



NOT ONLY AGAINST CANCER.

ASC's mission also includes cardiovascular disease and benefiting from an early diagnosis allows you to have more meaningful answers in terms of solving the problem. The ASC Diagnostic Centre, set up with the fundamental mission of disseminating the Whole-Body Diffusion for the early diagnosis of cancer in the asymptomatic population, could not fail to pay special attention to the major issue of cardiovascular diseases. Moreover, these diseases still constitute one of the most significant public health problems in Italy and are among the main causes of disability and mortality. Protecting our tireless heart pump remains a health priority, which is why ASC has decided to make a package of examinations, recommended by international guidelines, available to the public to monitor the condition of the heart and blood vessels.

FOR INFORMATION AND APPOINTMENT

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REACH US

Via Aldo Moro, 68 - 24060 - Castelli Calepio (BG)
It is about 20 km from Bergamo, 30 km from Brescia,
60 km from Milan. Located less than 3 km from the
exit of the A4 – Ponte Oglio motorway.



THE SPREAD OF KNOWLEDGE: CULTURE SAVES LIVES

■ ■ ■ DIFFUSION WHOLE BODY (DWB)

CARDIOVASCULAR DIAGNOSTICS



ABOUT US

ASC Italy S.r.l. (Advanced Screening Centers) has its origin in the **passion** and **commitment** of a group of entrepreneurs who have long been leaders in the fight against cancer. They have embraced the idea, widely shared in the **medical and scientific communities**, that the cure of many tumours is best achieved through prevention in healthy people.

Years of research by leading medical scientists and radiologists at the European Institute of Oncology (IEO) has led to the development of Diffusion Whole Body (DWB), a non-invasive examination performed using the latest generation MRI technology, that permits exploration of the human body in a few minutes with a resolution that allows tumours as small as a few millimetres to be identified without using radiation or contrast agent.

Today DWB is available at the **ASC Centre in Castelli Calepio**, in the Italian province of Bergamo.

ASC's goal is to play an active role in promoting the culture of cancer prevention. To do so, our company statutes specify that profits will be re-invested to create of other centres in Italy and to reduce the cost of the examination in order to make it as widely accessible as possible. ASC aims to introduce advanced cancer prevention into the normal lifestyle of healthy individuals.

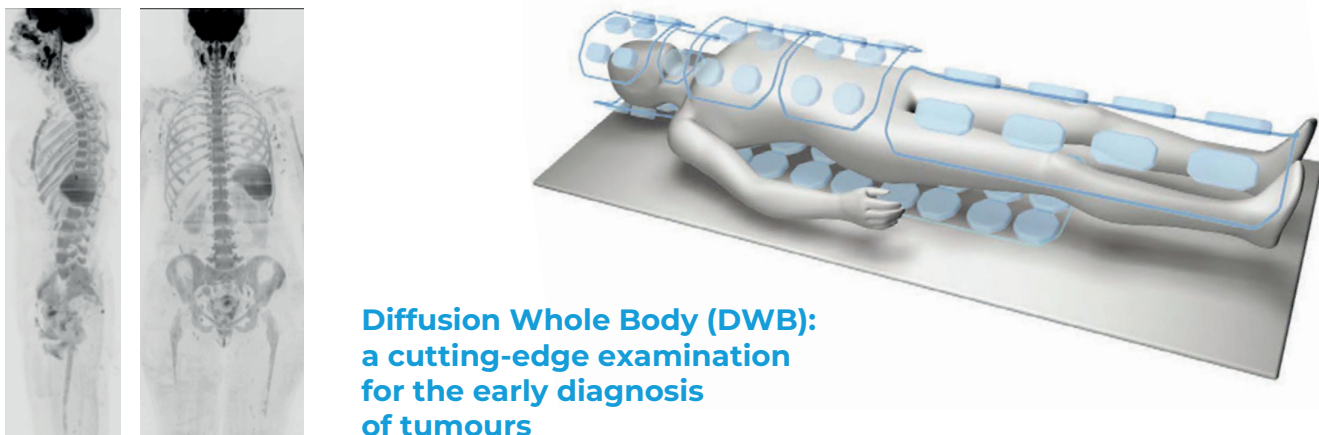




THE DIFFUSION WHOLE BODY (DWB) A SAFE, SIMPLE, RELIABLE EXAMINATION

Diffusion Whole Body (DWB) is a cutting-edge, non-invasive diagnostic examination that uses latest generation magnetic resonance imaging equipment to produce detailed, panoramic, three-dimensional images of the entire human body, thus facilitating the identification even of just a few millimetres in size, **without the use of radiation or contrast agent**.

DWB provides high-resolution images sensitive to the microscopic diffusion of water molecules, in which hypercellular tissues (typical of tumours) are much brighter than the surrounding tissues. The acquired images are processed on a dedicated computer to generate three-dimensional, multi-planar reconstructions of the entire human body that permit specialized radiologists to identify even small tumours.



Thanks to the Diffusion Whole Body examination, it is possible to diagnose asymptomatic tumours, including those that are not usually the target of conventional screening programmes.

A DWB examination lasts roughly **30 minutes**, without discomfort or pain for the person being examined. As no specific preparation is required, there is no fasting, medication, or enema; and once completed, one can return to normal activity without restrictions.



ADVANCED TECHNOLOGY SERVING HEALTH

More advanced than a traditional magnetic resonance (MR) examination, DWB is the product of **years of research** that have seen it established as a leading diagnostic technique in cancer patients; but it is performed only in highly specialized centres because it requires an expensive, **sophisticated MR scanner**, and a team of **specialized radiologists with the experience** essential for the interpretation of the images.

DWB has been performed at the European Institute of Oncology (IEO) in Milan since 2009, where it is used primarily for research and for cancer patients. With time, the enormous potential of DWB for preventing tumours in healthy individuals has become clear through its ability to **depict small lesions, its non-invasive nature and safety**.

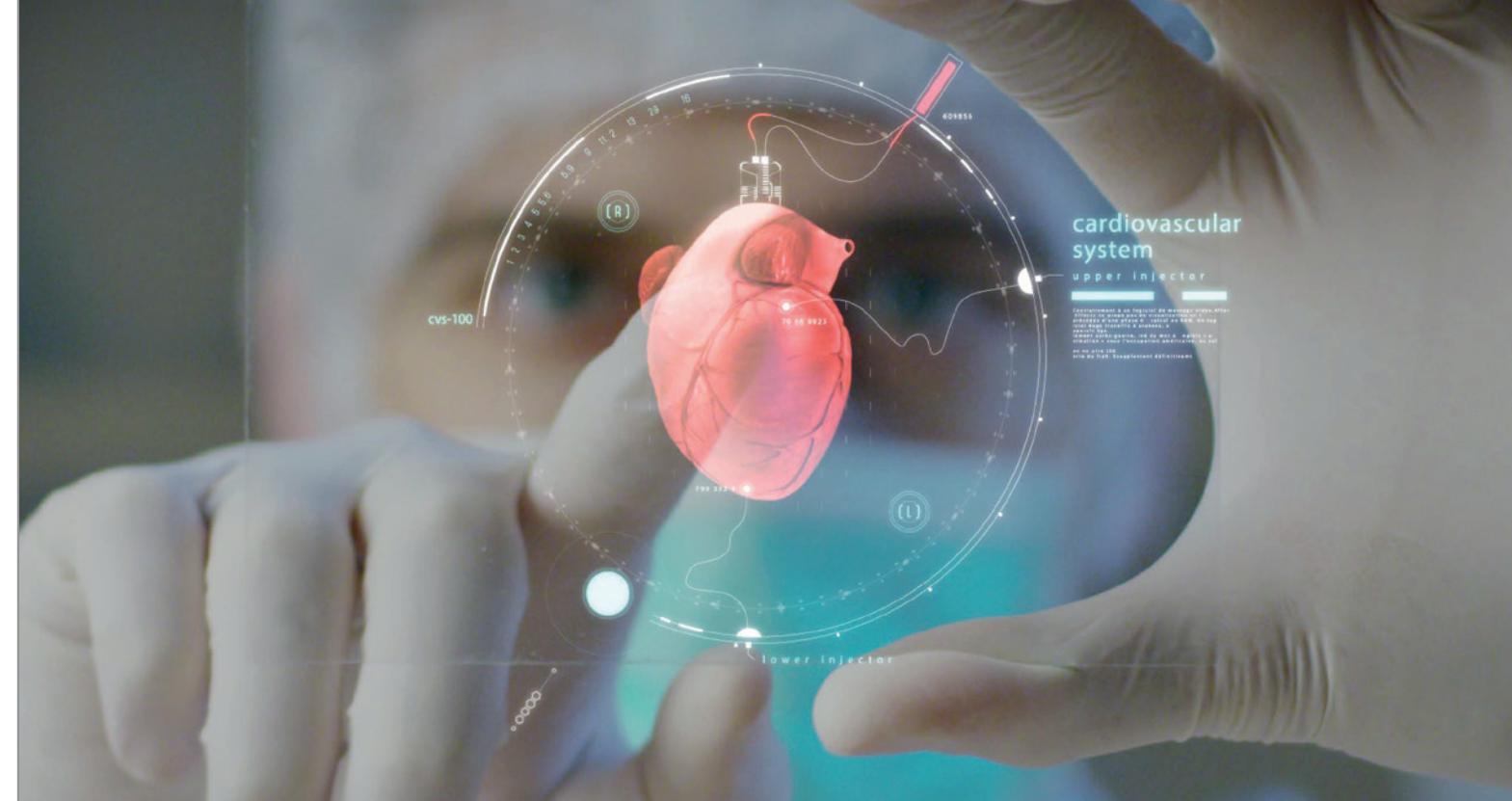
Currently, DWB is used to **prevent tumours** in healthy individuals only in a few pioneering centres worldwide. DWB does not substitute for public health screening programs. Those who want to do more for their health than follow standard screening can now undergo a **Diffusion Whole Body** examination.



ASC PUTS ALL ITS SCIENTIFIC KNOWLEDGE TO WORK FOR THE HEALTH OF YOUR HEART

The Centre offers a cardiological prevention package in line with international guidelines:

- 01** The **cardiological examination with electrocardiogram** consists of a professional assessment by a cardiologist and is the key step in the process of investigating heart health.
- 02** The **exercise stress test** is the diagnostic test performed on an exercise bike that photographs the behaviour of the heart rate under stress in a controlled clinical environment.
- 03** The **echocardiogram** is a diagnostic examination that uses an ultrasound probe placed on the chest to visualise the structure of the heart muscle and blood vessels; the thickness of the heart walls and their motility during cardiac activity and the flow of blood within its chambers (the atria and ventricles).
- 04** The **Holter blood pressure monitor** is a non-invasive, painless diagnostic test that allows a dynamic 24-hour recording of blood pressure variability as well as providing important information on nocturnal blood pressure levels, using the same principle as a blood pressure measurement with a sphygmomanometer.
- 05** The **24-hr dynamic ECG (Holter heart monitor)** is used to continuously monitor the electrical activity of the heart throughout the day. The 24-hour dynamic ECG (or Holter ECG) is a portable electrocardiogram that evaluates the patient's cardiac response while performing usual daily activities.
- 06** The **48-hr / 5-day dynamic ECG (Holter heart monitor)** is used to continuously monitor the electrical activity of the heart for up to 48 hours and even up to five days, if so required by medical indications.



VASCULAR PREVENTION SERVICE

The ASC diagnostic centre perform examinations that are essential in the prevention of cerebrovascular diseases such as stroke, aortic aneurysm, gangrene of the lower limbs and all venous diseases of the lower limbs.

- 01** The **colour Doppler ultrasound scan** is the main method of vascular screening. It is a non-invasive and repeatable examination, which uses ultrasound to morphologically (ultrasound) and hemodynamically (Doppler) examine the walls and flow of arterial and venous vessels.
- 02** The **colour Doppler ultrasound of the supra-aortic vessels** is an examination used to study and monitor the blood vessels (arteries and veins) that supply the structures of the head, and for the diagnosis of cerebrovascular diseases.
- 03** The **colour Doppler ultrasound of the abdominal aorta** allows for the study of the abdominal aorta, the largest arterial vessel in our body, as well as the major abdominal vessels. In particular, it assesses the flow, and any dilation (aneurysms) or narrowing (stenosis), as well as any alteration of the tissues of the large abdominal blood vessels: the aorta, the renal arteries and the iliac arteries.
- 04** The **colour Doppler ultrasound of the lower limbs** is a non-invasive examination used to evaluate the health status and function of the blood vessels (arteries and veins) of the legs: course of the vessels, diameter, vascular wall, arterial flow and relationship of the vessel with the nearby structures.