Normal Blood Cell Production



- Normal marrow is crowded with good cells
- Chemical signals tell the marrow to produce more red cells, white cells, or platelets as you need them

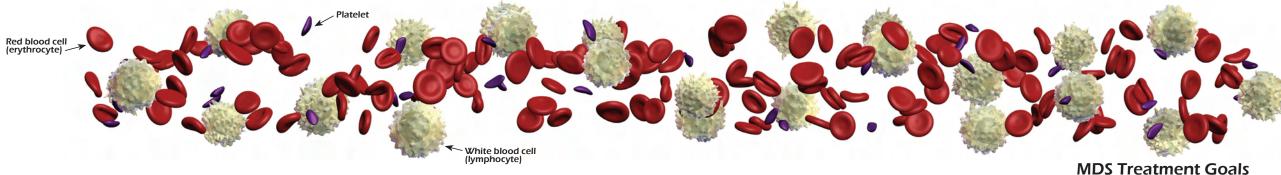


- Normal hematocrits are:
- 36-46% for women
- 40-52% for men
- Normal hemoglobin is: • 12-16 g/dL for women
- 14-18g/dL for men
- Normal WBC is:
- 3.200 10.000
- Normal platelets are: • 150,000-400,000



Red cells live and function for 120 days







Treatment Cycle

Abnormal red blood cells

Immature blood cell (blast

Treatment Cycle

Treatment Cycle

Treatment Cycle

Longer life

4 cycles

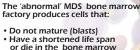
Maintain response through

Better quality of life

Decreased or no transusions

 Improved bone marrow function Response may require more than

continued treatment



or die in the bone marrow Are misshapen or 'dysplastic

Low blood cell counts are

• Fatigue due to anemia

responsible for the symptoms MDS patients experience:

Infection (low WBC count)

• Bleeding (low platelet count)

• Treatment destroys cells in the bone marrow (normal and abnormal)

Erythrocyte

- This makes room for more new healthy cells
- When treatment begins: A drop in counts frequently occurs
- It should be managed by your physician



If you respond to treatment your bone marrow will:

- Look more like normal marrow
- Produce many more





Every patient responds differently to treatment

At least 4 treatment cycles are necessary

Some patients may require more than 4 cycles



Abnormal Blood Cell Production in MDS





