

FDA APPROVES WORLD'S FIRST DEVICE FOR TREATMENT OF PREMATURE BABIES AND NEWBORNS WITH AN OPENING IN THEIR HEARTS (A COMMON CONGENITAL DEFECT)

- First and only minimally invasive, transcatheter treatment specifically approved for premature babies with a patent ductus, a life-threatening opening in their heart

- Nearly 12,000 very low birth weight babies are born in the U.S. each year with a persistent opening in their heart that requires medical intervention[1,2,3]

- Life-saving technology provides new and optimally-sized treatment option to address critical need for the tiniest newborns, including premature infants weighing as little as two pounds

ABBOTT PARK, Ill., Jan. 14, 2019 /PRNewswire/ -- Abbott (NYSE: ABT) today announced the U.S. Food and Drug Administration (FDA) approved the Amplatzer Piccolo™ Occluder, the world's first medical device that can be implanted in the tiniest babies (weighing as little as two pounds) using a minimally invasive procedure to treat patent ductus arteriosus, or PDA. The Amplatzer Piccolo, a device even smaller than a small pea, now offers hope to premature infants and newborns who need corrective treatment, and who may be non-responsive to medical management and high risk to undergo corrective surgery.

One of the most common congenital heart defects occurring in premature babies, PDA is a potentially life-threatening opening between two blood vessels leading from the heart. This channel, which is present in normally developing fetuses, is important prior to birth to allow oxygen-rich blood from the mother to circulate throughout the fetus' body. For most infants, the pathway, or duct, seals itself shortly after birth. In some cases, primarily in babies born prematurely, the PDA fails to spontaneously close, which can make it difficult for babies to breathe normally due to increased blood flow to the lungs. PDA accounts for up to 10 percent of all congenital heart disease.⁴

Approximately 60,000 premature babies in the U.S. are born each year with a very low birth weight⁵, and nearly 12,000 (one out of five) of these have a hemodynamically significant PDA –a PDA that is large and causes symptoms – which will require urgent treatment for the baby to survive.^{6,7}

"This approval is a potentially life-saving advance for the very smallest premature infants that will help us treat these delicate babies who might otherwise not be able to survive," said Evan Zahn, M.D., director of the Congenital Heart Program at Cedars-Sinai's Smidt Heart Institute, and principal investigator for the study that led to FDA approval.

The Amplatzer Piccolo Occluder is a self-expanding, wire mesh device that is inserted through a small incision in the leg and guided through vessels to the heart, where it is placed to seal the opening in the heart. It is designed to allow the physician to insert it through the aortic or pulmonary artery, as well as to retrieve and redeploy the device for optimal placement. Because the device is deployed in a minimally invasive procedure, many of the premature babies who are critically ill in the neonatal intensive care unit are able to be weaned from artificial respirator support soon after the procedure.

Born at 27 weeks, twin babies Irie and Judah Felkner of Columbus, Ohio, were both fighting for their lives in the neonatal intensive care unit when an echocardiogram revealed Irie had a PDA that required immediate treatment.

"The doctor thought Abbott's Amplatzer Piccolo device was the best solution for Irie, and after learning more about the procedure we decided to move forward," said Crissa Felkner, Irie's mother. "You have to live it to fully appreciate what that device did for our daughter. Three days after the procedure, she was making great progress and is now a normal toddler with no limitations. The Abbott device was truly lifesaving for our daughter."

The Felkner twins were treated as part of the U.S. pivotal trial, ADO II AS, which helped to support the FDA approval of the device. The trial evaluated the Amplatzer Piccolo Occluder and enrolled 50 patients with a PDA who were older than three days at eight centers across the U.S. The safety and efficacy of the device is further supported by additional experience with the device under a continued access protocol involving 150 more patients.

"Piccolo is a critical advancement in the standard of care for the most vulnerable of premature babies who may not be able to undergo surgery to repair their hearts," said Michael Dale, vice president for Abbott's structural heart business. "Our mission is to develop life-changing technology to help people live better lives through improved health. This approval is another important step toward achieving our mission for the patients and physicians we serve."

The Amplatzer Piccolo device builds on more than 20 years of clinical success for Abbott's family of Amplatzer Occluder therapies, including the Amplatzer™ Duct Occluder II product, already approved for use in the U.S.,

Europe and countries around the world to treat PDA in larger size pediatric patients.

Abbott is committed to developing minimally invasive life-saving pediatric devices that have an immediate impact with long-term benefits, reduce the risks of life-threatening complications and allow physicians to confidently treat the youngest and tiniest patients. The FDA approval of the Amplatzer Piccolo device follows last year's approval of the world's smallest rotatable mechanical heart valve. The Masters HP 15mm pediatric mechanical heart valve provided surgeons with a much-needed option for treating vulnerable, high-risk pediatric patients with congenital heart defects and no other approved options.

For U.S. Important Safety Information about the Amplatzer Piccolo Occluder, visit <https://www.structuralheartsolutions.com/us/piccolo-ISI>.

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¹ National Vital Statistics Reports: Births: Final Data for 2016. Final Vol 67; Number 1; January 31, 2018.

² Tashiro, Jun, Bo Wang, Juan E. Sola, Anthony R. Hogan, Holly L. Neville, and Eduardo A. Perez. "Patent ductus arteriosus ligation in premature infants in the United States." journal of surgical research 190, no. 2 (2014): 613-622.

³ Bonamy, Anna-Karin Edstedt, Anna Gudmundsdottir, Rolf F. Maier, Liis Toome, Jennifer Zeitlin, Mercedes Bonet, Alan Fenton et al. "Patent ductus arteriosus treatment in very preterm infants: a european population-based cohort study (EPICE) on variation and outcomes." Neonatology 111, no. 4 (2017): 367-375.

⁴ Schneider, D. J., & Moore, J. W. (2006). Patent ductus arteriosus. Circulation, 114(17), 1873-18.

⁵ National Vital Statistics Reports: Births: Final Data for 2016. Final Vol 67; Number 1; January 31, 2018.

⁶ Tashiro, Jun, Bo Wang, Juan E. Sola, Anthony R. Hogan, Holly L. Neville, and Eduardo A. Perez. "Patent ductus arteriosus ligation in premature infants in the United States." journal of surgical research 190, no. 2 (2014): 613-622.

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