

MONDAY, FEBRUARY 9, 2

AHMEDABAD BANGALORE CHANDIGARH CHENNAI HYDERABAD KOCHI KOLKATA LUCKNOW MUMBAI NEW DELHI P

REGENERATION



CENTRES

Stem cell research is finally moving out of the labs to Indian hospitals to cure diseases like cardiac and eye disorders, diabetes, spinal injuries and cancer

Sudhir Chowdhary

Publication: e Financial Express

: 01

Issue

Page Title : February 09, 2008

: Regeneration centres

T IV Prasad Eye Institute, Hyderabad, eye specialista eu using a new approach to repair eye damage. By growing new comeas from adult stemcells in a petridish, they have surgically implanted these corneas in over 1,000 patients with damaged eyes, thereby making the institute one of the most prolific facilities globally to usestem cells from living adults to grow

new cens.

At the multi-specialty KG Hospital to At the multi-specialty KG Hospital to At the multi-specialty with the special to the special

usekes; thoegy most.
There is some good news for diabetic as well. A new treatment involving stem cell therapy is round the corner a doctors at the department of diabete of the control o

Reliance Life Sciences is aggressive veloping wide range stem cell the ies in the areas of cardiac disorder.

spinal cord injury, metabolic disorders oncology, ophthalmic diseases, amon others. The company is closely workin withseveralhospitals to conduct clinica trials for its offerings, before it launche its therapies commercially.

y Apollo Hospitals has set up a dedicated facility in Hyderabad, which is undertaking the development of new stemcell in therapies for cancer, heart disease and diabetes. Eventually, such therapies will be launched commercially at its various hospitals across the country.

clearly, the buzz around stem cells is no longer conflined to research breakthroughs and is expanding in its ability to cure life-throatening diseases likediato travel in the broad of the confliction of cancer, spinal injuries, Alzheimer's disge ease, Parkinson's disease, theumatoid
arthritis and many others. Large pharmaceutical majors, hospitals and stem a
abile business too, Incidentally, India is
so now apart of Siem Cell Network AsiaFacific: an organisation established in
2007 to promote the development of
stem cell research in the region. Besides
India, member countries include China,
Japan, South Korea, Tailwan, Thailand,
Japan, South Korea, Tailwan, Thailand,

Taiwan, Thailand, ilia. country is an amazing cell to 20 cell to 2

ospitals, All India Institute of Sciences (AIIMS), Ganga Ram and Maulana Azad Medical foray at Fortis Hospitals. "Stem treatment for diabetic foot ulcers will a major breakthrough. Around 709

ollage in New Delhi, Manipal
edicial College, IV Prasad
re Institute, Niche-in Centre
r Regenerative Medicine,
eliance Life Sciences and many
ore are fine-tuning their
inical skills in this niche
gment to offer stem cell
erapy on a commercial scale.
he global market for stem cell
erapy is expected to be \$20
llion by 2010. as per a Frost &

From a few institutes two years back, today over 40 institutions are involved in stem cell research and therapy. On its part, the government has been actively engaged in major capacity by engaged in major capacity al building efforts to create an inter-connected, well managed stem cell research and therapy

tale - telephretinthecountry of the Color of

for one, healthcare analydes and clinicians aregung hoo in ina, business prospects emergand, from stem cell therapy in different country, it is estimated that clinician country, it is consistent to the country of the country o

research and therapy in this ar Take for instance diabet says Anoop Misra, who

eg amputations are caused by tes and most amputations begin ooculieers. Thereforethroughssem pproach, a potential cure could md." totech companies based in the US by Geron and Curis are already ingonthecommercial applications course medical technologous in Cidia

workingonthecommercialapplications of this new medical technology in India, informs Hitesh Gajaria, executive-director, KPMG India. It is estimated that in the next 5-10 years, stem cell therapies will beables to treat anumber of diseases. It is estimated that, roughly 128 million peoples willer fromdiseases that could be effectively treated or cured through seem cell therapies stem cell therapies stem cell therapies stem cell therapies of the order order of the order of the order of the order o

medicaltreatment."
Muralidharan Nair, partner (advisoryservices) Ernst & Youngsays, 'Healthcare companies have begun rolling out stem cell based therapies commercially in India beginning with treatment for restoring vision. They have lined up other stem cell therapies for cardiac infarction and diabetic ulcers which may begfferejit clinics and possibation.

increased funding by various governments around the world can expand the potential of hospitals, stem cell banks and biotech companies in India engaged in this segment. Stem cell transplantation facilities are increasing in India, but for optimal utilisation of these facilities, it is important to create concept awareness, which is currently laseing behind

On the research front, departmen of biotech (DBT) Officials inform that there is a short term goal to studbiology of all types of adult stem cell and evaluate the efficacy in anima models. Christian Medical College Vellore and DBT have set up a centin for stem cell research to carry ou basic, clinical and translationa research.

research.
According to AlIMS officials, while there are number of laboratories working to improve stemcells purification and expansion for efficient therapeutics, the long-term side effects still unknown as most of the clinical



THE HOLY GRAIL

lealthcare providers readying tem cell therapy

Apollo GroupCadila PharmaceuticalsFortis Hospitals

KG Hospital, Coimbatore

 KG Hospital, Coimbatore

 VP Prasad Eye Institute

 Manipal Institute for Regeneration

Manipal Institute for Regenerative
 Medicine
 Reliance Life Sciences

Therapies available f

Spinal cord injury

Ophthalmic diseases

Oncological diseasesDiabetes

By the numbers

 Global market for stem cell therapy by 2010; India is expected to garner 5% of this share by pext year

0 million Indian patients to undergo ste

yyear