

# DISORDERS CAUSED BY RECESSIVE ALLELS

## CYSTIC FIBROSIS.

- CF is a genetic disorder which affects about 1 in 1600 in the UK.
- caused by an inherited defective gene. Recessive gene.
- currently no cure or effective treatment
- produces a lot of thick sticky mucus in the lungs, which has to be removed by massage.
- excess mucus also occurs in the pancreas causing digestive problems
- the blockage in our passages causes a lot of chest infections
- Physiotherapy and antibiotics clear them up but slowly the sufferer becomes more and more ill.

Preview from Notesale.co.uk

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## SICKLE CELL ANAEMIA

- causes red blood cells to be shaped like sickles.
- they get stuck in capillaries which deprives cells of oxygen.
- painful disorder, risk of dying young.
- rare in Britain, more common in Africa.
- this is because carriers of the recessive allele are more immune to malaria. Being a carrier increases chance of survival, even though offspring may suffer from sickle cell anaemia.



normal cell



sickle cell