

0	1
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Cystic fibrosis is an inherited disorder that can seriously affect health.

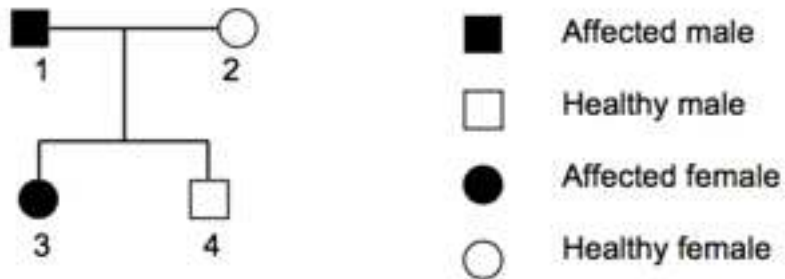
Which **one** of these is affected by cystic fibrosis?

0	1	.	1
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Draw a ring around your answer [1 mark]

blood **cell membranes** **kidneys** **nervous system**

The diagram shows the inheritance of cystic fibrosis in a family. The allele that produces cystic fibrosis is recessive.



0	1	.	2
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Explain why person 3 inherited cystic fibrosis.

[2 marks]

0	1	.	3
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Explain why person 4 did **not** inherit cystic fibrosis

[2 marks]

0	1	.	4
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Couple 1 and 2 know there is a risk that their next baby could have cystic fibrosis.

Embryos can be screened for the allele that causes cystic fibrosis. Many people support the screening of embryos, but others do not.

Suggest one reason why many people support the screening of embryos for the cystic fibrosis allele.

[1 mark]

0	1	.	5
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Suggest one reason why many people are against the screening of embryos for the cystic fibrosis allele.

[1 mark]
