

# HUMPTY'S CHRISTMAS WISH LIST



The following items have been requested by some of the hospitals and health services that Humpty currently supports. Each item has been assessed and approved by Humpty's Medical Sub Committee to appear on Humpty's Christmas Wish List which is regularly updated.

If you do have any questions surrounding Humpty's Wish List or would like to purchase an item off the List please call Humpty on 02 9439 0511 for assistance.

We hope you can help grant some of these vital wishes.

**Flowtech Oxygen Meter: \$350 each – 6 needed**  
**HOSPITAL – Royal North Shore, Newborn Care Centre**

Oxygen Flow Meters are vital for the delivery of oxygen to preterm infants in neonatal intensive care, with improved delivery settings for small quantities.



**CPAP Device: \$1,450 each – 1 needed**  
**HOSPITAL – The Children's Hospital at Westmead, Respiratory Support Service & Sleep Unit**

CPAP (Continuous Positive Airway Pressure) is a type of respiratory support that assists a child's ability to breath. It involves the use of a CPAP mask and device. The CPAP device delivers continuous pressure via the mask to the airway and lungs. This opens the airways to allow normal breathing to occur. Normal breathing is important as it helps deliver oxygen and get rid of carbon dioxide.

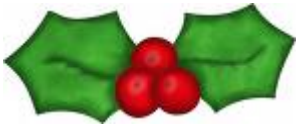


**Bell and Pad Ensuresis Alarm: \$1,660 each – 4 needed**  
**HOSPITAL – Manly, Northern Beaches Child and Family Health Service**

Bedwetting is a common and complex problem causing distress and the risk of low self esteem to many children and emotional distress to their families. The 'Bell and Pad' alarm system is one of the most effective treatments to assist these children. It works by conditioning the child to become aware that their bladder is full and needs emptying, causing them to wake up and visit the toilet. The clinic has been running since the mid 1980's and few of the original alarms are still working. By replacing a few of the old alarms the clinics turnover rate will be a lot quicker and more children will be helped more efficiently.



*All donations are 100% tax deductible*  
*A plaque recognising your donation will be attached to equipment purchased*  
*(if space on equipment permits)*



**Neopuff Infant Resuscitator: \$1,700 each – 5 needed**  
**HOSPITAL – Royal North Shore, Newborn Care Centre**

This equipment is vital for the resuscitation of newborn babies. It is used when a baby requires help with breathing either at birth or whilst in the Neonatal Intensive Care Unit. The Neopuff allows us to breath for the baby at different rates, with different amounts of pressure and using different amounts of oxygen. It is a vital piece of equipment.



**Portable Pulse Oximeter: \$3,190 – 1 needed**  
**HOSPITAL - Bankstown, Children's Ward**

Used to monitor oxygen saturation levels in patients with low perfusion and high movement. It has a colour LCD screen with trending and a built in backup battery.



**MR850 Humidifier Base: \$3, 500 each – 6 needed**  
**HOSPITAL – Royal North Shore, Newborn Care Centre**

Humidifiers add heat to the oxygen which is delivered to critically ill babies during mechanical ventilation. As their upper airway is bypassed sick babies are at risk of becoming very cold. Many ill babies may have thick airway secretions which block their breathing tubes and destruct the lining of their airways or even collapse their little lungs. Humidifiers help prevent thick secretion build up and thus protect the lung



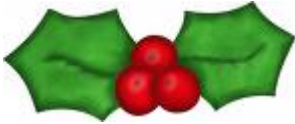
**Bilitron 3006 Super LED Phototherapy: \$5,100 each – 2 needed**  
**HOSPITALS – Grafton Base, Special Care Nursery & Auburn, Paediatrics**

A significant amount of babies are admitted to the nursery for the treatment of jaundice. This technologically advanced Phototherapy unit gives off three times the amount of blue spectrum Phototherapy than other models. This piece of equipment makes treatment more efficient thus reducing a baby's stay in hospital.



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**NETS Good Egg Pack: \$6,000 each – 17 needed**

**HOSPITALS – Armidale, Bathurst, Canberra, Campbelltown, Coffs Harbour, Dubbo, Gosford, Griffith, Lismore, Maitland, Orange, Nowra, Tamworth, Taree, Tweed Heads, Wagga Wagga, Wollongong**

This emergency pack has been a long time coming. NETS have worked closely with leading Paediatricians to ensure each pack is equipped with crucial equipment and items required to treat a sick baby in an isolated emergency situation until the NETS team arrives.

Strategically placed in regional base hospitals around rural NSW, the packs will be ready and waiting should an emergency situation arise. Each pack is waterproof and folds out ensuring all the contents are easily accessible and visible at a glance.

**Portable Blood Pressure Saturation Monitor: \$6,330 – 1 needed**

**HOSPITAL - Manning Rural Referral, Children's Ward**

Critically ill children need their vital signs monitored. The Trio unit has the advantage of being a compact mobile unit that can be used in transport. It also allows for the flexibility of all children to be monitored in a changing environment.



**Vital Signs Monitor with Stand: \$6,400 – 1 needed**

**HOSPITAL - Armidale, Accident & Emergency**

This piece of equipment is used to monitor blood pressure, temperature, heart rate and oxygen saturations. Vital observations are the most important factor in managing the care of a child. This monitor will allow staff to take the observations of a child in the least invasive way possible, reducing anxiety for children and their families.



**NeoBLUE Phototherapy Unit: \$6,490 – 1 needed**

**HOSPITAL - Bankstown, Special Care Nursery**

Many children are admitted to the nursery for treatment for jaundice. This phototherapy unit provides the benefits of multiple lights in one device.



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**Humidified Nasal Oxygen Delivery System: \$6,700 – 1 needed**  
**HOSPITAL - Liverpool, Paediatrics**

This piece of equipment helps to deliver high flow and a high concentration of oxygen to children suffering from respiratory problems. It improves patient comfort and may prevent many hospital transfers and Intensive Care Unit admissions.



**Bilisoft Phototherapy System: \$8,150 each - 6 needed**  
**HOSPITAL S – Fairfield, Special Care Nursery (1); Liverpool, Newborn Intensive Care Unit (1); The Children’s Hospital at Westmead, Newborn Care Centre (2) & Westmead, Newborn Care Centre (2)**

Phototherapy blankets are used to treat jaundice in babies in such a way that the baby and mother are not separated. The baby can be held, fed, even rocked when phototherapy is required to prevent damage to the developing brain. The blanket is wrapped around the baby and is maintained in the babies existing cot by the bedside.



**Medtronic Insulin Pump: \$8,800 each – 3 needed**  
**HOSPITALS – St George, Children’s Ward & The Children’s Hospital at Westmead, Institute of Endocrinology and Diabetes (2)**

Insulin dependent diabetic children find management of their condition much easier with the use of an insulin pump. This removes the need for regular injections of insulin and maintains insulin levels with much higher accuracy. Quality of life for these children is greatly improved. These pumps are the best treatment available for children with diabetes.



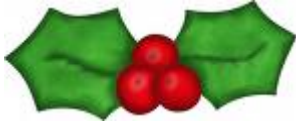
**Bilisoft Phototherapy System with mobile stand & mounting brackets: \$9,400 - 1 needed**  
**HOSPITAL – Sydney Adventist, Special Care Nursery**

Similar to the Bilisoft Phototherapy System mentioned above this equipment treats jaundice in babies in such a way that the baby and mother are not separated. The baby can be held, fed, even rocked when phototherapy is required to prevent damage to the developing brain. The blanket is wrapped around the baby and is maintained in the babies existing cot by the bedside. The options of a mobile stand and mounting brackets are included.



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**Jaundice Meter: \$9,600 each – 2 needed**  
**HOSPITAL - Manning Rural Referral, Nursery & Canterbury, Newborn Care Centre**

Jaundice (yellow colouring) is a common problem with newborn babies. To determine the level of jaundice in the past a blood sample was obtained by pricking the baby's heel. With this new device it is possible to significantly reduce the number of painful blood samples carried out on the baby by measuring the jaundice level through the skin instead.



**Sleep Apnea Monitor: \$10,900 each – 3 needed**  
**HOSPITAL – The Children's Hospital at Westmead, Respiratory Support Service & Sleep Unit**

A sleep apnea device is an electronic device which registers the breathing pattern, heart rate, respiratory rate and oxygen levels of a baby. They have the capability of then sending this data to the specialist via the internet or a telephone line for real time care. These monitors effectively allow babies and young children to stay at home but they are under the constant supervision of a doctor which means that treatment plans can be modified if needed and should an urgent consultation be required, the doctor will have the information on hand showing their recent breathing patterns.



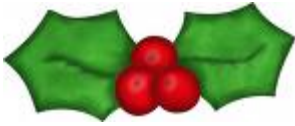
**Gamma XL Monitor: \$13,860 – 1 needed**  
**HOSPITAL – Tamworth Rural Referral, Children's Ward**

This monitor allows us to monitor heart rate, respiratory rate, oxygen levels, blood pressure, and temperature on very sick babies with alarms that notify staff of any variance. This equipment provides doctors with instant information on any changes to cardiac, respiratory and oxygen levels thus enable them to undertake the necessary treatment to reduce ongoing problems.



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**Infant Resuscitation Cot: \$24,100 each – 4 needed**

**HOSPITALS - Bankstown, Special Care Nursery; Nepean, Postnatal Ward; Manly, Maternity Ward & Campbelltown, Delivery Suite**

An infant resuscitator is a vital piece of equipment in the assessment and stabilisation of newborn babies. This unit integrates a surface to examine the baby on and a heater to prevent babies from cold stress. It also allows the delivery of oxygen and air when babies need help in taking their first breathes.



**C2000 Incubator: \$26,500 – 1 needed**

**HOSPITAL - Mona Vale, Maternity**

This Newborn Incubator is used to care for sick and premature babies whose needs may range from simple interventions such as warmth and feeding support to more complex care including oxygen therapy. It is a life saving piece of equipment particularly when used for oxygen delivery. It has internal blended oxygen therapy so there is no need to use a head box oxygen delivery system resulting in a more comfortable state for the baby. The incubator is easy for staff to use and parents can see and touch their babies easily through the port holes.



**Babytherm Resuscitator: \$27,000 – 1 needed**

**HOSPITAL - Manning Rural Referral, Children's Ward**

This versatile bed for newborn babies maintains optimal thermoregulation, whilst maintaining visibility of the critically unwell or premature baby. The height of the bed can be adjusted with clear sides, assisting with parent contact and visualization of their baby, whilst allowing staff optimum clinical observation and care.



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**Cosy Cot Resuscitation: \$27,750 – 1 needed**  
**HOSPITAL – Port Macquarie Base, Special Care Nursery**

An infant resuscitator is a vital piece of equipment in the assessment and stabilisation of newborn babies. This unit integrates a surface to examine the baby on and a heater to prevent babies from cold stress. It also allows the delivery of oxygen and air when babies need help in taking their first breathes.



**Cosycot Resuscitator and Accessory Pack: \$29,500 – 1 needed**  
**HOSPITAL - Manly, Maternity Unit**

The infant resuscitator trolley is for use in emergencies when a baby requires active resuscitation. It has facilities for warming, oxygen and suctioning. Having a portable trolley plays a very important part in the safe care of newborns.

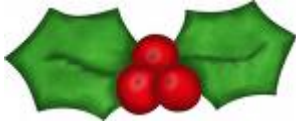
**SimNewB with Peripheral Kit: \$35,100 – 1 needed**  
**HOSPITAL – John Hunter Newcastle, Neonatal Intensive Care Unit**

This piece of equipment is a life like resuscitation doll sized to represent a newborn. It can stimulate all scenarios one finds in the resuscitation of a newborn baby. The SimNewB can be stimulated to be breathing, not breathing, blue or pink and have a fast or slow heart beat or one that is not present at all. Each year approximately 10% of babies are resuscitated at birth and the SimNewB will play a vital role in the extensive training program run at the hospital which is also taken throughout the Hunter New England health region.



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**Infant Resuscitation Cot: \$41,700 each – 2 needed**  
**HOSPITALS - St George, Women's and Children's Health & Campbelltown, Special Care Nursery**

Similar to Infant Resuscitation Cot mentioned earlier, this cosycot has been significantly upgraded to enable staff to care for critically ill babies in a neonatal intensive care unit. This equipment also allows babies to be transported between the delivery suite and the Intensive Care Unit.



**Vmax Encore System: \$52,000 – 1 needed**  
**HOSPITAL – Sydney Children's Hospital, Randwick, Respiratory Medicine**

This machine is used to test how the lungs of children with chest problems are working. It helps to diagnose and monitor the treatment of children suffering from lung problems such as asthma and cystic fibrosis which is the one of the most commonly inherited life limiting respiratory diseases in this country, affecting one in 2500 children. This machine is able to perform the following tests to determine how ones lungs are functioning;

**Spirometry**; used to measure lung and airway size, tested in all respiratory conditions e.g. asthma, cystic fibrosis and lung disease caused by cancer treatments.

**Diffusion studies**; used to monitor how easily oxygen can get from the surrounding air into the bloodstream. This is particularly important in children with cancer who are receiving chemotherapy as the prescribed medicines can cause thickening of the lining of the airways and reduce the oxygen transfer across into the bloodstream.

**Respiratory muscle pressures**: The chest acts like a set of bellows which are controlled by muscles of breathing. This test measures the strength of the muscles that we use to breath, used for early detection of muscle weakness, particularly important in children with muscle disease such as muscular dystrophy as poor breathing from weak muscles can lead to chest infections and an early death.

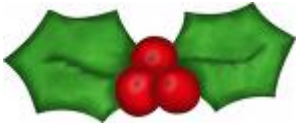


**Babylog 8000 Ventilator: \$57,750 – 1 needed**  
**HOSPITAL - Westmead, Newborn Care Centre**

This advanced ventilator is the best way to support the lives of critically ill infants. Doing the breathing for infants is a much more delicate task than it is for older children and adults therefore a specialised machine is required. Having this ventilator to help with resuscitation of a child would mean a staff member would not have to do it by hand therefore, infants will get better ventilation and a vital pair of hands will be free for other tasks in a time critical situation.



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**Nicolet One: \$67,200 – 1 needed**  
**HOSPITAL - Nepean, Neonatal Intensive Care Unit**

A multi-purpose machine that is used to monitor a babies sleep cycles, breathing, heart rate patterns and oxygen levels. It helps to assess brain functioning in infants who have had problems around birth and to predict which babies would benefit from interventions to improve their long term neurological development. It also detects seizures and performs sleep studies prior to discharge of preterm babies and other children at risk of Sudden Infant Death Syndrome.



**Diagnosys Espion Electrophysiology Equipment: \$217,850 – 1 needed**  
**HOSPITAL – Sydney Children’s, Randwick, Ophthalmology**

This piece of equipment measures vision and how well the back of the eye (the retina) works. The major tests are the electroretinogram (ERG) and the visual evoked potential (VEP). An object seen by the eye produces an electrical response in the retina. The ERG measures this response. Children presenting to the eye clinic will sometimes not see because their retina is not working properly. In some cases the only way this can be diagnosed is by performing an ERG. This is done by a disc (electrode) being places on the surface of the eye.



The electrode will pick up an electrical response from the back of the eye. The electrode is connected to a computer. In children under 4 years of age the testing is done with some sedation. In older children sedation is usually not necessary. A multifocal ERG allows us to accurately assess where in the retina the abnormality is. The VEP measures what information is getting from the retina to the brain (the visual path). Discs called electrodes are placed on the back of the head to measure the brain waves which arrives from the back of the eye. The machine can also be used to detect eye disease such as night blindness and drug toxicity in the eyes which can help clinicians regulate the medication of children.



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