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Circulatory System Mar 12 2021 "Discusses the parts that make up the human circulatory system, what can go wrong, how to treat those illnesses and diseases, and how to stay healthy"--Provided by publisher.

[The Circulatory System](#) Jun 26 2022 Introduces readers to the circulatory system; the functions of the heart, arteries and veins; the different types of blood cells; and common problems and diseases that affect the circulatory system.

The Circulatory System Nov 07 2020 Most people know that blood is always flowing through our bodies, but many don't know how or why this happens. Readers of this informative volume will learn about the circulatory system to find the answers. This essential system not only carries blood to and from the heart, but also brings oxygen, nutrients, and other materials around the body. Accessible text and eye-catching images support struggling readers in learning about this key concept from the upper elementary science curriculum.

Your Circulatory System Jun 14 2021 Presents information about the circulatory system, looking at the heart, blood, and blood vessels that compose it, as well as how they work together to keep the body healthy.

[The Circulatory System](#) May 14 2021 The body needs oxygen to survive. This title explores how the heart and blood vessels carry oxygen through the body. Easy-to-read text, vivid images, and helpful back matter give readers a clear look at this subject. Features include a table of contents, infographics, a glossary, additional resources, and an index. Aligned to Common Core Standards and correlated to state standards. Kids Core is an imprint of Abdo Publishing, a division of ABDO.

[Biomaterials and Devices for the Circulatory System](#) Jul 04 2020 Cardiovascular disease is one of the leading causes of death in the world today. Thanks to major advances in circulatory biomaterials and medical devices over the past few decades, many complications of this prevalent disease can be managed with great success for prolonged periods. Biomaterials and devices for the circulatory system reviews the latest developments in this important field and how they can be used to improve the success and safety in this industry. Part one discusses physiological responses to biomaterials with chapters on tissue response, blood interface and biocompatibility. Part two then reviews clinical applications including developments in valve technology, percutaneous valve replacement, bypass technologies and cardiovascular stents. Part three covers future developments in the field with topics such as nanomedicine, cardiac restoration therapy, biosensor technology in the treatment of cardiovascular disease and vascular tissue engineering. With its distinguished editors and international team of contributors Biomaterials and devices for the circulatory system is a vital reference for those concerned with bioengineering, medical devices and clinicians within this critical field. Reviews the latest developments in this important field and how they can be used to improve success and safety in the industry Both current clinical advances as well as future innovation are assessed taking a progressive view of the role of biomaterials in medical applications An examination of the physiological responses to biomaterials features tissue responses to implanted materials and strategies to improve the biocompatibility of medical devices

The Circulatory System Feb 20 2022 An accessible, topically arranged introduction to the cardiovascular system includes acronyms, a glossary, and a list of organizations and web sites.

[The Circulatory Story](#) Sep 29 2022 Your hardworking heart started beating eight months before you were born and continues to beat about one hundred thousand times a day. "By the time you're seventy years old, it will have beaten about 2.5 billion times." Find out the story behind each beat on a journey through the body's circulatory system.

[The Human Body](#) Nov 27 2019 Discusses the function of the circulatory system, explaining how it works with other body systems and how to keep the circulatory system healthy.

Blood Jun 02 2020 Introduces the circulatory system, describing what blood is and does and explaining how it moves about the body.

The Circulatory System Nov 19 2021 This interesting book about how we get bursts of energy from our food teaches readers about the circulatory system.

[The Circulatory System](#) Jan 28 2020 Describes the anatomy and function of the human circulatory system, and explains how and why the heart works to move blood around the body.

[The Circulatory System](#) Jun 22 2019 Our bodies contain a super highway of blood vessels that carry nutrients, waste, and much more from our heads to our toes. This network is the circulatory system! Beginning with a deep breath in, this fact-filled title uses easy-to-follow text and diagrams to allow readers to dive inside the body's circulatory system!

Circulation of the Blood May 02 2020 What actually happens when your heart goes lub-dub, lub-dub, lub-dub? Where does blood enter your heart? How exactly does it move through the heart and get to the different parts of your body? What are veins and arteries? And how does all this work with your lungs and digestive system? Every minute of every day, your blood is working its way all around your body, keeping you alive! Find out how, and so much more, in *Circulation of the Blood*.

The Complex Circulatory System Jan 22 2022 Developed by a pediatrician, this book focuses on the amazing design and functionality of the human body's circulatory system. You will discover amazing facts like: The human heart beats 100,000 times a day, and one drop of blood has 5 million red blood cells in it A timeline of important discoveries and innovators as well as key anatomical terms and concepts Discussions of disease and proper care for optimal health! The third book in the popular elementary anatomy series *God's Wondrous*

Machine, focuses on the heart, blood, and blood vessels that make up the body's circulatory system. Understanding the mechanics of this system in transporting nutrients, blood, chemicals, and more to cells within the body is key to understanding how it helps fight disease as well as maintain a properly balanced temperature. Readers learn how the deliberate design of their bodies enables it to function as it should, just as God meant for it to.

Vital Circuits Dec 09 2020 Most of us think about our circulatory system only when something goes wrong, but the amazing story of how it goes right--"magnificently right," as author Steven Vogel puts it--is equally worthy of our attention. It is physically remarkable, bringing food to (and removing waste from) a hundred trillion cells, coursing through 60,000 miles of arteries and veins (equivalent to over twice around the earth at the equator). And it is also intriguing. For instance, blood leaving the heart flows rapidly through the arteries, then slows down dramatically in the capillaries (to a speed of one mile every fifty days), but in the veins, on its way back to the heart, it speed up again. How? In *Vital Circuits*, Steven Vogel answers hundreds of such questions, in a fascinating, often witty, and highly original guide to the heart, vessels and blood. Vogel takes us through the realm of biology and into the neighboring fields of physics, fluid mechanics, and chemistry. We relive the discoveries of such scientists as William Harvey and Otto Loewi, and we consider the circulatory systems of such fellow earth-dwellers as octopuses, hummingbirds, sea gulls, alligators, snails, snakes, and giraffes. Vogel is a master at using everyday points of reference to illustrate potentially daunting concepts. Heating systems, kitchen basters, cocktail parties, balloons--all are pressed into service. And we learn not only such practical information as why it's a bad idea to hold your breath when you strain and why you might want to wear support hose on a long airplane flight, but also the answers to such seemingly unrelated issues as why duck breasts (but not chicken breasts) have dark meat and why dust accumulates on the blades of a fan. But the real fascination of *Vital Circuits* lies neither in its practical advice nor in its trivia. Rather, it is in the detailed picture we construct, piece by piece, of our extraordinary circulatory system. What's more, the author communicates not just information, but the excitement of discovering information. In doing so, he reveals himself to be an eloquent advocate for the cause of science as the most interesting of the humanities. Anyone curious about the workings of the body, whether afflicted with heart trouble or addicted to science watching, will find this book a goldmine of information and oelight.

The Circulatory System Mar 24 2022 Describes the various parts of the human circulatory system and explains how and why blood is circulated throughout the body.

Circulatory System Aug 05 2020 Describes the circulatory system of the human body, including how blood flows from the heart to the rest of the body, why the system is vital to body function, and how to keep it healthy with diet and exercise.

The Circulatory System, the Skin, and the Cutaneous Organs of the Domestic Mammals Oct 19 2021

The Circulatory System Aug 24 2019 Describes the components of the circulatory system, how the heart functions to pump blood through the human body, and cardiovascular diseases and disorders.

Cardiovascular Mathematics Jul 24 2019 Mathematical models and numerical simulations can aid the understanding of physiological and pathological processes. This book offers a mathematically sound and up-to-date foundation to the training of researchers and serves as a useful reference for the development of mathematical models and numerical simulation codes.

Circulatory System Sep 17 2021 The circulatory system is made up of five parts: the heart, the lungs, and the capillaries. The circulatory system is closed. The blood is not allowed to enter the circulatory system during circulation. The arterial system is made up of arteries and arterioles, while the venous portion consists of veins and venules. The arterial system carries blood from the heart to the lungs. The veins transport deoxygenated blood back to the heart.

Programmed Approach to the Circulatory System Dec 29 2019

The Circulatory System Feb 08 2021 The circulatory system pumps blood to all of the different parts of the body, the blood carries food and oxygen that the rest of the body needs to survive. This system consists of the heart, veins, arteries and much more.

The Circulatory System Sep 05 2020 Describes the various parts of the human circulatory system and explains how and why blood is circulated throughout the body.

Survive! Inside the Human Body, Vol. 2 Aug 29 2022 In this volume, our heroes Geo and Dr. Brain face hostile white blood cells, Phoebe's powerful heartbeat, and a bruise that threatens to suck them out of the bloodstream and leave them stranded forever! As you follow their fast-paced comic adventure through Phoebe's blood, heart, and lungs, you'll learn all about the human circulatory system. Have you ever wondered... --How your heartbeat keeps a steady pace? --Why your blood forms a scab after you get a cut or scrape? --How your body defends itself against bacteria and other intruders? --How children inherit their blood types from their parents? --How your muscles and brain get the oxygen and nutrients they need to survive? --How the body filters out toxins in food before they reach your bloodstream? For ages 8+

Translated by Army Chung

Learning About the Circulatory and Lymphatic Systems Jan 10 2021 The circulatory system runs through the body carrying oxygen and nutrients to our cells and removes waste. It's driven by the never-resting heart, which pumps blood through more than 60,000 miles of arteries and veins. The lymphatic system regulates the amount of liquid in the body among other tasks. Readers will learn about how together, these two systems help the body stay alive and fight invading bacteria and viruses.

Regulation of Tissue Oxygenation, Second Edition Jul 16 2021 This presentation describes various aspects of the regulation of tissue oxygenation, including the roles of the circulatory system, respiratory system, and blood, the carrier of oxygen within these components of the cardiorespiratory system. The respiratory system takes oxygen from the atmosphere and transports it by diffusion from the air in the alveoli to the blood flowing through the pulmonary capillaries. The cardiovascular system then moves the oxygenated blood from the heart to the microcirculation of the various organs by convection, where oxygen is released from hemoglobin in the red blood cells and moves to the parenchymal cells of each tissue by diffusion. Oxygen that has diffused into cells is then utilized in the mitochondria to produce adenosine triphosphate (ATP), the energy currency of all cells. The mitochondria are able to produce ATP until the oxygen tension or PO₂ on the cell surface falls to a critical level of about 4–5 mm Hg. Thus, in order to meet the energetic needs of cells, it is important to maintain a continuous supply of oxygen to the mitochondria at or above the critical PO₂. In order to accomplish this desired outcome, the cardiorespiratory system, including the blood, must be capable of regulation to ensure survival of all tissues under a wide range of circumstances. The purpose of this presentation is to provide basic information about the operation and regulation of the cardiovascular and respiratory systems, as well as the properties of the blood and parenchymal cells, so that a fundamental understanding of the regulation of tissue oxygenation is achieved.

Modeling the Heart and the Circulatory System Sep 25 2019 The book comprises contributions by some of the most respected scientists in the field of mathematical modeling and numerical simulation of the human cardiocirculatory system. The contributions cover a wide range of topics, from the preprocessing of clinical data to the development of mathematical equations, their numerical solution, and both in-vivo and in-vitro validation. They discuss the flow in the systemic arterial tree and the complex electro-fluid-mechanical coupling in the human heart. Many examples of patient-specific simulations are presented. This book is addressed to all scientists interested in the mathematical modeling and numerical simulation of the human cardiocirculatory system.

The Amazing Circulatory System Oct 07 2020 Explores the workings of the heart and circulatory system in the human body.

The Circulatory System Feb 29 2020 Explains the importance of blood and describes how it is circulated throughout the body.

The Circulatory System of Lymnaea Stagnalis Apr 12 2021

A Programmed Approach to the Circulatory System Mar 31 2020

The Circulatory System, Third Edition Oct 31 2022 Composed of the heart, blood vessels, and blood, the circulatory system delivers oxygen and nutrients to every tissue in the body. At the center of this incredibly complex system is the heart, a strong muscle that continuously pumps blood throughout the body. Striving to promote a basic understanding of the fundamental physical and biological principles underlying circulatory functions, *The Circulatory System, Third Edition* describes the anatomical features of the system and examines how it responds to a broad range of challenges, such as increased activity, the microgravity of space, and hemorrhage. Packed with full-color photographs and illustrations, this absorbing book provides students with sufficient background information through references, websites, and a bibliography.

20 Fun Facts About the Circulatory System May 26 2022 The circulatory system doesn't just move blood around the body. It moves nutrients, oxygen, hormones, and electrolytes to exactly where they need to go, from the brain to the feet. Every body system relies on the network of veins, arteries, and capillaries throughout the body. While important, the circulatory system is also incredible interesting! Readers learn the basics of blood cells and blood vessels in fun, surprising, and even gross facts on each page. Diagrams and full-color photographs aid readers' understanding and provide a close encounter with parts of the body they may never see.

How the Circulatory System Works Jul 28 2022 This book includes 10 lectures in a light, entertaining style, with each "lecture" building on the previous one - making it easy for the reader to comprehend the vastly complicated functions of the circulatory system. The length of the text has intentionally been kept short; it is neither exhaustively complete nor over-simplified. It is enriched by details about basic biologic mechanisms and clever ways nature has solved a problem or achieved a result.

The Circulatory System Aug 17 2021 Discusses the function of the circulatory system and how it works, explaining how it works with other body systems and how to keep the circulatory system healthy.

The Circulatory System of Insects Apr 24 2022

The Circulatory System Oct 26 2019 This graphic nonfiction book introduces the circulatory system of the human body. The Building Blocks of Life Science volumes feature whimsical characters to guide young readers through topics exploring the human body systems. Full-page or full-spread diagrams detail the different parts of each body system. The science is as sound as the presentation is fun! The volumes include a glossary, an additional resource list, and an index. Several spreads in each volume are illustrated with photographs to help clarify concepts and facts.

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