Blood supply of the heart

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The right coronary artery supplies the **right atrium** and the **right ventricle**. It supplies both the **sinoatrial node** and the **atrioventricular node** in most people. It supplies the **bottom portion of both ventricles and back of the septum**

Dysfunction of the sino-atrial and AV nodes may have been the result of ischemic damage during the infarction.

The left coronary artery gives the following branches

**Circumflex artery** - supplies blood to the **left atrium, side and back of the left ventricle**

**Left Anterior Descending artery (Anterior interventricular artery)** - supplies the **front and bottom of the left ventricle and the front of the septum**
Veins of the heart

Anterior Cardiac veins
Are several small veins which drain the anterior wall of the right ventricle and open into the right atrium.

Venae cordis minimae
Are small veins draining much of the heart wall. They open directly into the cavities of the heart.

Tributaries of the coronary sinus
1- Great cardiac vein
2- Middle cardiac vein
3- Small cardiac vein
4- Left posterior ventricular vein
5- Oblique vein
Cardiac veins:

- Anterior cardiac veins
- Oblique vein
- Left posterior Ventricular vein
- Great cardiac vein
- Anterior interventricular vein
- Coronary sinus
- Small cardiac vein
- Middle cardiac vein
- Right marginal vein