



# Newsbites

January 2014

## A ray of hope for AUTISM patients

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**Definition:** Autism is a brain disorder and / or condition that impairs a person's ability to communicate, form relationships, socially interact, and respond appropriately within a given environment.

**Incidence:** Autism is reported across all racial, ethnic and socio-economic groups

**Causes:** The exact cause of Autism is unknown.

- 20-25% of children with autism also have a known genetic syndrome
- 75%- 80% of children with autism have no known factor or causes of the condition
- Symptoms usually appear in children before age 3
- Some possible causes of autism may be genetic factors, environmental factors, immune system dysfunction, a combination of these or other factors

**Treatment :** Current investigational therapies for autism attempt to revert through administration of antibiotics, anti-inflammatory and hyperbaric oxygen. Unfortunately none of these approaches treat the root cause of oxygen deprivation and intestinal inflammation.

**Treatment through stem cells:** Stem cell therapy is a novel and effective way of treating autism. Stem cell therapy targets many areas of concern:

- Immunity
- Metabolism
- Learning, memory and thinking capability
- Communication ability

Mesenchymal stem cells can regulate immune system. It is thought that they may reverse inflammatory conditions and is currently in the final stages of clinical trials in autistic children.

Stem cells used to treat autism come from human umbilical cord tissue (autologous/ allogenic mesenchymal stem cells). These stem cells are obtained from patients own or donated umbilical cords.

**Advantages of treating autism through stem cells obtained from umbilical cord tissue:**

- No rejection and no need for HLA matching.
- Autologous stem cells can be administered multiple times over the course of days in uniform dosages.
- As per the research, mesenchymal stem cells from umbilical cord tissue are better than other sources.
- Painless procedure for donor as compared to one obtained from bone marrow.

Umbilical cord derived stem cells are administered by physician intrathecally (into spinal fluid) by the anesthesiologist. Bone marrow derived CD34+ cells are administered both intrathecally or intravenously.

FDA approves the initiation of clinical trial for cord derived stem cells in treatment of autism.



### Keep in touch

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## Another feather in the cap!

We are proud to announce that the Healthcare Excellence Award 2013 for 'Cord Blood Bank' has been conferred upon BabyCell, Regenerative Medical Services Pvt. Ltd.

A big 'Thank You' for all your support and trust in us.

To view the coverage of the award please visit <http://www.youtube.com/watch?v=Uz-hNPnsCYQ>

In the picture (L-R):

Shri (Dr.) C.P. Thakur {M.P. (Rajya Sabha), V.P. Bhartiya Janata Party, Former Cabinet Minister of India}, Mr. Yash Sanghavi, CEO, BabyCell - Regenerative Medical Services Pvt. Ltd., Shri (Prof.) M.C. Mishra {Director of All India Institute of Medical Sciences}



## Jingle bells, jingle bells, jingle all the way...



### Santa Claus is coming to town!

Preserve your love AND look fabulous. Hear all about stem cell banking from BabyCell and pamper yourself with PALMER'S beauty products!

**babycell** wishes you a Merry Christmas and a fabulous New Year

## BabyCell supports 37<sup>th</sup> annual conference of SOGOG

BabyCell supported the 37<sup>th</sup> annual conference of SOGOG - State Organization of Obstetricians and Gynecologist of Gujarat held at Vadodra, Gujarat. Unique workshops by renowned faculties from across India and abroad were arranged. This Conference was a forum to exchange innovative ideas as well as learn the latest developments in the field of OB-GYN.

BabyCell participated in the conference to share their expertise in cord blood banking and the future of stem cells.



## All work and no play makes Jack a dull boy

Head-office team took a day off to visit a theme park in Mumbai! A holiday full of surprises, excitement, scary rides and illusionary characters turned into a great way to bond, relax and have some fun!



So, why should the field force be left behind? They visited the buzzing city of Bangkok and exotic Pataya. Amidst tuk-tuks, dolphins and orangutans these guys didn't catch a wink throughout the trip!

So who says it's all work and no play?!

