

China Biologic Products Holdings, Inc.-Product Introduction

Our principal plasma products are our approved human albumin and IVIG products. Human albumin is principally used to treat critically ill patients by replacing lost fluid and maintaining adequate blood volume and pressure. IVIG products are primarily used to enhance specific immunity, a defense mechanism by which the human body generates certain immunoglobulin, or antibodies, against invasion by potentially dangerous substances. In a situation where the human body cannot effectively react to these foreign substances, injection of IVIG products can provide sufficient antibodies to neutralize such substances. We also have one chemical drug, placenta polypeptide. In addition, on January 1, 2018, we acquired 80% equity interest in TianXinFu, a medical device company primarily engaging in manufacturing and sale of regenerative medical biomaterial products.

All of the plasma products and the main category of other products that we are currently approved to produce are listed in the table below. All of our approved plasma products and the placenta polypeptide products are prescription medicines administered in the form of injections.

Approved Products⁽¹⁾⁽²⁾	Treatment/Use
Human albumin <i>20%/10ml, 20%/25ml, 20%/50ml, 10%/100ml, 10%/20ml, 10%/50ml, 25%/50ml and 20%/50ml (10g, from factor IV)</i>	Shock caused by blood loss trauma or burn; raised intracranial pressure caused by hydrocephalus or trauma; oedema or ascites caused by hepatocirrhosis and nephropathy; prevention and treatment of low-density- lipoproteinemia; and neonatal hyperbilirubinemia.
Human immunoglobulin <i>10%/3ml and 10%/1.5ml</i>	Original immunoglobulin deficiency, such as X chain low immunoglobulin, familiar variable immune deficiency, immunoglobulin G secondary deficiency; secondary immunoglobulin deficiency, such as severe infection, newborn sepsis; and auto-immune deficiency diseases, such as original thrombocytopenia purpura or Kawasaki disease.
IVIG <i>5%/25ml, 5%/50ml, 5%/100ml and 5%/200ml</i>	Same as above.
Human hepatitis B immunoglobulin <i>100 IU, 200IU and 400IU</i>	Prevention of measles and contagious hepatitis. When applied together with antibiotics, its curative effect on certain severe bacteria or virus infection may be improved.

Human rabies immunoglobulin <i>100IU, 200IU and 500IU</i>	Mainly for passive immunity from bites or claws by rabies or other infected animals. All patients suspected of being exposed to rabies are treated with a combined dose of rabies vaccine and human rabies immunoglobulin.
Human tetanus immunoglobulin <i>250IU</i>	Mainly used for the prevention and therapy of tetanus. Particularly applied to patients who have allergic reactions to tetanus antitoxin. ⁽³⁾
Placenta polypeptide <i>4ml/vial</i>	Treatment for cell immunity deficiency diseases, viral infection and leucopenia caused by various reasons, and assist in postoperative healing.
Factor VIII <i>200IU and 300IU</i>	Treatment for coagulopathies such as hemophilia A and increased concentration of coagulation factor VIII.
Human prothrombin complex concentrate (or PCC) <i>300IU</i>	Treatment for congenital and acquired clotting factor II, VII, IX, X deficiency, such as Hemophilia B, excessive anticoagulant, and vitamin K deficiency, etc.
Human fibrinogen <i>0.5g</i>	Treatment for lack of fibrinogen and increase human fibrinogen concentration.
Artificial dura mater	Dura substitutes are used when the patients' dura cannot be sutured satisfactorily and watertight closure is difficult to achieve.

(1) “%” represents the degree of dosage concentration for the product and each product has its own dosage requirement. For example, human albumin 20%/10ml means 2g of human albumin is contained in each 10ml packaging and human immunoglobulin 10%/3ml means 300mg of human immunoglobulin is contained in each 3ml packaging. Under PRC law, each variation in the packaging, dosage and concentration of medical products requires separate registration and approval by NMPA before it may be commercially available for sale. For example, among our human albumin products, only human albumin 20%/10ml, 20%/25ml, 20%/50ml, 10%/100ml, 10%/20ml, 10%/50ml, 25%/50ml and 20%/50ml (10g, from factor IV) products are currently approved and are commercially available.

- (2) "IU" means International Units. IU is a unit used to measure the activity of many vitamins, hormones, enzymes, and drugs. An IU is the amount of a substance that has a certain biological effect. For each substance there is an international agreement on the biological effect that is expected for 1 IU. In the case of immunoglobulin, it means the number of effective units of antibodies in each package.
- (3) Tetanus antitoxin is a cheaper injection treatment for tetanus. However, it is not widely used because most people are allergic to it.

Source: Form 20-F, filed on March 06, 2019