

## Aspirin preferred to prevent blood clots in kids after heart surgery

February 14 2021



Aspirin should be favoured over warfarin to prevent blood clotting in children who undergo a surgery that replumbs their hearts, according to a new study. Credit: Jesse Orrico

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new study.

The research, led by the Murdoch Children's Research Institute (MCRI) and published in *The Journal of Thoracic and Cardiovascular Surgery*, will have implications for clinicians when prescribing blood thinning medications after Fontan surgery, a complex congenital <u>heart</u> disease operation redirecting <u>blood flow</u> from the lower body to the lungs.

The Fontan procedure is offered to children born with severe heart defects, allowing the child to live with just one pumping heart chamber instead of two.

MCRI Dr. Chantal Attard said although the operation couldn't completely 'fix' the heart, most were able to live well into adulthood and have relatively normal lives. But she said those who have the procedure were at an <u>increased risk</u> for <u>blood clots</u>.

"Blood clots are dangerous because they can cause the heart to fail or lead to a stroke. For this reason, all patients are given blood thinning medications, with <u>warfarin</u> and aspirin the most common," she said.

"Warfarin can be affected by food, other medications and illness, so patients must have regular blood tests to check their warfarin levels are safe."

The study involved 121 patients enrolled in the Australian and New-Zealand Fontan (ANZ) Registry. It found stroke was common regardless of which <u>medication</u> the patient took. But patients on warfarin had poorer bone mineral density and were at a higher risk of bleeding.

Dr. Attard said the research showed for patients who undergo Fontan surgery, and do not have additional blood clotting risk factors, aspirin should be offered over warfarin.



She said given the need for regular INR monitoring of warfarin, a shift to aspirin would also have a cost benefit to the patient and the healthcare system.

About 70,000 post Fontan patients are alive today, with this number expected to double within two decades.

Carley Clendenning's son Lachie, 7, had the Fontan procedure two years ago after being born with one heart ventricle.

She said the aspirin findings were a relief as the medication was much easier to manage and would benefit other families whose children required the procedure in future.

"Lachie has been taking warfarin ever since his surgery and there are things you have to keep on top of with this medication," she said.

"We have to monitor his blood clotting levels with regular finger prick <u>blood</u> tests at home and watch out for injuries because there is a greater chance of bleeding and bruises.

"In what is already a difficult time for families, this new recommendation will make things a little easier."

**More information:** Chantal Attard et al, Long-term outcomes of warfarin versus aspirin after Fontan surgery, *The Journal of Thoracic and Cardiovascular Surgery* (2021). DOI: 10.1016/j.jtcvs.2020.12.102

Provided by Murdoch Children's Research Institute

Citation: Aspirin preferred to prevent blood clots in kids after heart surgery (2021, February 14)



retrieved 4 May 2024 from https://medicalxpress.com/news/2021-02-aspirin-blood-clots-kids-heart.html

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