Why expectant parents choose Cordlife Technologies to store their baby’s cord lining:

1. **First family cord lining bank in Singapore**

2. **Listed on the Singapore Exchange Mainboard** - Cordlife Technologies Pte Ltd is a wholly owned subsidiary of Cordlife Group Limited that is providing our clients full transparency to our financial health.

3. **CellOptima™ Patented Technology** - Exclusively available at Cordlife Technologies to isolate two cell lines (Epithelial and Mesenchymal stem cells) present in your baby’s umbilical cord.

4. **Purest Processing Stage** – Do not isolate and expand the cord lining stem cells before cryopreservation to maintain the original characteristics of the stem cells. This serves as the source for other potential type of useful stem cell that may be discovered in future.

5. **Flexible Storage Method** – Uses multiple cryovials to store the umbilical cord lining sections so that you can have the flexibility to withdraw one cryovial at a time without affecting the viability of the cord lining sections in other cryovials.

6. **Largest network in Asia** - with fully owned facilities in Singapore, Hong Kong, Indonesia, India and The Philippines.

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**CORDLIFE AND CORD LINING BANKING INFORMATION & FACTS**

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What is Umbilical Cord?

The umbilical cord is the connecting cord from the developing embryo or fetus to the placenta which allows blood to carry oxygen and nutrition to the baby in the womb. After the baby is delivered, the umbilical cord is cut and normally discarded with the placenta as medical waste until researchers became aware of its medical potential.

What are Umbilical Cord Stem Cells?

The umbilical cord contains high numbers of Epithelial (EpSCs) and Mesenchymal (MSCs) stem cells which have shown immense potential in aiding the repair of injured tissues and organs and the treatment of various diseases. EpSCs form the soft tissues that connect, support, or surround other structures and organs of the body including cornea, skin, and liver. MSCs are the building blocks of structural tissues of our body such as bone, cartilage, muscle, fibrous tissues and fat.

Scientists believe that the umbilical cord lining also contains other types of cells which may be useful but have yet to be discovered.

Why Bank Umbilical Cord Lining?

When you bank the umbilical cord lining, you are banking the stem cells found in it. Cordlife is the first company in Singapore with an exclusive license to the technology, CellOptima™, for the harvesting and expansion of TWO TYPES of progenitor stem cells that can be collected from the Umbilical Cord Lining – Epithelial and Mesenchymal stem cells. In contrast, when you bank cord blood, you are banking stem cells found in it which are mostly Hematopoietic (or blood forming) stem cells.

Storing both cord blood and umbilical cord lining will allow maximum recovery of all types of stem cells, thus increasing one’s options for possible therapeutic applications in the future.

By storing a combination of HSCs, MSCs and EpSCs, you may be availing your child to be part of a medical revolution with access to growing applications of stem cells and the therapeutic potential that they hold. These cells, being able to be collected only at birth, are the youngest and most potent cells available.
Applications with **MSC** and **EpSC**

**Did you know...**

**1 out of 3**

Every day, **15** people die from cardiovascular disease (heart disease and stroke) in Singapore. Cardiovascular disease accounted for **30.4%** of all deaths in **2011**. This means that **1 out of 3** deaths in Singapore is due to heart disease or stroke.¹

**more than 400,000**

In Singapore, one out of **9** people aged **18 to 69** has diabetes. That's **about 11.3%** of our population or **more than 400,000** people!²

**40%**

The most common form of arthritis, Osteoarthritis (OA) affects an estimated **40%** of the adult population in Singapore. Of these, only **10%** seek medical advice and only **1%** are severely disabled.³

The table below outlines some of the potential applications with cord lining stem cells in more than 300 clinical trials today.

For some patients, clinical research trials represent an avenue for receiving promising new therapies that would not otherwise be available. Patients with difficult to treat or currently “incurable” diseases, such as AIDS or certain types of cancer, may want to pursue participation in clinical research trials if standard therapies are not effective. Clinical research trials are sometimes lifesaving.⁴

<table>
<thead>
<tr>
<th><strong>Epithelial stem cells (EpSCs)</strong></th>
<th><strong>Mesenchymal stem cells (MSCs)</strong></th>
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<tbody>
<tr>
<td><strong>Potential</strong></td>
<td><strong>Potential</strong></td>
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<tr>
<td>• Wounds/soft tissue repair</td>
<td>• Tissue repair</td>
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<td>• Surface ulcers (e.g. diabetic ulcers)</td>
<td>• Myocardial infarction (smooth muscle repair)</td>
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<tr>
<td>• Various types of burns</td>
<td>• Osteoarthritis (cartilage repair and other orthopedic applications)</td>
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<tr>
<td>• Tissue trauma</td>
<td>• Stroke</td>
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<tr>
<td>• Lining of liver</td>
<td>• Pulmonary fibrosis</td>
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<tr>
<td>• Replacement of corneal membrane</td>
<td>• HSCs engraftment support</td>
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<td></td>
<td>• Shorten time of engraftment</td>
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<td>• Reduce immune system complications</td>
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<td>• Immune modulation</td>
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<td></td>
<td>• Type 1 diabetes</td>
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<td>• Crohn’s disease</td>
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<td>• Graft versus Host disease (GvHD)</td>
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References:

Easy Steps to Get Started

Step 1  Enrolling with Cordlife Technologies
Contact us at our 24-Hour Hotline (65) 6238 0808 to make an appointment with our Consultant.
* If you are due within the next 4 - 6 weeks, we strongly recommend you to contact us immediately for enrolment because this will ensure all necessary steps are completed before your baby's arrival.

Step 2  Receive Your Collection Kit
Once the enrolment procedure is completed, we will provide you with personalised Cordlife Cord Lining Collection Kit. The kit will contain everything needed for the collection of your baby’s umbilical cord.
Kindly store your collection kit in a sheltered, room temperature environment.

Step 3  Inform Your O&G Doctor
Inform your O&G doctor that you have enrolled with Cordlife for the collection of your baby’s umbilical cord.

Step 4  Bring Your Collection Kit
Bring your personalised collection kit to the hospital on the day of your delivery.
Pass the collection kit to the nurse / caregiver in the hospital room after admission. After both mother and baby are safely delivered, the doctor / caregiver will collect the umbilical cord.

Step 5  Call Us after the Delivery of Your Baby
After your baby is born, please call us at (65) 9388 0567 and provide us with your full name, NRIC no., contact no. and name of hospital.
Your baby’s umbilical cord will be collected within 24 hours.

For more information, Contact Cordlife Technologies at

Cordlife Technologies 24-Hour Hotline
6238 0808

Cordlife Technologies Consultation Booths
Thomson Medical Centre (TMC)
Mon - Fri (9.30am – 5pm), Sat (9.30am – 12.30pm)

Thomson Diagnostic Ultrasound Centre
(Novena Medical Centre)
Mon - Fri (9am – 5pm), Sat (9am – 1pm)

Parkway East Hospital (PEH)
Mon - Fri (9.30am – 5pm)

Cordlife Technologies Website
www.cordlifetech.com

Cordlife Technologies is a wholly-owned subsidiary of Cordlife Group Limited.
The banking and storage of Umbilical Cord Lining service is not licensed by MOH as this is provided on a research/clinical trial basis.