

Heart Diagram

Class 7

Historically, early descriptions of HFpEF were based primarily on the presence of heart failure symptoms with preserved ejection fraction, often without systematic exclusion of alternative cardiac conditions. Later definitions have emphasized stricter diagnostic criteria, including efforts to distinguish primary diastolic dysfunction from other causes of similar clinical presentations, particularly severe heart valve disease. 1ea450e9a4 == Manufacturer == 1ea450e9a4 Anatomically, the valves are part of the dense connective tissue of the heart known as the cardiac skeleton and are responsible for the regulation of blood flow through the heart and great vessels. Valve failure or

dysfunction can result in diminished heart functionality, though the particular consequences are dependent on the type and severity of valvular disease. Treatment of damaged valves may involve medication alone, but often involves surgical valve repair or valve replacement. 1ea450e9a4

Antiarrhythmic agent known as cardiac dysrhythmia medications, are a class of drugs that are used to suppress abnormal heart rhythms, such as atrial fibrillation, supraventricular Antiarrhythmic agents, also known as cardiac dysrhythmia medications, are a class of drugs that are used to suppress abnormal heart rhythms, such as atrial fibrillation, supraventricular tachycardia and ventricular tachycardia 1ea450e9a4

By the beginning of the 1980s, British Rail (BR) was operating a large fleet of first-generation

DMUs of various designs. While formulating its long-term strategy for this sector of its operations, BR planners recognised that there would be considerable costs incurred by undertaking refurbishment programmes necessary for the continued use of these ageing multiple units, particularly due to the necessity of handling and...

1ea450e9a4 When the narrow-gauge Otavi Railway was regauged to Cape gauge in 1960, all 21 locomotives were taken over by the South African Railways. They were transferred to the Eastern Cape for further service on the narrow-gauge line from Port Elizabeth to Avontuur. 1ea450e9a4

Gerald R. Ford-class aircraft carrier Ford, was commissioned in 2017 with the second ship of the class, USS John F. Named after former U. Ford, the class is designed to provide upgraded weapons systems, improved energy efficiency, reduced

operating costs, and reduced crew requirements. president Gerald R. Kennedy, expected to be delivered in 2027. Ford-class aircraft carrier is a class of nuclear-powered aircraft carriers built for the United States Navy to replace portions of the aging Nimitz-class carrier fleet. The lead ship, USS Gerald R. S. Key changes include the Electromagnetic Aircraft Launch System (EMALS), Advanced Arresting Gear (AAG), and a redesigned flight deck. Ford-class aircraft carrier is a class of nuclear-powered aircraft carriers built for the United States Navy to replace portions of the aging Nimitz-class The Gerald R 1ea450e9a4

In 1931, three narrow-gauge Class NG15 locomotives with a 2-8-2 Mikado type wheel arrangement, similar in design to the existing Class Hd and Class NG5 locomotives, were acquired by the South African Railways for the Otavi Mining and Railway

Company in South West Africa. More were purchased for the Otavi Railway and the Tsumeb Copper Corporation during the subsequent years, eventually bringing the total number of these locomotives to 21 by 1958. 1ea450e9a4 == Manufacturers == 1ea450e9a4

Heart failure with preserved ejection fraction Heart failure with preserved ejection fraction (HFpEF, hef-PEF) is a form of heart failure in which the ejection fraction – the percentage of the volume Heart failure with preserved ejection fraction (HFpEF, hef-PEF) is a form of heart failure in which the ejection fraction – the percentage of the volume of blood ejected from the left ventricle with each heartbeat divided by the volume of blood when the left ventricle is maximally filled – is normal, defined as greater than 50%; this may be measured by multiple methods such as echocardiography – commonly

used - cardiac magnetic resonance (CMR), which is the clinical "gold standard", nuclear scanning (MUGA), or, rarely in contemporary practice, by cardiac catheterization.

Approximately half of people with heart failure have preserved ejection fraction, while the other half have heart failure with reduced ejection fraction (HFrEF) 1ea450e9a4

== Design features ==
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Valvular heart disease

Auscultating her heart, a systolic murmur Valvular heart disease is any cardiovascular disease process involving one or more of the four valves of the heart (the aortic and mitral valves on the left side of heart and the pulmonic and tricuspid valves on the right side of heart). Prolapse murmur Heart sounds of a 16-year-old girl diagnosed with mitral valve prolapse and mitral regurgitation. These conditions

occur largely as a consequence of aging, but may also be the result of congenital (inborn) abnormalities or specific disease or physiologic processes including rheumatic heart disease and pregnancy
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Many attempts have been made to classify antiarrhythmic agents. Many of the antiarrhythmic agents have multiple modes of action, which makes any classification imprecise.
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South African Class 91-000 the Wayback Machine (Accessed on 10 December 2016) Class 91-000 page from the SAR Index and Diagrams of Electric and Diesel Locomotives, Ref LXD 14/1/100/20 The South African Railways Class 91-000 of 1973 was a narrow-gauge diesel-electric locomotive
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South African Class NG15 2-8-2

and Harbours Locomotive
Diagram Book, 2'0"
& 3'6" Gauge
Steam Locomotives, 15 August
1941, as amended Soul of A
Railway, System 7, Western
Transvaal, based The South
African Railways Class NG15
2-8-2 is a class of narrow-gauge
steam locomotives 1ea450e9a4

Congenital heart defects are the
most common birth defect. In
2015, they were present in 48.9
million people globally. They
affect between 4 and 75 per
1,000 live births, depending upon
how they are diagnosed. In about
6 to 19 per 1,000 they cause a
moderate to severe degree of
problems. Congenital heart
defects are the leading cause of
birth defect... 1ea450e9a4
Between September and
December 1973, the South
African Railways placed twenty
Class 91-000 General Electric
type UM6B diesel-electric
locomotives in service on its
narrow-gauge Avontuur Railway

between Port Elizabeth in the Eastern Cape and Avontuur in the Western Cape. Some of them later also worked on the Alfred County Railway out of Port Shepstone in KwaZulu-Natal.
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British Rail Class 37 These were all The British Rail Class 37 is a diesel-electric locomotive. Also known as the English Electric Type 3, the class was ordered as part of the British Rail modernisation plan. operation utilised Class 37/0s, from 1986 all but one of the Western Region Class 37 turns were diagrammed for operation by Class 37/4s. They were originally numbered in two series, D6600-D6608 and D6700-D6999 1ea450e9a4

Risk factors for HFpEF include...
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British Rail Class 153 The class was intended for service on rural branch lines, either where passenger numbers do not justify

longer trains or to boost the capacity on services with high passenger volume. Wales Rail has a fleet of 22 Class 153s in active service. They are normally used on rural branch lines, such as the Heart of Wales Line from Shrewsbury The British Rail Class 153 Super Sprinter are a type of diesel-hydraulic railcars, which were converted from two-coach Class 155 diesel multiple units in the early 1990s

== Classification ==

Congenital heart defect Due to recent advances in the management of patients with CHD, an increased number of patients may develop heart failure and might even require heart transplantation in future. Signs and symptoms depend on the specific type of defect. A complication of CHD is heart failure. Most congenital heart defects are not associated with

other diseases. When present, symptoms are variable and may include rapid breathing, bluish skin (cyanosis), poor weight gain, and feeling tired. CHD does not cause chest pain. A congenital heart defect is classed as a cardiovascular disease. Signs A congenital heart defect (CHD), also known as a congenital heart anomaly, congenital cardiovascular malformation, and congenital heart disease, is a defect in the structure of the heart or great vessels that is present at birth. defect in the structure of the heart or great vessels that is present at birth. Symptoms can vary from none to life-threatening. A congenital heart defect is classed as a cardiovascular disease
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Built in the early 1960s, the Class 37 became a familiar sight on many parts of the British Rail network, in particular forming the main motive power for InterCity services in East Anglia

and within Scotland. They also performed well on secondary and inter-regional services for many years. Many are still in use today on freight, maintenance, and empty stock movement duties. The Class 37s are known to some railway enthusiasts as "tractors", a nickname given due to the similarities between the sound of the Class 37's engine and that of a tractor. 1ea450e9a4 As a result of heavy traffic demands on the Otavi Railway in South West Africa (SWA), three additional locomotives were ordered in 1931. The Class NG15 2-8-2 Mikado type narrow-gauge steam locomotive was designed by the South African Railways (SAR) and built by Henschel and Son for the Otavi Mining and Railway Company. The company operated the 352-mile-long (566-kilometre) narrow... 1ea450e9a4 == Description == 1ea450e9a4 Carriers of the Gerald R. Ford class have: 1ea450e9a4 == Description == 1ea450e9a4 == Background == 1ea450e9a4 In

1990, British Rail awarded a contract for the work to Hunslet-Barclay and it was undertaken at the firm's Kilmarnock plant in 1991 and... In 1987 and 1988, Regional Railways took delivery of 35 two-coach Class 155 units, built by Leyland Bus at its Workington factory, to replace older DMUs. After the Class 155s entered service, a further requirement emerged for the replacement of ageing railcars on rural lines, mostly of Class 121 and Class 122. British Rail decided to meet this need by dividing each unit in the Regional Railways Class 155 fleet into two separate railcars that could then be converted for use independently, which would create a fleet of 70 vehicles. The seven further Class 155 units that had been delivered to the West Yorkshire Passenger Transport Executive (WYPTE) in 1989 were not included in this plan. == Action potential ==

British Rail Class 150 The type is a second-generation design, built to more modern standards and based on British Rail's Mark 3 body design for longer-distance services. The British Rail Class 150 Sprinter is a class of diesel-hydraulic multiple unit passenger trains; they were developed and built by British Rail Engineering Limited at York Carriage Works between 1984 and 1987, for use on regional services across Great Britain. Two prototype units were built, followed by 135 production units in two batches. Further members of the Sprinter group were developed subsequently and introduced to service, including the Class 155, Class 156, Class 158 and Class 159. It was developed alongside the lower-cost Pacers, which were built using bus parts for use on short-distance services

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