THE IMPACT OF CHEMOTHERAPY-INDUCED MYELOSUPPRESSION

While chemotherapy remains the cornerstone of treatment for most cancers, it does not differentiate between healthy cells and cancer cells—it damages both, including important stem cells in the bone marrow. These stem cells normally develop into healthy red blood cells, white blood cells, and platelets.\(^3\)\(^5\)

WHAT IS MYELOSUPPRESSION?

A sometimes serious side effect in chemotherapy, myelosuppression is the result of damage to bone marrow stem cells. Myelosuppression can adversely affect patient health and quality of life and may compromise treatment outcomes.\(^3\)\(^6\)\(^11\)

SYMPTOMS, SIDE EFFECTS, AND COMPLICATIONS

Myelosuppression may cause a range of potential side effects, which may then stress patients and the healthcare system.

Myelosuppression puts patients at increased risk of infection, anemia, fatigue, and bleeding\(^3\)\(^6\).

Immune cell damage may decrease the ability of the immune system to fight cancer and infections\(^2\)\(^11\).

This side effect can result in dosage delays and reductions, which may compromise the efficacy of chemotherapy regimens and burden the healthcare system\(^8\)\(^10\)\(^11\).

REAL-WORLD IMPACT

Myelosuppression can have a substantial impact on people’s lives and treatment:

In an online survey of 301 patients with solid tumors, nearly 9 in 10 (88%) patients reported that myelosuppression has a moderate to major impact on their quality of life\(^11\).

Nearly 2 in 3 patients (64%) reported chemotherapy dose modifications (delays, reductions, discontinuation) due to myelosuppression\(^11\).

Nearly 1 in 3 patients (30%) felt their oncologist did not understand their discomfort caused by myelosuppression\(^11\).

MANAGING MYELOSUPPRESSION

Patients experiencing myelosuppression may be treated with medication adjustments, supportive care, and rescue interventions as needed.

REFERENCES:

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