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Stem cell palsy hope

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researchers
plan to give stem cell-rich umbilical cord blood to newborns
suspected of suffering brain
injury during labour, as they
aim for the earliest possible
prevention of cerebral palsy.

The project comes as researchers further uncover the
different ways separate stem
cells in cord blood play their
own unique role in promoting
brain repair, while the delivery
of different cells at different
times may prove crucial. times may prove crucial.

Researchers plan newborn brain injury trials

The Cerebral Palsy Alliance

The Cerebral Palsy Alliance had already started recruiting for a national safety trial using a sibling's cord blood frozen at birth for stem cell infusion for children with cerebral palsiance is now working with the Ritchie Centre at the Hudson Institute of Medical Research to secure funding and start a national newborn trial as early as next year. next year.

Ritchie Centre deputy director Graham Jenkin said his team had shown for the first time that different tracts—the neural pathways connecting distant areas of the brain — did not connect well in sheep with these injuries.

"The association is if those tracts don't join up, you get problems with movement, but also intellectual and learning disability," Prof Jenkin said.

disability," Prof Jenkin said. He said the team aimed to

harness the three properties of umbilical stem cells - their ability to reduce inflammation, ability to reduce inflammation, to improve the environment so native stem cells could better do their job, and to stimulate blood vessel growth.

"The holy grail is to prevent it before it happens and protect the brain," Prof Jenkin said.

A newborn trial has started in the US, as a one-off dose.
Cerebral Palsy Alliance research head Iona Novak said it

"If you have a stroke, you wouldn't want to wait a couple of years before you tried a treatment," Prof Novak said.

treatment," Prof Novak said.
"For children with a brain
injury, we need treatments to
use in the neonatal period."
Ritchie Centre postdoctoral
fellow Courtney McDonald
told a conference hosted by the
centre this week, that the timing of when cells were given to

animal models impacted their effectiveness. "If one cell type is good at suppressing inflammation, we might want to give that in the first week," Dr McDonald said.

"But one promoting blood vessel repair, we may give that

Prof Novak said the lack of Prof Novak said the lack of funding in Australia for safety studies, not involving pharma-ceutical companies. meant ceutical companies. meant philanthropic support would be vital to starting the trial. brigid.oconnell@news.com.au TINY BALLS OF LIFE, PAGE 35





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