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This article is about the circulatory system of animals. For plants, see blood vessel tissue. Some terms to redirect here. For an Ed Sheeran song, see Bloodstream. For a Youves album, see Cardiovascular. Organ system for spreading blood in animals The human circulatory sindicates oxidized blood carried in the arteries. Blue indicates degenerate blood carried in the serenity. Capillaries, which join the arteries and veins, and the lymph vessels are not displayed. IDsMESHD002319TA98A12.0.000TA23891FMA7161Intumic Terminology[Editing in Vessels are not displayed.]	• • • •
system, also called the cardiovascular system or the blood vessel system, It is an organ system that allows blood to distribute and transmit nutrients (such as amino acids and electrolytes), oxygen, carbon dioxide, hormones, and blood cells to and from cells in the body to prove	ide nourishing and help fight
diseases, stabilizing temperature and acidity, and maintaining home-or-stysis, a system of organs of humans (and other animals) responsible for transporting substances within the body called the circulatory system. It is further divided into the circulatory system and lymphatic circulatory system includes the lymphatic system, which circulates lymph. [1] The passage of the lymph takes much longer than that of blood is a fluid composed of plasma, red blood cells, white blood cells, platelets distributed by the heart through the vertebrae blood system.	, ,
oxygen and nutrients and wasting substances away from all the body tissues. The lymph node is actually recycled in excess blood plasma after it is filtered from the interstitial fluid (between cells) and returned to the lymphatic system. The cardiovascular system (from Latin wo includes blood vessels, the heart and blood vessels. [3] Lymph nodes, lymph nodes, and lymph vessels form the lymphatic system, which returns filtered blood plasma from the interstitial fluid (between cells) as lymph. The circulatory system of the blood is seen as having two	rds meaning cardiovascular)
circulation and a rye bloodstream. [4] While humans, as well as other vertebrae, have a closed cardiovascular system (i.e., blood never leaves the network of arteries, veins and gills), some invertebrate groups have an open cardiovascular system. The lymphatic system, on the	e other hand, is an open
system that provides an accessory path to excess inter-temporary fluids that need to be returned to the blood. [5] More primitive, diploblastic animal fillets lack circulatory systems. Many diseases affect the circulatory system. This includes cardiovascular diseases, which affect and lymph diseases that affect the lymphatic system. Cardiologists are medical professionals specializing in heart, and cardiology Specialize in operating on the heart and its surroundings. Blood vessel surgeons focus on other parts of the circulatory system. The structure of the	
Describes the heart, major veins and arteries built from body scans And a cross-part of a human artery The essential components of the human cardiovascular system are the heart, blood and blood vessels. [6] It includes pulmonary blood flow, looping through the lungs where	the blood is oxidized; And
the systemic circulation, looping through the rest of the body to provide oxidized blood. Systemic circulation can also be seen to function in two parts – macro-circuit and microcyclic. The average adult contains five to six liters (roughly 4.7 to 5.7 liters) of blood, and accounts for weight. [7] Blood consists of plasma, red blood cells, white blood cells, platelets. Also, the digestive system to provide the nutrients the system needs to keep the heart pumping. [8] Human cardiovascular systems are closed, meaning blood needs to be seen to function in two parts – macro-circuit and microcyclic. The average adult contains five to six liters (roughly 4.7 to 5.7 liters) of blood, and accounts for weight.	
network. In contrast, oxygen and nutrients are scattered across the layers of blood vessels and enter interstitial fluid, which carries oxygen and nutrients to target cells, carbon dioxide and debris in the opposite direction. The second component of the circulatory system, the lyn Arteries See also: Oxidized blood arterial tree enters the systemic bloodstream when leaving the left ventricle, through the aortic semiloner valve. The first part of the systemic circulation is the artery artery, a massive artery and thick walls. Aurata arches and gives branches the	
the body after passing through the opening of the abdominal babi of the diaphragm at the level of the thoracic ten vertebrae, it enters the abdomen. He later goes downstairs and delivers branches to the abdomen, pelvic, nanum and lower extremities. The arterial walls are elaborated as a second control of the abdomen, pelvic, nanum and lower extremities.	stic. This flexibility helps
maintain blood pressure throughout the body. When Aurata receives nearly five liters of blood from the heart, she recoils and is responsible for pulsating blood pressure. Furthermore, as smaller arteries, their elasticity continues to decrease and their compliance continues to ginto small passages called arteries and then into capillaries. The gills merge to bring blood to the lye system. [10] Veins Main article: Capillaries and veins merge into venules, which coalesce into veins. The vein system nourishes the two main veins: the excellent Cava Wona -	•
above the heart – and the inferior venom cava – which mainly drains tissues under the heart. These two large veins are empty into the right atrium of the heart. Veins Main Article Portal: General Vein Portal Is that the arteries from the heart branch into capillaries, which collect	veins that lead back to the
heart. Portal veins are slight exceptions to this. In humans the only significant example is the hepatic portal vith that combines capillaries around the digestive tract where the blood absorbs the various products of digestion; Instead of leading directly back to the heart, the liver a second naysm system in the liver. Main heart article: Heart view from the front of the heart draws oxidized blood to the lungs. The human heart has one atrium and one room per bloodstream, and with a systemic cycle and rye cycle there	•
atrium, left thymat, right atrium and right thym. The right atrium is the upper chamber of the heart. The blood returned to the right atrium is deoxygenated (poor in oxygen) and transferred to the right ventricle to be pumped through the pulmonary artery into the removal of carbon dioxide. The left atrium receives new oxidized blood from the lungs, as well as the lung warrick which is transferred to be sucked through suffoced to the various organs of the body. Crocker blood vessels are a major value: the card	
supplied with oxygen and nutrients using a small loop of the systemic bloodstream and derived very little from the blood contained in the four cells. The cranal circulatory circulation system provides a blood supply to the heart muscle itself. The coronary circulation begins near	the origin of coronary arteries
by two coronary arteries: the right coronary artery and the left coronary artery. After the heart muscle is nourished, the blood returns through the coronial sinus and from that to the right atrium. Blood flow back through the opening during corridor systole is valve. The smallest heart veins drain directly into the heart cells. [8] Lung main article: Pulmonary circulation as it passes from the heart. Shows both 2007 and seismic arteries. The circulatory system of the lungs is the part of the cardiovascular system.	-
blood is pumped from the heart, through the pulmonary artery, to the lungs and returned, oxidized, to the heart through pulmonary verine. Blood oxygen from the upper inferior vein and less enters the right atrium of the heart and flows through the tricel valve (right atrium-neutr	al valve) to the right ventricle,
from which it is sucked through a pulmonary semi-lumbar valve into the pulmonary artery. Gas exchange occurs in the lungs, whereby double-decker carbon is released from the blood, and oxygen is absorbed. You're the Weed returns the oxygen-rich blood to the left atrium as the deck cycle provides blood to the lung's larger airway tissues. Systemic circulation and disabled networks presented and also separate from the ionized bloodstream The systemic circulation is the part of the cardiovascular system which transpor	•
heart through an orta from the left ventricle where the blood was previously deposited from the bloodstream, to the rest of the body, and returns oxygen-depleted blood back to the heart. [8] Brain Main Article: Brain flow the brain has a double blood supply that reaches arteries are called front and rear cycle respectively. The anterior blood flow results from the internal major arteries and delivers the front of the brain. The back blood flow stems from the vertebral veins, and supplies the back of the brain and brain stem. The circulation in front are	
in the Willis circuit. Kidneys The kidney circulation receives about 20% of heart output. He branches out from the abdominal aorta and returns blood to the ascent borrower. It's the blood supply to the kidneys, and contains many special blood vessels. Lymphatic system in main	n article: Lymphatic system
Lymphatic system is part of the circulatory system in many complex animals such as mammals and birds. It is a network of lymph nodes, lymph nodes and lymph tissue in the lymph node cycle. One of its main functions is to carry the lymph nodes interstitial fluid back towards the heart for a return to the cardiovascular system, by emptying into the lymph nodes. His other main function is in the adaptive immune system. [11] Developing the main article: Fetal blood flow the development of the circulatory system begins with	
fetus. Human arterial and wall systems evolve from different regions of the fetus. The arterial system develops mainly from the arches of the arterial system develops mainly from the arches of the fetus. The vein system stems from three bilateral veins during weeks 4 – 8 of	, ,
circulation begins in the 8th week of its development. The fetal circulation does not include the lungs, which bypass through the truncus arteries. Before birth the fetus receives oxygen (and nutrients) from the mother through placental and umbilical cord. [12] Main article of the the heart Main article: Arches of the arteries The human arterial system originates from the arteries and back arterial arches recede, creating only the jaw arteries and Arteries respectively. The arterial	
the arches of eurtics 3, 4 and 6 (the cerebral eurec arch 5 completely recedes). Initially, the back Hibber is located on both sides of the fetus. They later merge to form the basis for the Norte's own lavor. About 30 smaller arteries drive from the back and sides. These branches arm and leg arteries, waist arteries and core thigh arteries and the cord arteries. Branches on the sides of the arteries and tondals. Finally, the branches at the front of the arteries are composed of the Whitlin arteries and the cord arteries. The vital arteries for the branches are composed of the Whitlin arteries and the cord arteries.	•
are excellent and fine of the digestive system. After birth, the umbilical arteries will be the inner arteries. Human vein system develops mainly from vitreous veins, uminos, cords and cardinal veins, all empty into the sinus vein. An animated cardiovascular system develops mainly from vitreous veins, uminos, cords and cardinal veins, all empty into the sinus vein. An animated cardiovascular system develops mainly from vitreous veins, uminos, cords and cardinal veins, all empty into the sinus vein. An animated cardiovascular system develops mainly from vitreous veins, uminos, cords and cardinal veins, all empty into the sinus vein. An animated cardiovascular system develops mainly from vitreous veins, uminos, cords and cardinal veins, all empty into the sinus vein.	em function of a typical
circulation of human red blood cells in the circulatory system. This animation occurs at a faster rate (about 20 seconds) and shows the red blood cell twitching as it enters the transparent, as well as the color-changing bars when the cell alternation occurs at a faster rate (about 20 seconds) and shows the red blood cell twitching as it enters the transparent, as well as the color-changing bars when the cell alternation of the circulatory system. Tomerti: Blood § Transporting oxygen approximately 98.5% of oxygen in a sample of arterial blood in a healthy person and breathing air at sea level pressure, chemically combined with hemoglobin molecules. Approximately 1.5% is physically disserted.	
fluids and not connected to hemoglobin. The hemoglobin molecule is the main transporter of oxygen in mammals and many other species. Lymphatic System § Function clinical significance many diseases affect the circulatory system. These in	clude a number of
cardiovascular diseases, affecting the cardiovascular system, and lymph node diseases that affect the lymphatic system. Cardiologists are medical professionals who specialize in the heart, and cardiovascular surgeons specialize in operating on the heart and its surroundings on other parts of the circulatory system. Cardiovascular disease the main article: Cardiovascular diseases that affect the lymphatic system. Cardiovascular diseases that affect the lymphatic system. Cardiovascular diseases that affect the cardiovascular diseases that affect the lymphatic system.	for a person's exercise
habits, diet, if they smoke, and other lifestyle choices a person makes. Atherosclerosis is a precursor to these many diseases. This is where small arterial plates build in the walls of medium and large arteries. It may eventually grow or rupture to block the arteries. It's also a risk syndromes, which are diseases that are degenerated by a sudden deficit of oxidized blood to the heart tissues. Atherosclerosis is also associated with problems such as the formation of an aneurysms or the fragmentation (decomposition) of arteries. Another major cardiovasci	
formation of a blood clot, called thrombus. These can result from arteries or arteries or arteries. Deep vein thrombosis, which occurs mainly in the legs, is one cause of blood clots in the leg buriki, especially when a person has been stationary for a long time. These blood clots may be an	ordeal, meaning travel to
another location in the body. The results of this may include pulmonary embolism, transient entrepreneur attacks, or stroke. Cardiovascular disease may also be congenital in nature, such as heart defects or persistent fetal circulation, where changes in circulation that are support. Not all congenital changes in the circulatory system are linked to disease, a large number are anatomical variations. Magnetic resonance angiography investigations of an abnormal sub-briar artery the function and health of the circulatory system and its parts are measure	• •
automated ways. These include simple methods such as those that are part of a cardiovascular test, including taking a person's heart rate, taking blood pressure using a sphygmomanometer or using a stethoscope to listen to the heart for problems with heart valves. An electrocardiogram can also be used to assess how electricity is performed through the heart. Other invasive measures can also be used. A nowla or catheter inserted into an artery may be used to measure pulse pressure or pulmonary wedge pressure as a normal carbon transfer or using a stethoscope to listen to the heart for a nowla or catheter inserted into an artery may be used to measure pulse pressure or pulmonary wedge pressure as a normal carbon transfer or using a stethoscope to listen to the heart for a nowla or catheter inserted into an artery may be used to measure pulse pressure or pulmonary wedge pressure as a normal carbon transfer or using a stethoscope to listen to the heart for a nowla or catheter inserted into an artery may be used to measure pulse pressure or pulmonary wedge pressure as a normal carbon transfer or using a stethoscope to listen to the heart.	•
involves injecting paint into an artery to visualize an arterial tree, can be used in the heart (coronary angiography) or brain. At the same time as arterial visualizations, blockages or reductions can be repaired by inserting stents, and is designed to bleed actively by inserting coil	s. An MRI was used for
image arteries, called MRI angiography. In evaluating the blood supply to the lungs can be used in a reonic angugram CT. Vascular ultrasound intra-vascular ultrasonics and ultrasonics of deep vein thrombitis of chronic vein dissatisfaction of the needs expansion. You can help by adding it. (March 2015) There are a number of surgical procedures performed on the circulatory system: a stent coronary artery bypass used in vascular surgery and angioplasty and vein stripping cosmetic procedures and cardiovascular procedures.	
performed in an outpatient environment than in an ambulatory treatment environment; At United Only 28% of cardiovascular surgery was performed in the definition of ambulatory treatment. [13] Society and culture this section needs expanding. You can help by adding it. (Mai	ch 2015) In ancient Greece,
the heart is considered a source of congenital heat for the body. The circulatory system as we know it was discovered by William Harvey. Other animals while humans, as well as other vertebrae, have a closed circulatory system (that is, blood never leaves the network of arter inverted groups have an open blood system containing heart but limited blood vessels. The most primitive, diploblastic animal fillet lacks circulatory systems. Another transport system, the lymphatic system, which is found only in animals with closed blood flow, is an open system.	<u> </u>
accessory path for excess interstitial fluids to return to the blood. [5] The blood vessel system apparently first appeared in the ancestors of tripleblasts more than 600 million years ago, overcoming the time distance constraints of diffusion, while endothelial developed intebrate ago. [14] Open circulatory system see also: Hemolymph The open circulatory system of the heart, blood vessels and hemolymp. The hemolimpa is sucked through the heart, into the father of norte, scattered into the head and along the hustle and bustle	
in the heart and the process repeated. In the thropods, the open circulatory system is a system in which a fluid in space called the macula washes the organs directly with oxygen and nutrients, with no distinction between blood and interstitial fluid; This combination fluid is called	ed the hemolimp or
hemolimp. Muscle movements of the animal during movement can facilitate the movement of the moalmape, but shifting the flow from one area to another is limited. When the heart calms down, the blood is drawn back to the heart through open pores (Ostia). The hemolymp f hemocol and surrounds all the cells. The hemolip consists of water, organic salts (especially sodium, chloride, potassium, magnesium and calcium), and organic compounds (especially carbohydrates, proteins and fats). The main oxygen transporter molecule is the mosyanin.	
compartments, the cytastics, inside the hemolimpa. They play a role in the frusque immune system. Flatworms, such as this pseudoros bifurcus, lack special circulation organs. The closed-hearted bi-chamber circulatory system of all vertebrate fish, as well as enelide (e.g., early compartments).	thworms) and cephalopods
(squid, octophanies and relatives) always keep the blood in their circulation surrounded by heart cells or blood vessels classified as closed, just as in humans. And yet, the fish systems, Reptiles and birds show different stages of the evolution of the circulatory system. [16] Clo be directed to organs requiring it. In fish, the system has only one circle, with blood pumped through the gills' gills and on the body tissues. One cycle distribution is known as a single cycle. The heart of the fish is, therefore, only one pump (consisting of two compartments). In	,
reptiles, the double circulation system is used, but the heart is not always completely separated into two pumps. Bi-life has a three-room heart. In reptiles, the thyme septum is incomplete and the urex is equipped with the sphincter muscle. This allows for a second possible parable blood flowing through the pulmonary artery to the lungs, the sphincter may be contracting to divert blood flow through an inseumable ventricular septum into the left ventricle and out through the arterial trunks. This means that the blood flows from the pleasant to the heart and	
to the lungs. This process is useful for ecthermal (cold-blooded) animals in regulating their body temperature. Birds, mammals and crocodiles show a complete separation of the heart into two pumps, a total of four heart cells; It is thought that the four-celled heart of birds and crocodiles show a complete separation of the heart into two pumps, a total of four heart cells; It is thought that the four-celled heart of birds and crocodiles show a complete separation of the heart into two pumps, a total of four heart cells; It is thought that the four-celled heart of birds and crocodiles show a complete separation of the heart into two pumps, a total of four heart cells; It is thought that the four-celled heart of birds and crocodiles show a complete separation of the heart into two pumps, a total of four heart cells; It is thought that the four-celled heart of birds and crocodiles show a complete separation of the heart into two pumps, a total of four heart cells; It is thought that the four-celled heart of birds and crocodiles show a complete separation of the heart into two pumps, a total of four heart cells; It is thought that the four-celled heart of birds and crocodiles show a complete separation of the heart into two pumps.	rocodilians evolved
independently from that of mammals. [17] Dual circulatory systems allow blood pressure after returning from the lungs, so they accelerate the supply of oxygen to the tissues. There are no circulatory systems and blood systems are absent in certain animals, including flatworm lining or closed fluid. Instead a muscular meddling leads to an extensively affiliated digestive system that allows direct dispersion of nutrients to all cells. The flat body shape of the flatworm also limits the distance of each cell from the organism's digestive or external system. O	
water around the cells, and carbon dioxide can disperse outward. As a result, each cell is able to obtain nutrients, water and oxygen without the need for a transportation system. Some animals, such as jellyfish, have a wider branch from their gastroscular cavity (which function	ns both as a place of
digestion and form of circulation), and this branch allows bodily fluids to reach the outer layers, since digestion begins in the inner layers. Human anatomical chart and history of blood vessels, with heart, lungs, liver and kidneys included. Other organs are numbered and arrange the data on this page, Vesalius suggests readers paste the page onto a card and gives instructions on how to assemble the pieces and paste the multilayered figure on the basis of a muscle man Embodiment, Paul 14A. HMD Collection, WZ 240 V575dhZ 1543. The earliest kr	,
circulatory system are in Ebers Papyrus (16th century BC), an ancient Egyptian medical papyrus containing more than 700 prescriptions and spiritual. In papyrus, he recognizes the connection of the heart to the arteries. The Egyptians thought the mouth and into the lungs and heart. From the heart, the air passed to every friend through the arteries. Although this idea of the circulatory system is only partially correct, it represents one of the earliest descriptions of scientific thought. In the 6th century BC, knowledge of the	· · · · · · · · · · · · · · · · · · ·
body was known to Ayurvedic doctor Susharota in ancient India. [18] He also appears to have knowledge of the arteries, described as channels by Dwivedi & Dw	wever, their role was not
properly understood then. Because of puddles of blood in postmortem relics, the arteries look empty. Ancient anatomists assumed they were for transporting air. The Greek doctor, Hirophilus, noticed the arteries, but thought the pulse was properties. The Greek anatomist Eristos noticed that arteries had been dislocated during the bleeding of life. He attributed the fact to the phenomenon that air that escapes from an arter is replaced by blood entered by very small vessels between veins and arteries. So he properties are the properties are	
a reverse flow of blood. [19] In Rome of the 2nd century AD, Greek doctor Galen knew that blood vessels carried blood and identified vein blood (dark red) and arteries (lighter and thinner), each with separate and separate functions. Growth and energy were derived from vein contains, while arterial blood gave vitality by containing panoma (air) and originated in the heart. Blood flowed from both organs forming to all parts of the body where it was consumed and there was no return of blood to the heart or liver. The heart didn't draw blood around, the	3
blood inward during dispersion and the blood moved by the pulses of the arteries themselves. Galen believed that the arterial blood was formed by vein blood passing from the left bromine to the right by passing through 'pores' in the interventricular septum, air passed from the	e lungs through the pulmonary
artery to the left side of the heart. As the arterial blood formed soot fumes were formed and transferred to the lungs also through the pulmonary artery to be exhaled. In 1025, the canon of medicine by the Persian doctor, Avicenna, inadvertently accepted the Greek idea regard The heart partition where the blood travels between the thy rooms. Even so, Avicenna wrote correctly about heart cycles and valvular function, and had a vision of his hesse blood flow on a pulse. [20] [Validation required] While also resplendent with Galen's pronunciation theorems.	3
the first correct explanation for the pulse: each pulse consists of two movements and two breaks. Therefore, extension: pause: contraction: pause: contraction in the heart and arteries Which takes the form of alternate expansion and contraction. In 1242, to	ne Arab physician, Ibn al-
Nafis, became the first person to accurately describe the process of ionized blood flow, for which he was sometimes considered the father of blood physiology. [22] [Authentication failed] Ibn al-Nafis stated in his interpretation of the anatomy in the canon of Bichna: The blood heart must reach the left cell, but there is no direct path between them. The thick septum of the heart is not perforated and will not have visible pores as people thought or pores are as invisible as Galen thought. The blood from the right cell must flow through the redo artery (p	
spread through its materials, wherk there with air, pass through a pulmonary vein to reach the left chamber of the heart and there form the vital wind In addition, Iven al-Nafis had insight into what would make a larger theory of the nomad cycle. He said there must be little cornaid air nationary are limited to the pulmonary artery and vein, a prediction that preceded the discovery of the naïve system by more than 400 years. [23] Ibn al-Nafis's theory, however, was limited to the passage of blood in the lungs and did not expand to the entire body. Michael S	
to describe the functioning of the ocular circulation, although his notions were not widely recognized even during this period, for a number of reasons. He initially described it in the Paris manuscript[24][25] (near 1546), but this work was never published. And he later published	that description, but in a
theological agreement, Christian Rezitio, not in a book on medicine. Only three copies of the book survived but these remained hidden for decades, with the rest burned shortly after it was published in 1553 due to the persecution of religious authorities. A better-known discove by Veselius's successor in Padua, Realdo Colombo, in 1559. A picture of veins from William Harvey's Exercitatio Anatomy de Moto Cordis et Sanguinis in Animalibus, 1628 Finally, English doctor William Harvey, a disciple of Hierony Fabricmusius (who had earlier described the	
acknowledging their function), A sequence of experiments and published exercitatio Anatomica de Motu Cordis et Sanguinis in Animalibus in 1628, which proved that there had to be a direct link between systems and arterial firing throughout the body, and not just the lungs. M	ost importantly, he claimed
that the heartbeat created continuous blood flow through thin connections in the body's extremities. It's a conceptual leap that was quite different from al-Nafis's resmoking of anatomy and blood flow in the heart and lungs. [26] This work, with the essentially correct exhibition, he medical world. However, Harvey was unable to identify the connection system between arteries and veins; These were later discovered by Marcello Malpigy in 1661. In 1956, André Frederick Cornand, Werner Forsman and Dickinson Richards won the Nobel Prize in Medicine	•
regarding cardiac catheterization and pathological changes in the circulatory system. In his Nobel lecture, Pressman credits Harvey as a born cardiology with the publication of his book in 1628. In the 1970s, Diana McShari developed computer-based systems to create images system without the need for surgery. [29] See also Medicine Cardiology Portal – a branch of medicine that deals with cardiovascular drift heart cycle essential for heart muscle fever – muscular tissue of the main cardiovascular systems of human body Amato Lusitano blood ve	•
cardiovascular resistance is the resistance offered by blood vessels that must be overcome to push blood through them and create flow. References ^ circulatory system in Dorland's medical dictionary ^ Let's beat cancer sooner. Cancer Research UK. April 13, 2017, April 13,	2017. In 2006, after receiving
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receiving the Nobel Peace Prize, he was awarded the Nobel Peace Prize. What are the lungs? nih.gov from the original in 2014-10-04. On February 3, 2014, The State University of New York was held on February 3, 2014. The circulatory system. suny.edu from the original or after receiving the Nobel Peace Prize, he was awarded the Nobel Peace Prize. Johnson, A.; Levis, Jav. Beff, M.M., M.; Beherte, K.; Welters, Da. (2002). Melecular biology of the cell (4 ed). New York and Lenders, Carland Science, AVA in 2001, there was a 2001 fetal evelop.	E-1
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