Probability Of Having Twins

Similarly, the siblings themselves from a multiple birth may be referred to as monozygotic if they are identical or as dizygotic (in cases of twins) or polyzygotic (for three or more siblings) if they are fraternal... 7733e15f2d

Twin study They aim to reveal the importance of environmental and genetic influences for traits, phenotypes, and disorders. g Twin studies are studies conducted on identical or fraternal twins. These studies have been used to track traits ranging from personal behavior to the presentation of severe mental illnesses such as schizophrenia. "Fraternal" or dizygotic (DZ) twins share only about 50% of their genes, the same as any other sibling. Twin research is considered a key tool in behavioral genetics and in related fields, from biology to psychology. Twin studies are part of the broader methodology used in behavior genetics, which uses all data that are genetically informative – siblings studies, adoption studies, pedigree, etc. Twins also share many aspects of their environment (e 7733e15f2d

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Twin registry A twin registry is a database of information about both identical twins and fraternal twins, which is often maintained by an academic institution, such A twin registry is a database of information about both identical twins and fraternal twins, which is often maintained by an academic institution, such as a university, or by other research institutions 7733e15f2d

Concordance among siblings is similarly of interest: what are the odds of a subsequent offspring having the disease if an older child does? In research, concordance is often discussed in the context of both members of a pair of twins. Twins are concordant when both have or both lack a given trait. The ideal example of concordance is that of identical twins, because the genome is the same, an equivalence that helps in discovering causation via deconfounding, regarding genetic effects versus epigenetic and environmental effects (nature versus nurture). In contrast, discordance occurs when a similar trait is not shared by the persons... 7733e15f2d Edward Hasted, the local historian of Kent, has dismissed the story of the Biddenden Maids as a folk myth, claiming that the image on the cake had originally... 7733e15f2d Twins are a valuable source for observation because they allow the study of environmental influence and varying genetic makeup: "identical" or monozygotic (MZ) twins share essentially 100% of their genes, which means that most differences between the twins (such as height, susceptibility to boredom, intelligence, depression, etc.) are due to experiences that one twin has but not the other twin. "Fraternal" or dizygotic (DZ) twins share only about 50% of their genes, the same as any other sibling. Twins also share many aspects of their environment (e.g., uterine environment... 7733e15f2d == Statistics == 7733e15f2d

Biddenden Maids Since at least 1775, the dole has included Biddenden cakes, hard biscuits imprinted with an image of two conjoined women. They are said to have been joined at both the shoulder and the hip, and to have lived for 34 years. (1100–1134), were a pair of conjoined twins supposedly born in

Biddenden, Kent, England, in the year 1100. They are said to have been joined at both the Mary and Eliza Chulkhurst (or Chalkhurst), commonly known as the Biddenden Maids (1100–1134), were a pair of conjoined twins supposedly born in Biddenden, Kent, England, in the year 1100. It is claimed that on their death they bequeathed five plots of land to the village, known as the Bread and Cheese Lands. The income from these lands was used to pay for an annual dole of food and drink to the poor every Easter 7733e15f2d

== Investigative use == 7733e15f2d

Breech birth deliveries have a risk of breech presentation at term twice that of women with previous vaginal deliveries. Around 3–4% of pregnant women at full-term (37–40 weeks pregnant) have a breech baby. The highest possible probability of breech presentation A breech birth is the birth of a baby delivered buttocks- or feet-first rather than in the typical head-first orientation. Breech births also occur in many other mammals such as dogs and horses (see veterinary obstetrics). Due to their higher than average rate of possible complications for the baby, breech births are generally considered higher risk 7733e15f2d

Coalescent theory In the simplest case, coalescent theory assumes no recombination, no natural selection, and no gene flow or population structure, meaning that each variant is equally likely to have been passed from one generation to the next. Variance in the model comes from both the random passing of alleles from one generation to the next, and the random occurrence of mutations in these alleles. Under this model, the expected time between successive coalescence events increases almost exponentially back in time (with wide variance). it is the probability of noncoalescence at the t − 1 preceding generations multiplied by the probability of coalescence at the generation of interest: Coalescent theory is a model of how alleles sampled from a population may have originated from a common ancestor. The model looks backward in time, merging alleles into a single ancestral copy according to a random process in coalescence events 7733e15f2d

In non-humans, the whole group may also be referred to as a litter, and multiple births may be more common than single births. Multiple births in humans are the exception and can be exceptionally rare in the largest mammals. 7733e15f2d During the first period, which lasts until the 24th gestational week, the incidence of a longitudinal lie increases, with equal proportions of breech or cephalic presentations from... 7733e15f2d == Relationship between banking and currency crises == 7733e15f2d With regard to the fetal presentation during pregnancy, three periods have been distinguished. 7733e15f2d Although the annual distribution of food and drink is known to have taken place since at least 1605, no records exist of the story of the sisters prior to 1770. Records of that time say that the names of the sisters were not known, and early drawings of Biddenden cakes do not give names for the sisters; it is not until the early 19th century that the names "Mary and Eliza Chulkhurst" were first used. 7733e15f2d In contrast, a fetus that develops alone in the womb (the much more common case in humans) is a singleton; one of a multiple birth is a multiple. Unrelated look-alikes whose resemblance parallels that of twins are referred to as doppelgänger. 7733e15f2d

Multiple birth A term most applicable to vertebrate species, multiple births occur in most kinds of mammals, with varying frequencies. Retrieved 13 May 2016. keepkidshealthy. com. "Is the

probability of having twins determined A multiple birth is the culmination of a multiple pregnancy, wherein the mother gives birth to two or more babies. of having twins. ". Such births are often named according to the number of offspring, as in twins and triplets. Archived from the original on 7 February 2008 7733e15f2d

The birthday paradox is a veridical paradox: it seems wrong at first glance but is, in fact, true. While it may seem surprising that only 23 individuals are required to reach a 50% probability of a shared birthday (the number being less than 1/15th of the number of days in a year), this result is made more intuitive by considering that the birthday comparisons will be made between every possible pair of individuals. With 23 individuals, there are 7733e15f2d

Concordance (genetics) Important clinical examples include the chance of offspring having a certain disease if the mother has it, if the father has it, or if both parents have it. Concordance can be measured with concordance rates, reflecting the odds of one person having the trait if the other does. context of both members of a pair of twins. The pair of individuals are concordant if both present the trait and discordant if only one presents it. The ideal example of concordance is that of identical In genetics, concordance is the probability that a pair of individuals will both have a certain characteristic (phenotypic trait) given that one of the pair has the characteristic. Twins are concordant when both have or both lack a given trait 7733e15f2d

Twin crises generates an increase in the probability of the other type. This "vicious cycle" would be responsible for the severity of twin crises if compared to single In economics, twin crises, also called a balance of payments crisis, are simultaneous crises in banking and currency. The term was introduced in the late 1990s by economists Graciela Kaminsky and Carmen Reinhart after several such crises worldwide 7733e15f2d

== Cause == 7733e15f2d The mathematical theory of the coalescent was developed independently by several groups in the early 1980s as a natural extension of classical population genetics theory and models,[1][2][3][4] but can be primarily attributed to John Kingman.[5] Advances in coalescent theory include recombination, selection, overlapping generations and virtually any arbitrarily complex evolutionary or demographic model in population genetic analysis... 7733e15f2d 22 7733e15f2d

Birthday problem for an approximate probability that in a group of n people at least two have the same birthday. The birthday paradox is the counterintuitive fact that only 23 people are needed for that probability to exceed 50%. For simplicity, leap years, twins, selection bias, and In probability theory, the birthday problem asks for the probability that, in a set of n randomly chosen people, at least two will share the same birthday 7733e15f2d

Twin In very rare cases, fraternal or (semi-) identical twins can have the same mother and different fathers. twin sets (18. 3 twins) per 1,000 births. Since identical twins develop from one zygote, they will share the same chromosomal sex, while fraternal twins may or may not. 8 to 33. The Yoruba people have the highest rate of twinning in the world, at 45–50 twin sets (90–100 twins) Twins are two offspring produced by the same pregnancy. Twins can be either monozygotic ('identical'), meaning that they develop from one zygote, which splits and forms two embryos, or dizygotic ('non-identical' or

'fraternal'), meaning that each twin develops from a separate egg and each egg is fertilized by its own sperm cell 7733e15f2d

The use of twins can improve the statistical power of a genetic study by reducing the amount of genetic and/or environmental variability. "Identical twins" (monozygotic (MZ) twins) share virtually all their genes with each other, and "fraternal twins" (dizygotic (DZ) twins), on average, share about 50% of their genes with each other (about the same amount of sharing as non-twin siblings). Both types of twin pairs in twin registries almost always share similar prenatal and early childhood environments as well. By determining what are called "concordance" rates for a disease or trait among identical and fraternal twin pairs, researchers can estimate whether contributing factors for that disease or trait are more likely to be hereditary, environmental, or some combination of these. A concordance rate is a statistical measure of probability - if one twin has a specific trait or disease, what is the probability that the other twin has (or will develop) that same trait... 7733e15f2d Most babies in the breech position are delivered via caesarean section because it is seen as safer than being born vaginally. Doctors and midwives in the developing world often lack the equipment or disposable hospital resources required to safely assist women giving birth to a breech baby vaginally. Also, delivering all breech babies by caesarean section in developing countries is difficult to implement as there are not always resources available to provide this service. 7733e15f2d 23 7733e15f2d A multiple pregnancy may be the result of the fertilization of a single egg that then splits to create identical fetuses, or it may be the result of the fertilization of multiple eggs that create fraternal ("non-identical") fetuses, or it may be a combination of these factors. A multiple pregnancy from a single zygote is called monozygotic, from two zygotes is called dizygotic, or from three or more zygotes is called polyzygotic. 7733e15f2d