

## Oxygen therapy reverses brain damage in toddler who nearly drowned

In what is believed to be a world first, scientists have reversed brain damage in a toddler that drowned in a swimming pool. Using oxygen therapy, scientists were able to restore her ability to walk and talk just months after the accident, in which she spent 15 minutes submerged in a swimming pool and two hours where her heart did not beat on its own.

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MRI scans showed deep injury to the brain's gray matter, as well as loss of white and gray matter.

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[The toddler was treated with] normobaric oxygen therapy, where levels of oxygen given are the same as at sea level, and hyperbaric oxygen therapy (HBOT), where they are given pure oxygen at pressures higher than that of the atmosphere within a special chamber.

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An MRI scan a month after the 40th HBOT session showed almost complete reversal of the brain damage initially recorded. Researchers believe the oxygen therapy, coupled with Eden having the developing brain of a child, had activated genes that promote cell survival and reduce inflammation—allowing the brain to recover.

**The GLP aggregated and excerpted this blog/article to reflect the diversity of news, opinion, and analysis. Read full, original post: [Scientists reverse brain damage in drowned U.S toddler Eden Carlson](#)**