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| **ISA ISPID  Abstract Submission  Nº: 237**   |  | | --- | | Topics: **SIDS/SUID** | | Type: **Poster** | | **Sudden Infant Death by congenital heart disease with bifid apex** | | **IZQUIERDO MACIAN, ISABEL**1; **MONZO BLASCO, ANA**2; **CAMACHO, R**2; **MOLINA, PILAR**3; **ERREJON, A** 3; **ZORIO GRIMA, ESTHER**4 *1 - DEPARMENT OF PEDIATRICS. HOSPITAL LA FE. VALENCIA. 2 - DEPARTMENT OF PATHOLOGY. INSTITUT OF LEGAL MEDICINE. VALENCIA. 3 - DEPARTMENT OF PATHOLOGY. INSTITUTE OF LEGAL MEDICINE. VALENCIA. 4 - DEPARTMENT OF CARDIOLOGY. HOSPITAL LA FE. VALENCIA.* | | **Introduction** A case of sudden cardiac death is presented in an infant 14 days with no known medical history  **Material and Methods** Case report: black infant 14 days old corpse entering the emergency department after being found unconscious in the cradle, without providing prior clinical symptoms (during sleep).  **Results** Forensic autopsy established cause of death as cardiac malformation with left ventricular hypertrophy, and aortic stenosis subvalvular apex bifid. In the macroscopic study of cardiac viscera, with a weight of 26 grams (one month: 23.4 ± 4.2 g) is noted a thick wall  IV and IVT: 0.6 cm and DV: 0.4 cm. patent foramen ovale. Bifid apex, with a 0.6 cm slit separating the two ventricles. left ventricular hypertrophy with subaortic stenosis. The rest of heart and coronary arteries without pathological findings  valves. Microscopic examination revealed hypertrophy in cardiac muscle fibers, pulmonary edema and severe systemic congestion.  **Conclusions**: Bifid apex is an extremely rare find, with only four cases described in the literature: three of them associated with other cardiac malformations in the context of congenital heart diseases surgically treated (3, 17 and 34 years) and one (25 years ) sudden death associated with adverse drug (methadone and alprazolam) reaction. Their persistence is due to alterations in the interventricular septum formation during embryonic development. It has been seen in knock-out mice with partial deletion in the long arm of chromosome 11 loss of the gene encoding the ETS-1 protein (a member of the ETS family of transcription factors) that plays an important role in developing vascular and angiogenesis. | |  |  |  |  | | --- | --- | | **CONTACT** | | | Name: | **ISABEL** | | Lastname: | **IZQUIERDO MACIAN** | | E-mail: | **izmacian@gmail.com** | | Country: | **España** | | Institution | **DEPARMENT OF PEDIATRICS. HOSPITAL LA FE. VALENCIA** | | Cellphone: | **0034 657 64 99 36** | | City: | **Valencia** | |