

# Relevant definitions on Brugada Syndrome patients and their families.

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- I) **Aborted Cardiac Arrest (ACA):** is defined as loss-of-consciousness due to an unexpected circulatory arrest with ECG/Holter-documented arrhythmia (VT/VF or bradyarrhythmia such as atrio-ventricular block). (1;2)
- II) **Sudden Arrhythmic Death (Syndrome) (SAD[S]):** Unexplained sudden death occurring in an individual older than 1 year with negative pathological and toxicological assessment. Note: Synonymous with “autopsy-negative sudden unexplained death”. Those cases are referred to as sudden arrhythmogenic deaths (SAD). In cases of SAD, genetic examination, so-called molecular autopsy, could help to determine the cause of death (3).
- III) **Sudden Cardiac Arrest (SCA):** Sudden cessation of cardiac activity with hemodynamic collapse, typically due to sustained ventricular arrhythmia.
- IV) **Sudden Cardiac Death (SCD):** Death that occurs within 1 hour of onset of symptoms in witnessed cases, and within 24 hours of last being seen alive when it is unwitnessed. (4)
- V) **Sudden Unexplained Death (Syndrome) (SUD[S]):** Unexplained sudden death occurring in an individual older than 1 year.
- VI) **Sudden Unexplained Death in Epilepsy (SUDEP):** Sudden and unexpected, nontraumatic and nondrowning death of a person with epilepsy, without a toxicological or anatomical cause of death detected during the postmortem examination.

VII) **Sudden Unexplained Death in Infancy (SUDI):** Unexplained sudden death occurring in an individual younger than 1 year with negative pathological and toxicological assessment (5). In other words, is the sudden and unexpected death of an apparently healthy infant occurring within the first year of life where the cause is not immediately obvious. Note: Synonymous with “Sudden Unexplained Infant Death” (SUID) To reduce baby's risk of SUDI, always put the baby to sleep on their back. Make sure that the baby's face and head remains uncovered during sleep. Do not expose the baby to tobacco smoke before or after birth, give the baby their own safe sleeping environment (safe cot, safe mattress, safe bedding). For the first six to twelve months of life, this should be located in the same room as the adult caregiver. Breastfeed the baby if you can. Breastfeeding reduces a baby's risk of SUDI by more than half.

**Note: Sudden infant death syndrome (SIDS)** Due to inconsistencies as a diagnostic term of SIDS, SUID was introduced. SUID includes SIDS, accidental suffocation/asphyxia, and deaths due to uncertain circumstances. SUID frequently occurs during sleep, and it is the leading cause of death in infants one to twelve months of age in the United States.

## **References**

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