.
- Low dose syringes have a male design feature within the ENFit® female connector to prevent volume in the dead space.
- Tip cap is available. (ENC6, Page 30).

<table>
<thead>
<tr>
<th>Spec.</th>
<th>Size</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enfit and low dose</td>
<td>1ml</td>
<td>ES1</td>
</tr>
<tr>
<td>Enfit and low dose</td>
<td>3ml</td>
<td>ES3</td>
</tr>
<tr>
<td>Enfit and low dose</td>
<td>5ml</td>
<td>ES5</td>
</tr>
<tr>
<td>Enfit</td>
<td>10ml</td>
<td>ES10</td>
</tr>
<tr>
<td>Enfit</td>
<td>20ml</td>
<td>ES20</td>
</tr>
<tr>
<td>Enfit</td>
<td>30ml</td>
<td>ES30</td>
</tr>
<tr>
<td>Enfit</td>
<td>60ml</td>
<td>ES60</td>
</tr>
<tr>
<td>Bulb</td>
<td>60ml</td>
<td>ES60</td>
</tr>
<tr>
<td>Thumb control ring</td>
<td>60ml</td>
<td>TS60</td>
</tr>
<tr>
<td>Catheter tip</td>
<td>60ml</td>
<td>CT60</td>
</tr>
</tbody>
</table>

### The ENFit® connector

**Features**

- The ENFit® connector is compliant with the ISO80369-3 to help reduce the risk of misconnections.
- The ENFit® connector makes enteral feeding and medication administration easy, efficient and most importantly, comfortable for patients.
- Have a wide range of connector for enteral feeding which along with the syringes, complete a range of products which enable solutes and medication to be prepared and administered in complete safety.
- Customized different connectors according to requirements.
**Nutrition therapy**

**ISO80369-3**

**ENFit® Feeding set**

**Features**
- ENFit® feeding sets are compliant with the ISO 80369-3 to help reduce the risk of misconnections.
- Patient label provides convenient patient documentation.
- Latex-free and DEHP-free.
- EVA material available.

**Advantage of EVA material**
- Ensure absolute Non-DEHP, Non-TOTM, Non-DOA or any other plasticizer.
- Ensure absolute non risk of toxicity.
- Ensure the maximum safety for enteral feeding technology.

**ORFS60**
- ENPLUS spike with cap.
- PVC tube 1.73m/2.28m / customized.
- Regulator with wheel.
- Drip chamber.
- Y connector with cap.
- ENFit® lock female connector with cap.
- Patient label.
- Silicon insert (optional) 11cm / 13cm / customized.

**ENF03**
- Feeding bag (1000/1200/1500ml).
- PVC tube 1.73m / 2.28m / customized.
- Regulator with wheel.
- Drip chamber.
- Y connector with cap.
- ENFit® lock female connector with cap.
- Patient label.
- Silicon insert (optional) 11cm / 13cm / customized.

**ENF04**
- Feedcap adaptor.
- PVC tube 1.73m / 2.28m / customized.
- Regulator with wheel.
- Drip chamber.
- Y connector with cap.
- ENFit® lock female connector with cap.
- Patient label.
- Silicon insert (optional) 11cm / 13cm / customized.

**ENF05**
- Spoke with cap.
- PVC tube 1.5m / customized.
- Drip chamber.
- Regulator with wheel.
- Feeding connector with cap.

**Specifications**

**Nutrition therapy**

**ISO80369-3**

**Oral syringe**

**Features**
- We can offer both clear and amber syringe.
- Special tip design for wrong route administration prevention.
- Clear dose scale for accurate volume confirmation.
- Amber barrel design for protect light-sensitive drug.
- Tip cap is available.

**ENPLUS spike with cap.**
- PVC tube 1.73m/2.28m / customized.
- Regulator with wheel.
- Drip chamber.
- Y connector with cap.
- ENFit® lock female connector with cap.
- Patient label.
- Silicon insert (optional) 11cm / 13cm / customized.

**ORFS60**
- ENPLUS spike with cap.
- PVC tube 1.73m/2.28m / customized.
- Regulator with wheel.
- Drip chamber.
- Y connector with cap.
- ENFit® lock female connector with cap.
- Patient label.
- Silicon insert (optional) 11cm / 13cm / customized.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Size</th>
<th>Use</th>
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<tbody>
<tr>
<td>Oral tip</td>
<td>1ml</td>
<td>DRS1-01/DRS2-01</td>
</tr>
<tr>
<td>Oral tip</td>
<td>3ml</td>
<td>DRS1-03/DRS2-03</td>
</tr>
<tr>
<td>Oral tip</td>
<td>5ml</td>
<td>DRS1-05/DRS2-05</td>
</tr>
<tr>
<td>Oral tip</td>
<td>10ml</td>
<td>DRS1-10/DRS2-10</td>
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<tr>
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<td>DRS1-20/DRS2-20</td>
</tr>
<tr>
<td>Oral tip</td>
<td>50ml</td>
<td>DRS1-50/DRS2-50</td>
</tr>
</tbody>
</table>

For detail product information go to page 46.

**Irrigation syringe**

**Features**
- Irrigation syringes are designed for simplicity and efficiency of care.
- Irrigation syringes are available sterile or non-sterile to suit your clinical need.
- Includes syringe tip protector.

**URFT60**
- Spoke with cap.
- PVC tube 1.5m / customized.
- Drip chamber.
- Regulator with wheel.
- Drip chamber.
- Feedcap adaptor with Y port.

**URCS60**
- Spoke with cap.
- PVC tube 1.5m / customized.
- Drip chamber.
- Regulator with wheel.
- Drip chamber.
- Feedcap adaptor with Y port.

For detail product information go to page 66.
Specimen collection
Blood collection needle

Blood collection system has advanced the science of specimen collection to help laboratory tests become the foundation for 70% of all medical decisions. Today, the gold standard in sample collection is blood collection family, which most of the hospitals rely on to enhance their sample quality and protect their nurses, phlebotomists and other caregivers from costly accidental needle stick injuries. These products, backed by unrivaled customer support and training, help hospitals every day enhance lab productivity and workflow by reducing retests, recollects and instrument downtime.

- Blood collection needle with scalp vein set, Latex free.
- Soft and transparent tube, can observe the vein blood flow clearly.
- Double wings make puncture more safe.
- Different color wings means different sizes.

- Blood collection needle with hypodermic needle holder, Latex free.

- Pen type blood collection, Latex free.
- Multi-sample needles permit several samples to be taken with a single puncture.
- Sharp & smooth edges make penetration painless, easy connection to rubber stoppers.

---

Specimen collection
Safety blood collection needle

It is used for aspiration of blood, the safety mechanism help to eliminate accidental needle stick injuries.

- Type 1  Scalp vein set type.
- Type 2  Safety needle type.
- Type 3  Pen type.

<table>
<thead>
<tr>
<th>Size (OD/mm)</th>
<th>Color</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.40</td>
<td>27G</td>
<td>Grey BCN27-1</td>
</tr>
<tr>
<td>0.45</td>
<td>26G</td>
<td>Brown BCN26-1</td>
</tr>
<tr>
<td>0.50</td>
<td>25G</td>
<td>Orange BCN25-1</td>
</tr>
<tr>
<td>0.55</td>
<td>24G</td>
<td>Purple BCN24-1</td>
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<tr>
<td>0.60</td>
<td>23G</td>
<td>Blue BCN23-1</td>
</tr>
<tr>
<td>0.70</td>
<td>22G</td>
<td>Black BCN22-1</td>
</tr>
<tr>
<td>0.80</td>
<td>21G</td>
<td>Green BCN21-1</td>
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<td>0.90</td>
<td>20G</td>
<td>Yellow BCN20-1</td>
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<tr>
<td>1.00</td>
<td>19G</td>
<td>Cream BCN19-1</td>
</tr>
<tr>
<td>1.10</td>
<td>18G</td>
<td>Pink BCN18-1</td>
</tr>
</tbody>
</table>

 remar: normal size in above table, we can also make special size as clients’ request.
**Specimen collection**

**Safety blood lancet**

It is used in blood collection sampling, and help eliminate accidental needlestick injuries.

**Product Features**

- Needle is fully shielded before and after use.
- Cannot be reused.
- Sterilized by gamma ray.
- Pre-loaded operating design ensures a good blood sample.
- Ultra sharp tri-bevel needle, high speed penetration.
- Multiple depth selection with color coding.

**Blood collection tube**

We provide a full offering of blood collection tubes in both glass and plastic.

Blood collection tubes include silicone coated tubes that indicate the interior surface of the blood collection tube has been coated with a water-soluble silicone material.

<table>
<thead>
<tr>
<th>Code</th>
<th>Type</th>
<th>Code</th>
<th>Type</th>
<th>Volume</th>
<th>Size</th>
<th>Color</th>
<th>Additive</th>
<th>Application</th>
<th>Code</th>
<th>Type</th>
<th>Code</th>
<th>Type</th>
<th>Volume</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>Plain</td>
<td>SBL01-28</td>
<td>SBL02-28</td>
<td>3ml</td>
<td>13×75</td>
<td>Green</td>
<td>Heparin</td>
<td>Seruim biochemistry</td>
<td>BCT01</td>
<td>Glass</td>
<td>BCT02</td>
<td>Plastic</td>
<td>2ml</td>
<td>13×75</td>
</tr>
<tr>
<td>Red</td>
<td>Coagulant</td>
<td>SBL01-26</td>
<td>SBL02-26</td>
<td>3ml</td>
<td>13×75</td>
<td>Purple</td>
<td>EDTA-K2, EDTA-K3, EDTA-Na2</td>
<td>BCT03</td>
<td>Glass</td>
<td>BCT04</td>
<td>Plastic</td>
<td>2ml</td>
<td>13×75</td>
<td></td>
</tr>
<tr>
<td>Yellow</td>
<td>Separating gel</td>
<td>SBL01-21</td>
<td>SBL02-21</td>
<td>7ml</td>
<td>13×100</td>
<td>Black</td>
<td>3.8% Sodium Citrate</td>
<td>BCT05</td>
<td>Glass</td>
<td>BCT06</td>
<td>Plastic</td>
<td>2ml</td>
<td>13×75</td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>Sodium</td>
<td>SBL01-18</td>
<td>SBL02-18</td>
<td>5ml</td>
<td>13×100</td>
<td>Blue</td>
<td>3.8% Sodium Citrate</td>
<td>BCT07</td>
<td>Glass</td>
<td>BCT08</td>
<td>Plastic</td>
<td>2ml</td>
<td>13×75</td>
<td></td>
</tr>
</tbody>
</table>

New item, less pain
- Diabetes clinics/hospital wards for blood glucose monitoring
- Haemoglobin, cholesterol blood typing, coagulation, blood gas and other diagnostic tests for pediatrics and normal adult skin
- Special baby care and maternity units for heel puncture neonates and preemie

---

<table>
<thead>
<tr>
<th>Type</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass blood collection tube</td>
<td>BCT01</td>
</tr>
<tr>
<td>Plastic blood collection tube</td>
<td>BCT02</td>
</tr>
<tr>
<td>Microcollection tube</td>
<td>BCT03</td>
</tr>
<tr>
<td>Non-vacuum blood collection tube</td>
<td>BCT04</td>
</tr>
</tbody>
</table>
Subdural, lower thorax and lumbar spinal puncture.

**Features**
- Full sizes of anesthesia needles.
- Identified as spinal needle bevel, quincke tip, pencil point tip and epidural needle.
- 304 stainless steel needle tubes and styllets.
- International colour coding.
- With mounted introducer needle.
- Luer lock hub.

**Components**
- Epidural catheter, Size: OD: $\phi 1.0$, OD: $\phi 0.8$, Length: 850mm.
- Epidural filter: 0.22μm with hydrophobic membrane luer lock.
- LOR syringe: 5ml, 7ml, 10ml.
- Catheter adaptor: TBA, secure the catheter completely.
- Optional: Epidural kit, spinal kit and combined kit available.
- Catheter with /without metal wire available.
- Precision filter 0.2-5μm available.
- Double layer UV filter 0.2-5μm are available.
- Any customization components.

**Features**
- Trauma-free QUINCKE short tip to ensure immediate injection point closure and reduced CSF loss.
- Differentiated angle coupling of needle and obturator tip to avoid production and movement of tissue fragments, improving operator sensitivity.

**Components**
- Epidural catheter, Size: OD: $\phi 1.0$, OD: $\phi 0.8$, Length: 850mm.
- Epidural filter: 0.22μm with hydrophobic membrane luer lock.
- LOR syringe: 5ml, 7ml, 10ml.
- Catheter adaptor: TBA, secure the catheter completely.

**Optional**
- Epidural kit, spinal kit and combined kit available.
- Catheter with /without metal wire available.
- Precision filter 0.2-5μm available.
- Double layer UV filter 0.2-5μm are available.
- Any customization components.
Anesthesia & pain management

**High pressure manifold**
Maximize fluid flow control and fluid and drug delivery efficiency. Use two and three port normally closed valve manifolds for maximum fluid and drug delivery efficiency in the Operating Room. Confidently maintain drug dosing integrity when administering multiple drugs with back check valves in each port.

**NRFit™ syringe**
It is used for regional anesthesia, the new patient safety initiative neuraxial products with NRFit™ connectors according to American Society of Anesthesiologists (ASA) meeting, Oct. 22-26 in Chicago 2016. All healthcare facilities are expected to begin converting to meet the ISO standard requiring NRFit connectors for neuraxial use. Healthcare facilities has already taken legislative action by mandating that convert to these new standardized epidural products by Jan. 1, 2017.

**Features**
- No leakage under 500psi.
- Smooth rotation, easy use.
- Different color for choice.
- DEHP-free. Latex-free.

**Gravity blood administration sets**
Filtration for various blood IV administration needs.

**Features**
- Sharp spike is easy to puncture.
- Plastic spike/metallic spike available.
- Ventilated with hydrophobic bacterial filter.
- The ISO standard spike can fit with any blood bags.
- Soft and transparent chamber.
- Extra soft & kink resistant tubes.
- Acute roller clamp.
- With 200micron filtration.
- Latex free.
- Straight and Y type are available.
- DEHP free tube is available.

**Code**

<table>
<thead>
<tr>
<th>Code</th>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRS3</td>
<td>3ml</td>
<td>NRFit™ connector</td>
</tr>
<tr>
<td>NRS5</td>
<td>5ml</td>
<td>NRFit™ connector</td>
</tr>
<tr>
<td>NRS10</td>
<td>10ml</td>
<td>NRFit™ connector</td>
</tr>
<tr>
<td>NRS20</td>
<td>20ml</td>
<td>NRFit™ connector</td>
</tr>
</tbody>
</table>
Blood bag

It is used to collect and preserve whole human blood and blood components in hospital or blood bank.

Features

- Our blood bag could not only guarantee high quality of the blood components but also to provide maximum safety during blood donation and sample collection.
- The safety needle shield enhances safety against the accidental needle stick injury that can transmit HIV, Hepatitis B and C and other blood borne diseases.
- Closed system & reusable blood sampling with vacuum tube.
- Label material with pre-cutting line and could not be tear integrated.

BB01/Single
Single blood bag is used for collection of whole human blood. It consists of one bag containing anticoagulant solution CPDA.

BB02/Double
Double bag system consists of one primary bag containing anticoagulant solution CPD/CPDA and one empty satellite bag, for separation of half plasma.

BB03/Triple
Triple bag system consists of one primary bag containing anticoagulant solution CPD/CPDA, one satellite bag containing SAGM preservation solution, and one empty satellite bag. This additive can maintain red blood cell viability, with over 80% of survival rate after 5 weeks of storage.

BB04/Quadruple
Quadruple bag system consists of one primary bag containing anticoagulant solution CPD/CPDA, one satellite bag containing SAGM preservation solution, and two empty satellite bags. The additive SAGM can maintain red blood cell viability, with over 80% of survival rate after 5 weeks of storage.

Cord blood bag

It is designed to collect the umbilical cord blood (also known as placental blood) after the birth of the baby, within the shortest time and minimal risk of contamination. The clinical use of the cord blood is allergenic transplantation in patients suffering from severe blood diseases such as leukemia, lymphoma, etc.

BB03/Triple

PALL leukocyte filtration system.
Blood sampling with vacuum tube.
Customization bags.
Urinary drainage bags are intended to collect urine from sheaths or catheters. It provides solutions to help improve patient safety and infection prevention in urinary care.

**Features**
- Anti-reflux drip chamber on the bag helps prevent urine reflux.
- With airvent and non-return valve
- Varies choice of components: universal hanger, bed sheet clamp, dog house, needless samples port.
- High grade PVC.
- Latex free.
- Tyvek pouch for O.R. pack or PE packing.

- Rectangle or arc style for customer option.
- It is secured with two comport straps in latex free, they have a twist drainage outlet or flip flow valve for easy emptying.
- T-tap outlet or twist outlet for one hand easy emptying.
- With white fabric for comfort skin touch.
- Tube length 30-90cm for customer option.

- Rectangle shape
  - 2000ml
- Apple shape
  - 2000ml
- Diamond shape
  - 2000ml

**Urinary meter**

**Features**
- Designed for easy bag suspension with a reinforced double hanger and built-in anti-back guide.
- Convenient needleless sample port is accessible with either needleless or blunt cannula, and offers added protection for patient and caregiver.
- Adjustable bed sheet clamp secures tubing.
- Include additional rope hanger.

**Code**  **Spec.**
- UB500  500ml
- UB600  600ml
- UB750  750ml
- UB900  900ml
- UB1000 1000ml

**Remark**: 200ml-500ml capacity meter is available.
Irrigation tray

Irrigation tray is designed to improve simplicity and efficiency of care.

## Components

<table>
<thead>
<tr>
<th>Qty</th>
<th>Description</th>
<th>Qty</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1ea</td>
<td>1000ml collection tray</td>
<td>2ea</td>
<td>Alcohol prep pad</td>
</tr>
<tr>
<td>1ea</td>
<td>500 ml graduated container</td>
<td>1ea</td>
<td>Moisture-proof under pad 45x45cm</td>
</tr>
<tr>
<td>1ea</td>
<td>60ml bulb or thumb control ring syringe</td>
<td>2pr</td>
<td>Vinyl gloves</td>
</tr>
<tr>
<td>1ea</td>
<td>Protector cap</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Features

- Flexible soft bulb promotes one-handed administration.
- Designed to stand on the bulb end to help minimize contamination.
- Patient label provides convenient patient documentation.
- Sterile, Latex free, DEHP free, and BPA free.
- Includes syringe protector cap.

## Bulb syringe

- Precision crafted O-ring plunger ensures a positive seal.
- Visible dosing marks designed for ease of use.
- Latex free, DEHP free, and BPA free.
- Includes syringe luer tip adapter and protector cap.

## Thumb control ring syringe

- Thumb control ring top allows for maximum control and one-handed administration.
- Precision crafted O-ring plunger ensures a positive seal.
- Re-sealable pole bag designed for safe and convenient storage.
- Patient label provides convenient patient documentation.
- Sterile, Latex free, DEHP free, and BPA free.
- Includes syringe tip adapter and protector cap.

## Flat top piston syringe

- Precision crafted O-ring plunger ensures a positive seal.
- Visible dosing marks designed for ease of use.
- Latex free, DEHP free, and BPA free.
- Includes syringe luer tip adapter and protector cap.
Renal therapy

Fistula needle

We offer innovative, high performance products and services for use in dialysis. The core of the Renal Therapies spectrum provides a basis which targets improved clinical outcomes for the patient, while minimizing costs and risks for the healthcare providers.

Features

- Fixed and rotary wings are available.
- Japanese made sharp needle proves to be high quality.
- The large oval orifice on the needle back.
- Unique design and smooth finish.
- Super silicon coating of inner and outer needle wall to ease of penetration and minimize the pain.
- The spiral connector fits perfectly with dialysis line.

Safety fistula needle

It is used for kidney disease patients to purify the blood, the safety mechanism help to eliminate accidental needle stick injuries.

Blood line

Features

- More than 500 types can fit with Fresenius, Cambro, B Braun, Nipro, Baxter hemodialysis machine.
- Luer type is tight with the adapter of fistula needle.
- Different clamps fit for tubes of different diameter.
- Fixed connector with the wing is easy to join the adapter of hemodialysis machine.
- Customization model are possible upon the requirements.

Hemodialysis care kit

<table>
<thead>
<tr>
<th>Code</th>
<th>Gauge</th>
<th>Size, length and color</th>
<th>Description</th>
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<table>
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<th>Code</th>
<th>Gauge</th>
<th>Size, length and color</th>
<th>Description</th>
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<table>
<thead>
<tr>
<th>Qty</th>
<th>Description</th>
<th>Qty</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Before compartment</td>
<td></td>
<td>After compartment</td>
</tr>
<tr>
<td>1ea</td>
<td>Surgical drape 65×45cm</td>
<td>1ea</td>
<td>Surgical drape 65×45cm</td>
</tr>
<tr>
<td>1pr</td>
<td>Examination glove</td>
<td>1pr</td>
<td>Examination glove</td>
</tr>
<tr>
<td>5ea</td>
<td>Gauze ball plain type 4&quot;×4&quot;</td>
<td>2ea</td>
<td>Gauze ball plain type 4&quot;×4&quot;</td>
</tr>
<tr>
<td>1ea</td>
<td>Alcohol swab</td>
<td>1ea</td>
<td>Alcohol swab</td>
</tr>
<tr>
<td>2ea</td>
<td>Adhesive non-woven dressing with open cut in &quot;U&quot; shape</td>
<td>2ea</td>
<td>Adhesive non-woven dressing for stabilizing the A-V lines</td>
</tr>
<tr>
<td>4ea</td>
<td>Gauze swab 7×7cm</td>
<td>2ea</td>
<td>Surgical dressing in size 5×8cm</td>
</tr>
<tr>
<td></td>
<td>Plastic band 60cm</td>
<td></td>
<td>Plastic band 60cm</td>
</tr>
</tbody>
</table>
Diabetes care

Safety insulin syringe

Safety insulin syringes with integrated needle. The innovative safety insulin syringe offers comfort and easy insulin therapy injection. And help eliminate accidental needle stick injury.

Features

- No gap design guaranteed the complete injection without dead space.
- Premium needle quality and silicon-coated to ease skin penetration and minimize pain.
- Convenient to use, safety mechanism will be activated when the intended dose has been delivered.
- Pull back the plunger after injection, the locking ring secures the needle in the barrel of the syringe preventing the reuse of syringes.
- Special design can prevent the needle back into the barrel occasionally.
- Visual confirmation of safety activation.
- Various range of syringes to meet the clinical requirements.

Insulin syringe

Syringes for subcutaneous insulin therapy injection.

Features

- Premium needle quality and silicon-coated to ease skin penetration and minimize pain.
- High transparency barrel with clearly readable graduated scale for better dose precision.
- No-dead-space.

Using step

- Peel open the package and take out the syringe, ready for use.
- Extract the medication and pull up the safety cartridge to protect the needle, keep them at the surgical tray and ready for injection.
- Pull back the safety cartridge and inject the drug medication by pushing the plunger.
- After the injection, pull up the safety cartridge again to cover the needle tip to avoid the injury risk.
- Rotating the safety cartridge until final locked with an audible “click” which activating the ultimate safety mechanism.
- Dispose the syringe in trash bin.

<table>
<thead>
<tr>
<th>Code</th>
<th>Unit</th>
<th>Size</th>
<th>Needle size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISS1-03</td>
<td>U-100</td>
<td>0.3ml</td>
<td>25-33G×5/16”-1/2”</td>
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<tr>
<td>ISS1-05</td>
<td>U-400 U-1000</td>
<td>0.5ml</td>
<td>25-33G×5/16”-1/2”</td>
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<tr>
<td>ISS1-10</td>
<td>U-400 U-1000</td>
<td>1ml</td>
<td>25-33G×5/16”-1/2”</td>
</tr>
</tbody>
</table>

Needle sizes according to customer’s requests

Safety insulin syringe

Features

- The innovative engineered safety mechanism to potentially reduce the risk of needle stick injury.
- By pull the safety cartridge to withdraw the needle into cartridge after injection.
- Easy to lock by rotating the safety cartridge.
- Low dead space minimizes medication waste.
- Triple sharpened needle guaranteed the sharpness.
- Clear graduation to guarantee the accuracy in small dose injection.

<table>
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<th>Size</th>
<th>Needle size</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS03 U-100</td>
<td>0.3ml</td>
<td>25-33G×5/16”-1/2”</td>
</tr>
<tr>
<td>IS05 U-400 U-1000</td>
<td>0.5ml</td>
<td>25-33G×5/16”-1/2”</td>
</tr>
<tr>
<td>IS10 U-400 U-1000</td>
<td>1ml</td>
<td>25-33G×5/16”-1/2”</td>
</tr>
</tbody>
</table>
**Diabetes care**

**Safety insulin pen needle**

Compatible with all pen injectors, help eliminate accidental needle stick injury.

**Features**
- Automatically achieve the function of protecting needle tip after use.
- Obvious observation of use status.
- Easy self-disable set.
- Easy to see the droplets.

**Insulin pen needle**

International standard luer lock connector is easy and safe for operation

- Triple sharpened needle.
- Thin wall technology ensures optimal insulin flow.
- Premium needle quality and silicon-coated to ease skin penetration and minimize pain.
- Cartridge tip is anti-friction treated for easy, fragment-free cartridge puncture, preventing insulin contamination.
- Compatible with all pen injectors.

- NovoPen 4
- NovoPen Junior®
- NovoRapidFleXpen®
- BD:Puregon Pen®
- Sanofi: Aventis Lantus®
- Sanofi: Optipen Pro 1®
- Sanofi: TactiPen®
- Owen Mumford: AutoPen®
- Owen Mumford: AutoPen 2®
- Lily: HumaPen®

- Extra short needle length 5mm, 38% shorter than 8mm needle to guarantee the sufficient of insulin delivery and greater injection comfort.

<table>
<thead>
<tr>
<th>Code</th>
<th>Spec.</th>
</tr>
</thead>
<tbody>
<tr>
<td>INC02</td>
<td>0.2L</td>
</tr>
<tr>
<td>INC005</td>
<td>0.05L</td>
</tr>
</tbody>
</table>

**Alcohol swab**

Contain 70% isopropyl alcohol for optimum antibacterial action.

**Features**
- Are thicker and softer than many other swabs, helping ensure reliable site preparation for safe, hygienic insulin injections. They are also appropriate for other household uses.
- Individually foil wrapped in four layers.
- Provide an airtight seal that prevents leakage and drying.

<table>
<thead>
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<tbody>
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<td>NC-02</td>
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</table>