Regulation of Erythropoiesis

Physiological Stress due to a decreased oxygen carrying capacity of blood may be caused by:

- Reduced \( O_2 \) is atmosphere
- Inadequate hemoglobin
- Low red blood cell (erythrocyte) count
- ETC . . .

Afferent Pathway

(Blood by way of its oxygen carrying capacity)

Control Center

Efferent Pathway: Blood Stream

\((Erythropoietin Secreted)\)

Effector

\((Hematopoietic Stem Cells in Red Bone Marrow stimulated)\)

Effect

\((Erytrocyte Count increases)\)

Homeostasis Restored

\((O_2 Carrying Capacity of blood increases)\)