

1. Record Nr.	UNINA9910961526203321
Titolo	Cord blood : establishing a national hematopoietic stem cell bank program // Committee on Establishing a National Cord Blood Stem Cell Bank Program, Board on Health Sciences Policy ; Emily Ann Meyer, Kathi Hanna, and Kristine Gebbie, editors
Pubbl/distr/stampa	Washington, D.C., : National Academies Press, c2005
ISBN	9786610742110 9780309165174 0309165172 9781280742118 1280742119 9780309548625 0309548624
Edizione	[1st ed.]
Descrizione fisica	1 online resource (334 p.)
Altri autori (Persone)	MeyerEmily Ann HannaKathi E GebbieKristine M
Disciplina	362.17/84
Soggetti	Fetal blood - Transplantation Hematopoietic stem cells Blood banks Cord Blood Stem Cell Transplantation - standards Blood Banks - organization & administration Blood Grouping and Crossmatching - standards Hematopoietic Stem Cell Transplantation - ethics Hematopoietic Stem Cell Transplantation - legislation & jurisprudence Hematopoietic Stem Cell Transplantation - standards
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"This study was supported by contract number HHSH25056028 between the Department of Health and Human Services and the National Academy of Sciences"--T.p. verso.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	FrontMatter -- INDEPENDENT REPORT REVIEWERS -- PREFACE --

ACKNOWLEDGMENTS -- CONTENTS -- LIST OF TABLES, FIGURES, AND BOXES -- EXECUTIVE SUMMARY -- 1 INTRODUCTION -- 2 HEMATOPOIETIC STEM CELL TRANSPLANTATION -- 3 RESEARCH -- 4 UMBILICAL CORD BLOOD BANKS AND BANKING -- 5 ETHICAL AND LEGAL ISSUES -- 6 INVENTORY OF A NATIONAL CORD BLOOD STEM CELL BANK PROGRAM -- 7 RECOMMENDED STRUCTURE OF A NATIONAL PROGRAM -- APPENDIXES -- A METHODS SECTION: DATA COLLECTION AND ANALYSIS -- B SURVEY -- C SURVEY RESULTS -- D COMMISSIONED PAPER--POTENTIAL NONHEMATOPOIETIC USES FOR STEM CELLS IN CORD BLOOD--Margaret A. Goodell -- E COMMISSIONED PAPER--A COST-BENEFIT ANALYSIS OF INCREASING CORD BLOOD INVENTORY LEVELS--David H. Howard, Martin Maiers, Craig Kollman, Brent Logan, Loren Gragert, and Michelle Setterholm -- F COMMISSIONED PAPER--HLA OVERVIEW--Carolyn Katovich Hurley, Ph.D. -- G STATISTICAL REPORT--ANALYSIS OF THE NYBC, NMDP, AND NHLBI CORD BLOOD DATA--Robert Gibbons -- H BIOGRAPHICAL SKETCHES OF COMMITTEE MEMBERS AND STAFF -- ACRONYMS -- GLOSSARY -- INDEX.

Sommario/riassunto

With the potential for self-renewal and differentiation, the possibilities for stem cells are enormous. One specific type of stem cell, the hematopoietic progenitor cell (HPC), which is derived from umbilical cord blood (as well as adult bone marrow and mobilized peripheral blood), holds particular promise. To make the most of these HPCs, the Institute of Medicine was asked to consider the optimal structure for a national cord blood program and to address pertinent issues related to maximizing the potential of stem cell technology. Cord Blood: Establishing a National Hematopoietic Stem Cell Bank Program examines: The role of cord blood in stem cell transplantation The current status of blood banks already in existence The optimal structure for the cord blood program The current use and utility of cord blood for stem cell transplants The best way to advance the use of cord blood units and make them available for research Expert advice from leaders in the fields of economics, public health, medicine, and biostatistics combine to make this very timely and topical book useful to a number of stakeholders.
