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On the Cover: This illustration shows mononuclear cell (MNC) isolation from bone marrow and peripheral blood after treatment with cell mobilizing agents, isolation of CD34-positive (CD34+) cells by immune-based magnetic cell sorting, and injection of the purified isolated cells into ischemic organs. Future studies should investigate in vitro rejuvenating techniques, which could increase the potency of CD34+ cells for autologous stem cell transplantation. From the review article by Marvasti et al., pages 1311-1321 of this issue.

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