



A Guide to Bone Marrow Transplantation

Hans-Joachim Deeg, Hans-Georg Klingemann, Gordon L. Phillips

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In the late 1940s investigators observed that mice given supralethal doses of total body irradiation were protected by infusion of viable spleen or marrow cells following irradiation, and that this was accomplished by hemopoietic reconstitution with donor cells as proven using genetic markers. If a similar approach could be applied to humans, it should be possible to treat leukemia patients with any dose of chemoradiotherapy as far as nonmarrow toxicity permitted, and then rescue them by marrow transplantation. Early clinical attempts were generally unsuccessful, mostly due to a lack of knowledge of histocompatibility antigens and appropriate supportive care. These areas developed rather quickly during the 1960s, and for almost two decades now clinical marrow transplantation has been carried out with increasing success. After initially using only bone marrow from HLA identical siblings, the field has expanded rapidly to incorporate HLA nonidentical related donors, and recently even marrow from unrelated volunteer donors. Furthermore, since for numerous patients who otherwise could benefit from transplantation a donor cannot be identified, there has been a growing interest in using the patient's own (autologous) bone marrow. Our understanding of the principles of transplantation and our knowledge of the potential risks and benefits have quickly grown. At times it is difficult, however, to decide what is the best option for a given patient.

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