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大正医疗

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山东大正医疗器械股份有限公司
SHANDONG GREED MEDIC CO.,LTD.

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COMPANY PROFILE

Shandong Gred Medic Co., Ltd. was founded in 1995 and located in a beautiful coastal city – Weihai, Shandong. With registered capital of 37 million Yuan and total assets of more than 100 million Yuan, the company occupies a land of more than 40,000 square meters. It has more than 4000 square meters of Grade 100,000 GMP standard cleaning room and more than 240 employees which including more than 60 senior technicians. Gred Medic is a high-tech company specializing in scientific research, production and sales service.

The company's business scope covers different clinical departments such as Neurosurgery, Obstetrics&Gynecology, ICU etc. The main products include neurosurgery drainage devices and intracranial pressure monitoring equipment and supplies, newborn care series products for obstetrics and gynecology department, as well as interventional series products for ICU. The products have been sold to more than 30 provinces, cities and autonomous regions nationwide, and the company has more than 1,900 channel distributors and more than 4,500 end clients.

The company has the solid technology R&D strength and product innovation advantages. It owns the Provincial Technical Center and Weihai City Engineering Technical R&D Center for neurosurgery devices. With over 20 years' experience of technology R&D as well as clinical practices, the company developed more than 30 patents independently, and participated in preparation of industry standard making for External Drainage Collection Device for Cranial Puncture, External Drainage Collection Device for Lumbar Puncture Cerebrospinal Fluid, Cranial External Drainage Catheter and some other industry standards. The continuous external drainage system for lumbar cistern filled the gap in the domestic market; the Disposable EVD Device was elected as the recommended product for use by the National "Twelfth Five-year Plan" Science and Technology Program Research Group. The market share of newborn care series of products has been ranked top in China for consecutive years.

Based on the quality policy of "Legitimate Operation and Considering Quality as Our Life, Maintaining Effective and Customer-Focused", the company passed ISO13485 Quality System Certification and ISO9001 Quality System Certification and implemented the modern production and management strictly in accordance with the requirements of the quality management system.

The company was listed in NEEQ Stock Market in January 2014, and now is moving toward a broader field of medical technology.

The life is cared by the science and technology and the dream is protected by the health. Focusing on science, technology and innovation

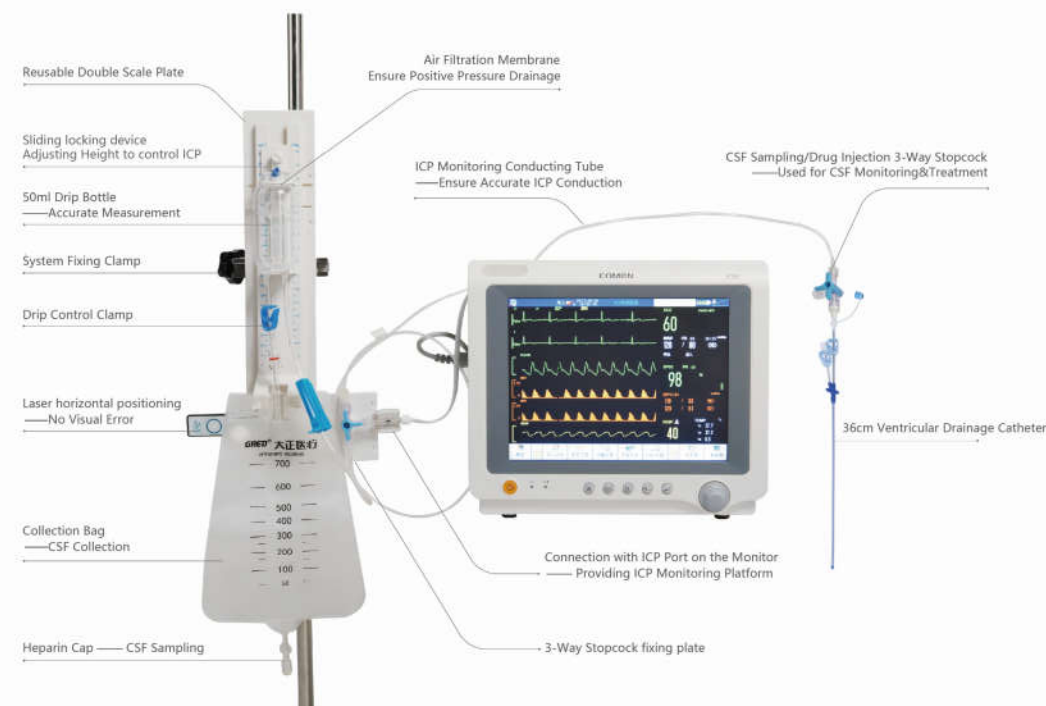


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ICP Monitoring & External Ventricular Drainage Catheter Device

The only SFDA Class III certificate in China which fill the gap in the domestic



ICP Measurement “Gold Standard”

The significance of ICP Monitoring:

1. ICP monitoring is prior to symptoms, signs and imaging findings of ICP changes, able to intervention in the earliest time to improve the treatment effect.
2. ICP Continuous Monitoring is what CT Inspection can not.
3. Strongly recommend that patients with acute severe craniocerebral.
4. ICP monitoring can detect intracranial diffuse diseases in advance, guide treatment and evaluate prognosis.
5. Guidelines for intracranial trauma consistently recommend using ICP monitoring.
6. ICP monitoring is the most rapid, objective and accurate method for the diagnosis of intracranial hypertension. It is also an important means to observe the patient's condition changes, early diagnosis, determine the operation opportunity, guide clinical drug treatment, judge and improve the prognosis.

Scope of Application:

For adult patients with craniocerebral trauma, subarachnoid hemorrhage and intracerebral hematoma, external ventricular drainage and intracranial pressure continuously monitoring.

Product Characteristics:

1. Intraventricular catheterization is more accurate than other parts of the pressure measurement, which is recognized as the “gold standard” of ICP measurement.
2. Drainage of cerebrospinal fluid and other hematoma drainage can be performed to control intracranial pressure.
3. Equipped with multi-parameter monitor, drainage and monitoring at the same time. Multiple vital signs could be shown, intracranial pressure of 2 patients could be monitored at the same time, and the monitoring won't affect drainage.
4. After implantation, the pressure measurement can be calibrated continuously without zero drift. Can be measured repeatedly and continuously.
5. Can also be intrathecal administration, such as antibiotics in the treatment of ventriculitis.

External Drainage System-EVD System (A+C)

The only SFDA Class III certificate in China which fill the gap in the domestic



Components:

Silicone Catheter, Guide Steel Needle, Cranial Pressure Regulating Bottle, Subcutaneous Needle, Three-Way Stopcock, Drainage Bag, Flow Regulator

Scope of Application:

It is suitable for minimally invasive hematoma removal of cerebral hemorrhage, external ventricular drainage before, during or after craniocerebral surgery, external ventricular drainage for obstructive hydrocephalus and unknown hydrocephalus, and liquid drainage for hematoma, abscess and cyst in various parts of the brain.

Model	Specification
Single Lumen	F8, F10, F12, F14, F16, F18, F25
Double Lumen	F10, F12, F14

NO.1 Brand for EVD and ICP Monitoring in China

Product Characteristics:

Safe and Reliable

The front end of the drainage tube is a spherical crown type blind end design with groove inside, which can reduce brain damage during puncture and avoid guiding steel needle from passing through the side hole. It is designed to prevent the side hole from blocking.



Multiple choices

Imported silicone catheter, complete specifications. It can meet all kinds of clinical drainage needs.

Single & Double Lumen Design Catheter

Single lumen catheter can be used for subcutaneous ambulation to prevent infection. Double lumen catheter has separate channel for drainage and injection, which is convenient for drug injection and can be used for hematoma flushing.



Precise Localization

The catheter has accurate scale and barium line, no artifact under X-ray.

Patented Design, Safer Drainage

The unique and patented intracranial pressure regulating bottle has a unique built-in integrated U-tube and air filter to cover and dustproof, anti-reflux and prevent infection. The patented drainage bag is equipped with anti-reflux device and hydrophobic filter membrane.

Convenient for Clinical Operation

Equipped with large diameter three-way stopcock, multi-way selection.

External Drainage System-EVD System (A+C+D)

The only SFDA Class III certificate in China which fill the gap in the domestic



Components:

Silicone Catheter, Guide Steel Needle, Cranial Pressure Regulating Bottle, Scale Plate for Accurate Measurement of ICP, Subcutaneous Needle, Three-Way Stopcock, Drainage Bag, Flow Regulator

Scope of Application:

It is suitable for minimally invasive hematoma removal of cerebral hemorrhage, external ventricular drainage before, during or after craniocerebral surgery, external ventricular drainage for obstructive hydrocephalus and unknown hydrocephalus, and liquid drainage for hematoma, abscess and cyst in various parts of the brain.

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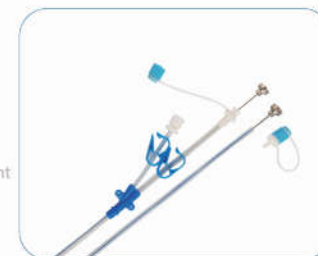
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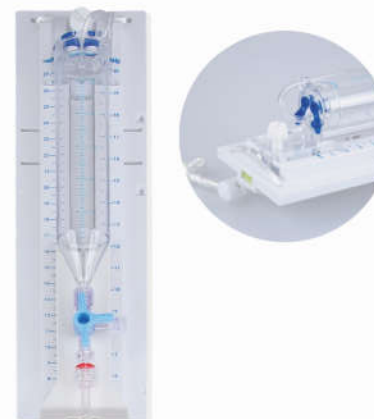
The catheter has accurate scale and barium line, no artifact under X-ray.

Precision & Accurate

Conical adjustment bottle equipped with double air filtration membrane - can accurately measure the flow of liquid and prevent blockage. Patent design, ensure the accuracy of intracranial pressure measurement, double scale plate with adjusting bottle locking device, level bubble at the upper end, equipped with laser pen and fixing clip.

Anti-reflux & Safer Drainage

The drainage bag is equipped with anti-reflux device and hydrophobic filter membrane.



External Drainage System-Lumbar Drainage System (B+C)

The only SFDA Class III certificate in China which fill the gap in the domestic



Scope of Application:

Subarachnoid Hemorrhage, Cerebrospinal Fluid Leakage, Encephalocele, Hydrocephalus, Intracranial Infection, Microsurgery of Intracranial Lesions, Continuous lumbar drainage experiment for idiopathic hydrocephalus performing preoperative evaluation. Reduce intracranial pressure quickly and increase the operation visual field exposure.

Model	Specification
F5	Pipe Catheter
F5	Pipe Catheter(Built-in Guide Wire)
F6	Guide Wire Catheter

Product Characteristics:

1. Excellent drainage tube technology, better biocompatibility, complete specifications; catheter length is better than other similar products.
2. Patented steel needle locking joint with tight connection and anti-shedding.
3. Exquisite oval bottle, equipped with air filter membrane, unique built-in integrated U-tube design, anti-reflux and anti infection.
4. The drainage bag is equipped with hydrophobic air filtration membrane and anti-reflux device to make drainage safer.
5. Equipped with imported large diameter three-way valve, which is convenient for washing, sample retention and drug injection.
6. Optional lumbar puncture kit, convenient for clinical operation.



NO.1 Brand for EVD and ICP Monitoring in China

Configuration:

Built-in Guide Wire Characteristics:

There is a guide wire in the catheter, so the catheter placement is more smooth and fast. The connection is firm and convenient to avoid pipe falling off and clamping.



Pipe Catheter Characteristics:

The catheter can be inserted directly through the puncture needle which is easy to operate and fast. The drainage tube is lengthened and can be pulled out from the patient's neck to facilitate turning over and moving.



Guide Wire Catheter Characteristics:

The guide wire makes catheter insertion more smoothly, the catheter diameter is 1.68mm which is large to reduce obstruction. The inner diameter of the puncture needle and the outer diameter of the catheter do not leak or fall off.

External Drainage System-Lumbar Drainage System (B+C+D)

The only SFDA Class III certificate in China which fill the gap in the domestic



Scope of Application:

Subarachnoid Hemorrhage, Cerebrospinal Fluid Leakage, Encephalocele, Hydrocephalus, Intracranial Infection, Microsurgery of Intracranial Lesions, Continuous lumbar drainage experiment for idiopathic hydrocephalus performing preoperative evaluation. Reduce intracranial pressure quickly and increase the operation visual field exposure.

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F5	Pipe Catheter
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Product Characteristics:

1. Excellent drainage tube technology, better biocompatibility, complete specifications; catheter length is better than other similar products.
2. Patented steel needle locking joint with tight connection and anti-shedding.
3. Conical adjustment bottle equipped with double air filtration membrane can accurately measure the flow of liquid and prevent blockage.



4. Patent design double scale plate with adjusting bottle locking device, level bubble at the upper end, equipped with laser pen and fixing clip.
5. The drainage bag is equipped with hydrophobic air filtration membrane and anti-reflux device to make drainage safer.
6. Optional lumbar puncture bag, convenient for clinical operation.



NO.1 Brand for EVD and ICP Monitoring in China

Configuration:

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There is a guide wire in the catheter, so the catheter placement is more smooth and fast. The connection is firm and convenient to avoid pipe falling off and clamping.



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Guide Wire Catheter Characteristics:

The guide wire makes catheter insertion more smoothly, the catheter diameter is 1.68mm which is large to reduce obstruction. The inner diameter of the puncture needle and the outer diameter of the catheter do not leak or fall off.

Disposable EVD Device

Industry Standard Guiding Brand



Components:

Silicone Catheter, Guide Steel Needle, Cranial Pressure Regulating Bottle, Three-Way Stopcock, Heparin Cap, Drainage Bag, Flow Regulator, Stop Valve.

Scope of Application:

It is suitable for patients who need external ventricular drainage due to intracranial hypertension caused by cerebrospinal fluid and cerebral hemorrhage.



Patented Design, Safer Drainage

The unique and patented intracranial pressure regulating bottle has a unique built-in integrated U-tube and air filter to cover and dustproof, anti-reflux and prevent infection.

Convenient for Clinical Operation

Equipped with large diameter three-way stopcock, multi-way selection.



Drilling Instruments Set can be used.

Product Characteristics:

Safe and Reliable

The front end of the drainage tube is a spherical crown type blind end design with groove inside, which can reduce brain damage puncture and avoid guiding steel needle from passing through the side hole. It is designed to prevent the side hole from blocking.

Multiple Choices

Imported silicone catheter, complete specifications. It can meet all kinds of clinical drainage needs.

Precise Localization

The catheter has accurate scale and barium line, no artifact under X-ray.



Disposable Surgery Wound Drainage Device

The key to healing is good drainage



Product Characteristics:

1. Imported silicone drainage tube, tensile resistance and good histocompatibility, can be developed under X-ray, clearly show the accurate location of the drainage tube.
2. The flat drainage tube, porous and flat, maximizes the drainage surface and makes the drainage faster and thorough. The three protruding trabeculae in the lumen play an anti-clipping role and make the drainage more unobstructed.
3. Cross drainage tube, cross bracket structure, strong supporting force, prevent clamping. Multi-groove drainage channel, no obstruction, drainage more unobstructed.
4. The subcutaneous traction needle can pierce the drainage tube through the subcutaneous tunnel to keep the drainage away from the surgical wound, avoid wound infection, and make the drainage more unobvious.
5. Elastic drainage ball, special anti-reflux device, to prevent the wound infection caused by the retrograde drainage fluid during extrusion.

Scope of Application:

It is suitable for surgical drainage, including general surgery, traumatic orthopedics, neurosurgery, urology, breast surgery, obstetrics and gynecology and hepatobiliary surgery. It can be used for epidural drainage, orthopedic surgery trauma drainage, can also be widely used in breast, thyroid, abdominal surgery and other surgical operations before, during and after the blood, body fluid drainage.

Drainage Tube Model	Specification	Different Configuration
FLAT	14Fr, 16Fr	A: Drainage Ball + Drainage Bag D: Drainage Bag P: Drainage Ball
CROSS	15Fr, 19Fr	A: Drainage Ball + Drainage Bag D: Drainage Bag P: Drainage Ball
ROUND	8Fr, 10Fr, 12Fr, 14Fr, 16Fr, 18Fr, 25Fr	A: Drainage Ball + Drainage Bag D: Drainage Bag P: Drainage Ball

Disposable Sterile CVC Set

New Choice of Deep Venipuncture Catheterization



Product Characteristics:

1. The catheter body material is made of medical polyurethane (TPU), which has good biocompatibility. It can soften automatically when placed in the human body. It can shape according to the shape of blood vessels and effectively protect the vascular tissue from damage.
2. The surface of the tube is smooth, which can protect the inner wall vessels, effectively prevent thrombosis and reduce the resistance of catheterization.
3. The tube body with scale and clear mark is convenient for clinical accurate catheterization.
4. The whole pipe body is impermeable to X-ray, which is convenient for positioning and safe retention.
5. The product configuration is complete and more intimate, and the double-layer protection of core components is safer.

Product Configuration

Puncture Kit

Central Venous Catheter (with stop clip), Puncture Needle (with Y-type connection valve), Guide Wire (with injector); Expansion Tube; Disposable Sterile Syringe; Disposable Sterile Needle.

Auxiliary Kit

Plastic handle scalpel; heparin cap; fixing clip; disinfection brush; small & middle size medical bed sheet; drapes; absorbent cotton gauze; suture needle with thread (medical suture angle needle and non absorption thread); medical rubber gloves; medical transparent film.

Scope of Application:

1. Strive for the rescue opportunity with massive and rapid intravenous transfusion.
2. Establish a good infusion channel for patients receiving repeated infusion.
3. It can be used for monitoring central venous pressure.
4. It is conducive to the input of hypertonic or irritating solution.

Main departments: Anesthesiology, ICU, Oncology, Surgery, Hematology, Emergency Department etc.

Model	Explain	Specification
CVC-1	Single Lumen	20G, 18G, 16G, 14G, 8F
CVC-2	Double Lumen	4F, 5F, 7F, 8F, 11.5F, 12F, 14F
CVC-3	Triple Lumen	4F, 5.5F, 7F, 8.5F, 11.5F, 12F, 14F

Disposable Pressure Transducer

Essential for Invasive pressure monitoring , good sensitivity and stability



Disposable pressure transducer is a kind of invasive venous pressure monitoring system, which has the characteristics of continuous and dynamic monitoring of arterial pressure. It can monitor patients' venous pressure and arterial pressure continuously and real-time monitor systolic blood pressure, diastolic blood pressure and mean arterial pressure, reflect the blood circulation of patients, provide reliable data in time, and let clinicians understand cardiovascular function and master the declared signs of patients.

Product Characteristics:

1. Complete variety, can be used with a variety of monitors at home and abroad, to meet different clinical needs.
2. Suitable for multiple departments: Anesthesia Department, ICU, Emergency Department, Cardiology Department, Catheter Room etc.
3. The quality is stable and the error rate is controlled within 2%.

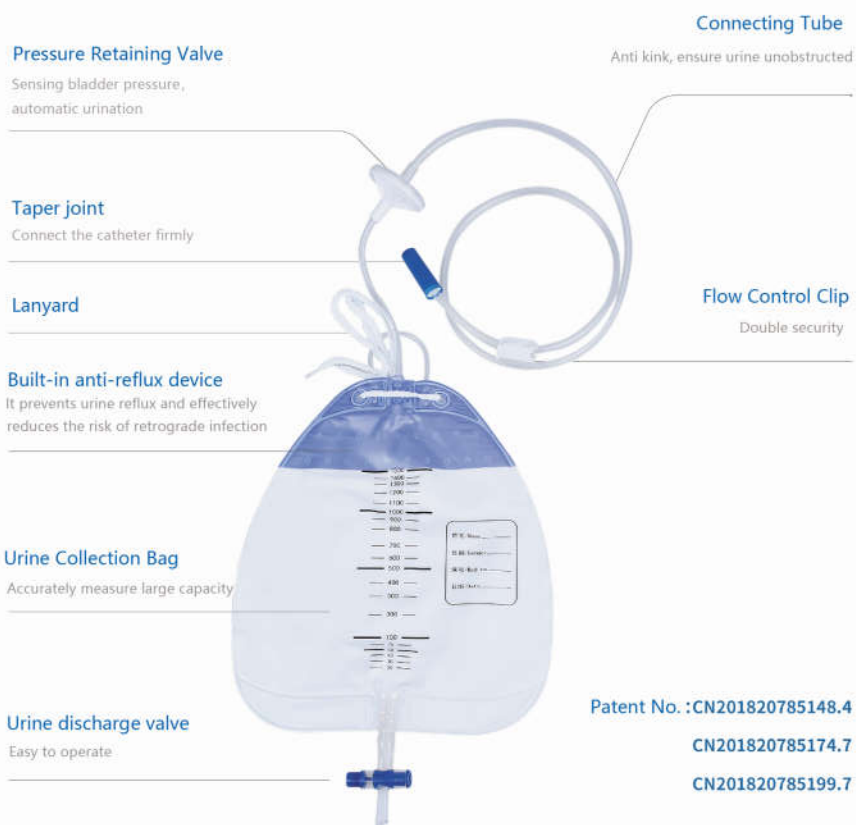
Scope of Application:

1. Critical patients with circulatory insufficiency.
2. Severe hypotension, shock patients.
3. Patients undergoing major surgery under various anesthesia.
4. Patients who need repeated arterial blood sampling.
5. Patients who need vasomotor therapy.

Specification&Model	Single-end Pressure Transducer
	Double-end Pressure Transducer
	Multi-end Pressure Transducer

Disposable Pressure Urine Collection Bag

Automatic pressure control to protect bladder function



Exclusive Creation of New Product Fill the Domestic Gap

Product Characteristics

Exclusive patent, precise and efficient

The unique patent pressure retaining valve can accurately sense the pressure of urine in bladder, and control intermittent urination efficiently and quickly.

Protection of bladder function

Simulation of bladder passive filling and active micturition is conducive to the recovery of bladder reflex micturition function, and can avoid bladder muscle atrophy and bladder volume reduction caused by long-term indwelling catheter patients.

Prevention of reflux and infection

Anti-reflux device is equipped to prevent infection and protect drainage safety of patients.

Improve work efficiency

No need to clamp and open regularly, reduce the workload of medical staff, improve the work efficiency of medical staff, reduce the improper nursing care causing urinary retention and retrograde infection.

Scope of Application:

It is suitable for urethral injury, urinary retention, coma patients and inactive persons to collect urine and protect bladder function, so as to avoid bladder muscle atrophy and volume reduction.



Umbilical Cord Ligature Protective Belt

Scope of Application:

Ligation nursing of newborn after umbilical cord amputation

Components:

Bandage, Gauze Square, Ligation Ring, Cotton Swab, Chitosan Core, Adhesive Button, Flannelette.

Product Characteristics:

1. More than 20 years of clinical verification, reliable quality and high market coverage.
2. Complete configuration to meet different clinical needs.
3. The operation is simple and convenient to improve the working efficiency of nursing staff.
4. Chitosan material can relieve pain, stop bleeding and resist oxidation. Prevent infection and promote absorption.



Umbilical Cord Scissors (With Clip)

Components:

The product is composed of umbilical cord scissors and cushion. The umbilical cord scissors is composed of umbilical cord clip, locking forceps booster, lock clamp seat and cutting blade.

Specification & Model:

Type I, Type II

Product Characteristics:

1. The material of the umbilical clamp is excellent, which is more suitable for the thick stump that is difficult to deal with and could promote the healing.
2. Clamp the umbilical cord stump to close the stump to inhibit bleeding and accelerate the detachment of the umbilical cord stump.

Scope of Application:

Suitable for cutting newborn umbilical cord and sealing the stump of newborn umbilical cord.



Umbilical Paste



Scope of Application:

Umbilical paste is applied to the umbilicus before swimming to prevent the umbilical part from being soaked and infected.



Specification & Model:

Waterproof 6*9

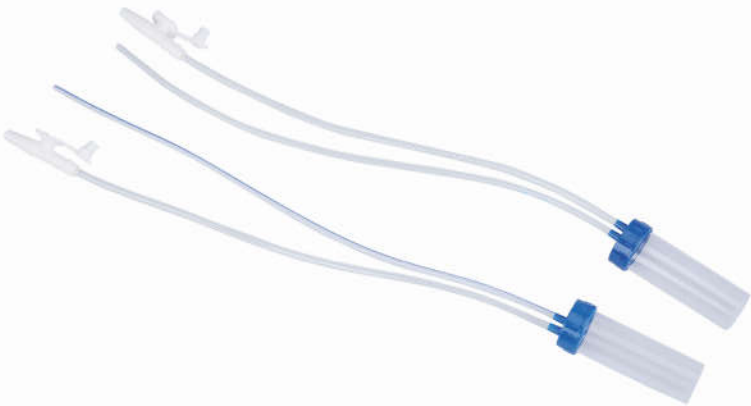
Hospital ID Wristband



Product Characteristics:

Humanized design, adult and children two specifications, red and blue color identification. Soft and comfortable, no irritation, no allergy. The handwriting is firm and not afraid of washing.

Disposable Sputum Aspirator



Scope of Application:

It is suitable for sputum suction in patients' oral cavity.

Product Characteristics:

Sputum Suction Tube

It is soft and elastic, and the front end is polished into a blunt round shape to reduce the irritation to the oral and throat mucosa of newborns.

Storage Bottle

The calibration with 20ml can record the amount of aspirate, and it can also be sent for inspection directly, which is very convenient.

Negative Pressure Connector

Negative pressure regulating hole can be used to adjust suction to prevent excessive suction from damaging oral mucosa of infants.

Specification	Material of Sputum
Type I	PVC
Type II	Silicone



Disposable Puncture Kit

Product Characteristics:

1. Equipped with L-type pressure measuring tube, convenient to measure intracranial pressure.
2. Equipped with test tube, convenient for clinical sample retention and examination.
3. One-off use to prevent cross infection.
4. Complete set, convenient for clinical operation.



Components:

L-type Pressure Measuring Tube	1	Gloves	1
Puncture Needle	Adult 9# or Child 7#	Towel	1
Injectors	2	Drape	1
Tubes	4	Gauze	2

Adhesive Wound Dressing

Product Characteristics:

1. Strong hygroscopicity, can keep the wound dry.
2. Prevent adhesion and reduce the pain of changing dressing.
3. Easy to use.

Specification & Model:

6*7cm	10*25cm
9*10cm	10*30cm
9*15cm	10*35cm
10*20cm	10*40cm

