

# Activity sheet 3 – Treating bone marrow disorders

Here are ten brief descriptions of a variety of things that can go wrong with the body. Ring the ones that you think are bone marrow disorders.



Give written reasons for your decisions.

**1** Read descriptions A – J below. Circle those disorders you think could be treated by bone marrow donation.  
*Remember: Stem cells in bone marrow produce new blood cells, which mature and then are released into the blood stream.*

**a** The overproduction of one type of blood cell that crowds out and decreases the production of other types of blood cell.

**b** Acute and highly contagious viral disease marked by distinct red spots followed by a rash.

**c** Inflammation of the bronchial tubes.

**d** Blood cells that don't mature or function properly.

**e** One type of blood cell that becomes predominant because its old cells don't die at a normal rate.

**f** Viral infection of the respiratory tract caused by one of three strains of the influenza virus.

**g** Too much glucose (sugar) in the blood.

**h** Insufficient iron available to produce normal red blood cells.

**i** Loss of blood cells because they are too fragile.

**j** A narrowing of the arteries which slows the flow of blood to the heart.

(Answers on page 20 of teacher's book)

**2** Describe how you identified those that could be treated by receiving a bone marrow transplant.

**3** Try and identify the disorders / diseases that you did not think were bone marrow disorders.