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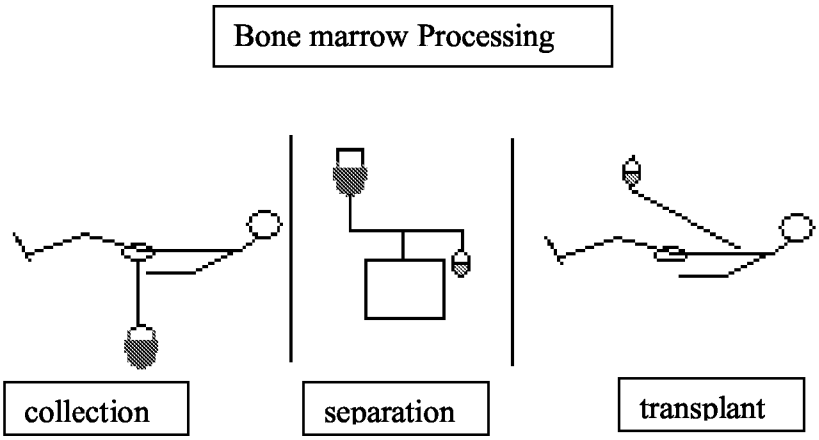
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(54) **Title:** INTEGRATED SYSTEM FOR COLLECTING, PROCESSING AND TRANSPLANTING CELL SUBSETS, INCLUDING ADULT STEM CELLS, FOR REGENERATIVE MEDICINE



(57) **Abstract:** A system for the extraction, collection, processing and transplantation of cell subsets, including adult stem cells and platelets, in particular for tissue repair in regenerative medicine, comprises a set of disposable fluid- transport elements that are pre-connected or that include aseptic connectors for making interconnections between them in an aseptic manner or are adapted to be aseptically connected. The set usually includes three kits of disposable sterile elements, a collection kit, a processing kit, and a transplantation kit packaged in a blister pack on a support such as a tray, having one compartment for receiving each inter-connectable kit of the set. The set includes an extracting device, for example including a needle for bone puncture or vein puncture, for extracting bone marrow or other sources of cell subsets from a patient.

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