Lab Dept: Flow and Immunology

Test Name: CD34 ABSOLUTE COUNT

General Information

Lab Order Codes:	CD34U
Synonyms:	CD34 Hematopoietic Stem Cell Count
CPT Codes:	86367 – Stem cells, total count
Test Includes:	Enumeration of hematopoietic progenitor stem cells using a combination of CD45/CD34 monoclonal antibodies. Viability of CD34 positive cells is also assessed.

Logistics

Test Indications:	Flow cytometric evaluation of CD34+ cell level is necessary for measuring the hematopoietic progenitor cells in dose requirement protocols of stem cell transplantation. Quantification of CD34+ cells is also used during mobilization of hematopoietic cells and leukophoresis procedures. The total number of CD34+ cells collected during leukophoresis can be estimated.
Lab Testing Sections:	Flow and Immunology - Sendouts
Referred to:	Fairview University Diagnostic Laboratories (Test: LAB8001)
Phone Numbers:	MIN Lab: 612-813-6280 STP Lab: 651-220-6550
Test Availability:	Testing is performed Mon-Fri 08:00-18:00. If testing is needed outside of scheduled hours, contact the Flow Cytometry lab at 612-273-5248.
Turnaround Time:	1-2 days
Special Instructions:	**Do not** collect specimens on Friday after 1200 or on Saturday. Specimens must arrive at Fairview within 24 hours of collection. Provide diagnosis, age, collection date and time, specimen type, and any product information.

Specimen

Specimen Type:	Whole blood (Alternate: Bone Marrow)
Container:	Lavender top (EDTA) tube for blood Sterile container for bone marrow

Draw Volume:	3 mL (Minimum: 1 mL) blood $10x10^6$ processed bone marrow
Processed Volume:	Same as Draw Volume.
Collection:	Aseptic collection. Mix specimen well by gentle inversion.
Special Processing:	Lab Staff: **Do Not** centrifuge. Store specimens in the refrigerator. Ship STAT at room temperature. Must arrive within 24 hours of collection. Please contact Flow Cytometry lab at 612-273-5248 prior to sending specimen.
Patient Preparation:	Routine blood collection
Sample Rejection:	Improper specimen collection of handling; clotted specimen; specimen received more than 24 hours after collection; mislabeled or unlabeled specimen

Interpretive

Reference Range:	N/A
Critical Values:	N/A
Limitations:	This test was developed and its performance characteristics determined by University of Minnesota Medical Center, Fairview Clinical Laboratories. It has not been cleared or approved by the US Food and Drug Administration. FDA does not require this test to go through premarket FDA review. This test is used for clinical purposes and should not be regarded as investigational or for research. This laboratory is certified under the Clinical Laboratory Improvement Amendments (CLIA) as qualified to perform high complexity clinical testing.
Methodology:	Single platform multi-color immunofluorescence and flow cytometry using ISHAGE guidelines
References:	Fairview University Diagnostic Laboratory January 2023