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Blood and Marrow Transplant Certified Nurse (BMTCN)

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Question: 1

Which of the following is a common adverse effect of total body irradiation (TBI) as part of the preparative regimen for hematopoietic stem cell transplantation?

- A. Hypercalcemia
- B. Pulmonary fibrosis
- C. Thrombocytopenia
- D. Hypoglycemia

Answer: B

Explanation: Pulmonary fibrosis is a common adverse effect of total body irradiation (TBI) in the context of hematopoietic stem cell transplantation. TBI can cause damage to lung tissue, leading to the development of fibrosis and impaired lung function. Regular monitoring and supportive care are important to manage this complication.

Question: 2

Which of the following is an important aspect of late post-transplant management and education?

- A. Blood type compatibility testing
- B. Genetic counseling
- C. Fertility preservation options
- D. Allogeneic rescue transplant

Answer: B

Explanation: Genetic counseling is an important aspect of late post-transplant management and education. Transplant recipients and their families may

benefit from genetic counseling to understand the genetic implications of the transplant, potential recurrence risks, and family planning options. This can help them make informed decisions regarding their future health and reproductive choices.

Question: 3

Which of the following is a key component of early post-transplant management and education?

- A. Maintenance chemotherapy
- B. Infection prevention and management
- C. Long-term follow-up planning
- D. Donor lymphocyte infusion

Answer: B

Explanation: Infection prevention and management are key components of early post-transplant management and education. Transplant recipients are at increased risk of infections due to immunosuppression and the impact of the preparative regimen. Proper infection prevention measures, early detection, and prompt treatment are vital to minimize infectious complications.

Question: 4

Which of the following is a commonly used mobilization agent for peripheral blood stem cell collection?

- A. Filgrastim (G-CSF)
- B. Etoposide
- C. Cyclophosphamide
- D. Methotrexate

Answer: A

Explanation: Filgrastim (G-CSF) is a commonly used mobilization agent for peripheral blood stem cell collection. It stimulates the production and release of hematopoietic stem cells from the bone marrow into the peripheral blood. This allows for easier collection and subsequent infusion in the transplant recipient.

Question: 5

Which of the following is a long-term complication commonly associated with chronic graft-versus-host disease (GVHD)?

- A. Hypertension
- B. Diabetes mellitus
- C. Osteoporosis
- D. Hyperthyroidism

Answer: C

Explanation: Osteoporosis is a long-term complication commonly associated with chronic graft-versus-host disease (GVHD). Chronic GVHD can affect bone health and lead to decreased bone density, increasing the risk of fractures and osteoporosis. Regular monitoring, adequate calcium and vitamin D intake, and appropriate interventions are important in the management of this complication.

Question: 6

Which of the following is the primary determinant of HLA compatibility between a donor and a recipient in hematopoietic stem cell transplantation?

- A. HLA-A antigens
- B. HLA-B antigens

- C. HLA-DR antigens
- D. HLA-DQ antigens

Answer: C

Explanation: HLA-DR antigens are the primary determinants of compatibility in hematopoietic stem cell transplantation. These antigens are cell surface proteins encoded by genes within the human leukocyte antigen (HLA) complex. Matching HLA-DR antigens between a donor and a recipient is crucial for minimizing the risk of graft rejection and graft-versus-host disease (GVHD).

Question: 7

Which of the following is a professional performance expectation for a BMTCN (ONCC Blood & Marrow Transplant Certified Nurse)?

- A. Performing stem cell collection procedures
- B. Prescribing immunosuppressive medications
- C. Participating in research studies
- D. Administering chemotherapy agents

Answer: C

Explanation: Participating in research studies is a professional performance expectation for a BMTCN (ONCC Blood & Marrow Transplant Certified Nurse). BMTCNs are expected to actively engage in evidence-based practice and contribute to advancements in the field of blood and marrow transplantation. This includes participating in research studies, promoting best practices, and sharing knowledge with colleagues and the wider professional community.

Question: 8

Which of the following is a common quality-of-life concern for long-term survivors of hematopoietic stem cell transplantation?

- A. Hair loss
- B. Nausea and vomiting
- C. Neuropathy
- D. Fatigue

Answer: D

Explanation: Fatigue is a common quality-of-life concern for long-term survivors of hematopoietic stem cell transplantation. Many survivors experience persistent fatigue even years after the transplant. This can have a significant impact on their overall well-being and daily functioning. Supportive care measures and appropriate interventions are important in managing fatigue and improving quality of life.

Question: 9

Which of the following is an essential component of the informed consent process for hematopoietic stem cell transplantation?

- A. Describing potential complications in detail
- B. Guaranteeing a successful outcome
- C. Withholding information about alternative treatment options
- D. Obtaining consent from only the recipient

Answer: A

Explanation: Describing potential complications in detail is an essential component of the informed consent process for hematopoietic stem cell transplantation. The informed consent process involves providing

comprehensive information about the procedure, potential risks and benefits, alternative treatment options, and the expected outcomes. It is important to ensure that patients and their families have a clear understanding of the potential complications involved before giving their consent.



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