For the well-being of your cardiovascular system

Cardiology
Angiology
Cardiothoracic Surgery
Vascular Surgery
Rehabilitation

Information for patients
For the well-being of a complex overall system

Disorders of the Cardiovascular system

- Arteriosclerosis, calcification of the carotid artery
- Pulmonary embolism
- Enlarged abdominal artery (aortic aneurysm)
- Occlusion of the renal artery
- Peripheral arterial occlusive disease
- Chronic wounds

- Cardiac arrhythmia
- Cardiac valve defect
- Occlusion of the coronary vessels/heart attack
- Cardiac insufficiency
- Venous thrombosis, varicose veins
- Diabetic foot

Two and a half times around the equator
With all its intricate branches, the human vascular system has a length of more than 100,000 kilometres. An immense network of roads for the red blood cells to travel by.

Uninterrupted high performance
During the course of an 80-year lifespan, a human heart beats approximately 3.3 billion times. It pumps 8,000 litres of blood through our vascular system every day. A short rest – and be it only a momentary break in rhythm – can have fatal consequences.

Traffic without a jam
When occlusions form in the arteries, the oxygen providing system can be brought to a standstill. In order to ensure that all the organs can be sufficiently supplied with oxygen, the occlusions have to be removed by stretching the artery or are circumvented by means of a bypass.

Five billion transporters
Red blood cells are the couriers of our blood stream. By means of their red pigments, known as haemoglobin, they absorb oxygen in the lungs and carry it into the tiniest branches of the vascular system. One cubic centimetre of blood contains approximately 5 billion red blood cells; a healthy adult has a total of around 25 trillion of these.

Engineering skills for blood vessels
By means of delicate wire netting, damaged vascular walls can, in many cases today, be supported from the inside. The "stents" are carried to their required positions through the bloodstream, with the help of catheters, where they are then anchored.

Valves maintain order
The cardiac valves ensure that the blood is only able to flow through the cardiovascular system in one direction. If there is a leak somewhere, the capacity of the entire "transport system" is reduced. This means that they have to be repaired or replaced.
Dear Reader,

Over the past few years there has been a tremendous amount of progress in the diagnosis and therapy of cardiovascular diseases. Today, even patients with severe diseases stand a very good chance of being healed or, at least, of regaining a considerable amount of quality in their lives.

The Cardiovascular Center Bad Bevensen is one of the few centers of excellence in Germany which provides support for patients throughout all the diagnostic and therapeutic phases of cardiovascular diseases: from consultation and prevention services, through detailed diagnostic findings in the Clinic, treatment with modern, gentle therapeutic and surgical procedures, to accommodation in the Rehabilitation Clinic. Therefore the frequently multi-faceted interrelationships between the diseases can be optimally considered. Specialist medical practices for cardiac and vascular medicine, providing outpatient services and situated directly in our Clinic, complete the spectrum of the HGZ as a fully integrated center.

The HGZ provides comprehensive health services, from prevention to rehabilitation.

By means of this holistic approach, the HGZ is able to provide the best medical care for each and every individual patient – with top medical services in a friendly, people-focused environment. We hope you will find the information which follows useful and wish you a pleasant and successful stay in our Clinic.

»We always perceive the individual cardiac or vascular disease within the context of the complexity of the overall body and circulatory system.«

Prof. Dr. Gerhard Wimmer-Greinecker
Medical Director
Chief Physician for cardiothoracic surgery
Competence for the cardiovascular system

As an integrated center for cardiovascular diseases, the HGZ provides comprehensive options for diagnosis and treatment. Hereby, we pave the way back to a frequently and largely unencumbered way of life for our patients. The cardiac and vascular systems are, quite literally speaking, the lifelines in our bodies. Medical science has opened up a comprehensive base of knowledge on the functions of this complex system. Therefore we are capable, today, of providing very successful treatment for cardiovascular diseases in patients of any age.

State-of-the-art procedures at the HGZ by means of an international exchange of experience

And, we are able to increase our knowledge on how to maintain the health of the cardiovascular system, on a daily basis – so that patients can regain their quality of life. The physicians at the Cardiovascular Center Bad Bevensen are highly qualified specialists with long-term experience in their fields. Due to the close collaboration with other regional and international cardiovascular medical centers of excellence, we are able to utilise new and clinically proven diagnostic and treatment procedures exceptionally quickly for our patients.

Cooperation of specialists for individual therapeutic concepts

Patients are often affected by several disease patterns at the same time. As an integrated center for cardiovascular medicine, the HGZ is able to provide its patients with an additional big advantage: the entire range of examination, treatment and support options from the various sub-disciplines are available under one roof at any chosen time. In cases of unclear diagnostic results or multifactorial symptoms, the appropriate expert can be notified immediately. By means of this close cooperation between specialists, we develop treatment concepts which are aimed at the specific overall situation of each individual patient, from the diagnosis to rehabilitation.

The HGZ is a specialised clinic in which all the specialist disciplines necessary for the successful treatment of cardiovascular diseases work closely together.

Treated heart diseases include
- heart attack / coronary heart disease
- cardiac insufficiency
- congenital and acquired heart valve defects
- Heart muscle diseases (cardiomyopathies and perimyocarditis)
- cardiac arrhythmia

Treated vascular diseases include
- circulatory disorders in the arms or legs (peripheral occlusive arterial disease)
- artery calcification (arteriosclerosis, specifically the carotid artery)
- dilation of the thoracic and abdominal aorta (aortic aneurysms)
- diseases of the renal arteries
- shunt reinsertion or correction for dialyses

- diseases of the veins (e.g. varicose veins, leg vein thrombosis)
- lymphatic diseases
- chronic wounds e.g. in cases of diabetes (diabetes mellitus)

A detailed overview of the service range at the HGZ Clinics is provided in the flap at the back of this brochure.
A thorough diagnosis is the most important prerequisite for a precise and individual treatment plan. The course for such a plan is set in the central patient admission area of the Cardiovascular Center Bad Bevensen. A detailed consultation with the patient, careful evaluation of existing results from the attending physician, as well as in-depth examinations carried out during admission, will provide clarity on steps to follow.

**High-tech for the cardiac and vascular check**

Particularly a pictorial representation of the heart and the blood vessels makes a detailed analysis of the disease all the more possible. Today, modern imaging techniques allow for fascinating insights into the human body. All the required radiological examinations can be carried out in the Clinic for Radiology at the HGZ. A state of the art computed tomography unit plays a special role in the demonstration of damaged blood vessels e.g. also the coronary vessels. This high-tech device is able to provide a three-dimensional representation of the heart and the vessels with the highest precision. By means of two left cardiac catheters, cardiologists are able to create an exact picture of the narrowed coronary arteries. If possible, the restrictions are directly dilated during the catheter intervention.

**“Reading” in the blood vessels**

When examining other vascular diseases, specialists from the Vascular Center analyse the condition of the vascular walls with a high-resolution ultrasonic method. This requires the use of a device with a revolutionary new technology, which is able to provide images with hitherto unknown precision. Vascular walls can be represented down to exactly a tenth of a millimetre. In so doing changes to the vascular walls are directly visible at a very early stage and dysfunctions in the vascular system can be recognised. The examination is purely external, completely pain-free and without side-effects. It does not include any harmful exposure, neither to X-rays nor to radiopaque materials.

»We provide superior precision examination procedures because most diseases can only be properly diagnosed when taking a really close look.«

Dr. Günther Reusch
Chief Physician, Clinic for Radiology
Cardiology and Cardiac Surgery – success by means of state of the art treatment concepts

Patient-friendly procedures in cardiac surgery and new holistic therapeutic strategies in cardiology are the main points of focus in the field of cardiac medicine at the HGZ. Therefore the range of therapeutic options have risen considerably beyond the standard routine procedures: today, elderly patients who have been untreatable thus far, this means the opportunity of an improved quality of life. By means of a rehabilitation facility, situated directly adjacent to acute treatment in our center, we can provide you with the best possible preparation for such a step.

Minimally invasive and gentle surgical procedures as the main focus
Approximately 1,500 heart operations are performed in cardiac surgery at the HGZ every year. If possible, this includes the application of minimally invasive surgical procedures. They are aimed at keeping the surgical trauma of the patient to an absolute minimum. This is especially possible during bypass surgery, where we are able to forego the use of a heart-lung machine i.e. during beating heart surgery. Thereby the inflammatory response, which is caused by the heart-lung machine, can be avoided.

Today, many cardiac surgical interventions, particularly interventions for heart valves, can additionally be carried out via small incisions or so-called “keyhole surgery”, without having to transect the breast bone. Dr. Gerhard Wimmer-Greinecker is one of the leading specialists in this field.

Cardiology with a multimodal treatment concept
The Clinic for Cardiology treats approximately 3,500 in-patients each year. As a result, the cardiologists at the Cardiovascular Center Bad Bevensen have extensive experience regarding all forms of cardiological diseases. By means of their holistic perspective and treatment of cardiac insufficiency, in connection with the frequent occurrence of concomitant diseases, the Clinic for Cardiology, under the leadership of Prof. Dr. Bjoern A. Remppis, has set out in a new direction. The multimodal treatment concept, which has been introduced at the HGZ, assists patients with cardiac insufficiency in effectively improving their overall medical condition. This includes the application of alternative treatments.

An additional focus of cardiology lies in the treatment of cardiac arrhythmia. Approximately 500 Clinic patients are provided with a pacemaker each year. In a nationwide comparison, the Clinic disposes over particularly extensive experience in the implantation of defibrillators, for the treatment of life-threatening arrhythmia. Other types of arrhythmia, such as intermittent atrial fibrillation, are treated by means of catheter ablation.

Hybrid Surgery: the combined benefit of two disciplines
During so-called hybrid surgical procedures, cardiac surgeons and cardiologists work together to remove blockages in the coronary arteries: While the vessels on the posterior wall of the heart are dilated by the cardiologist using a catheter, the surgeon bridges a constriction at the anterior wall of the heart by means of a bypass, using a minimally invasive technique. With the aid of this hybrid procedure, the length of the operation is minimised and strain on the body is reduced.

»Heart disease is often only the tip of the iceberg. This is why we also treat the concomitant diseases, which systematically accompany cardiac insufficiency.«
Prof. Dr. Bjoern A. Remppis
Chief Physician Clinic for Cardiology

»Today we are able to help patients for whom, only a few years ago, there were no treatments available whatsoever.«
Prof. Dr. Gerhard Wimmer-Greinecker
Chief Physician for Cardiotoracic Surgery
The Vascular Center – all the options for comprehensive treatment

Catheter procedures or surgery – that is not the question!
A variety of different treatment strategies are available for the treatment of these vascular diseases. Catheter-assisted treatments and surgical interventions, complemented by effective medical therapy, cover the range of services from which the Vascular Center sets up an individual treatment plan. As endovascular specialists, we are able to combine minimally invasive techniques with open surgical treatment elements (hybrid interventions) and, in so doing, combine the strengths of various different procedures. In order to guarantee safety and sustainability, this is also the focus of our scientific work, which we are in international exchange about with other vascular specialists. Our spectrum of treatment options covers all the vascular diseases of the arterial and venous vascular systems. The treatment of complicated findings in cases of arterial occlusive diseases and life-threatening diseases of the aorta, in the thoracic and abdominal regions, pathological changes of veins (e.g. thrombosis and varicose veins) as well as cases of lymphatic diseases, are some of the main focus areas of the Vascular Center. The aim is to combine sustainable improvement of the clinical picture with a minimum amount of strain on the patient. In order to ensure that the patient’s condition remains this way for as long as possible, we are one of only a few centers that provide direct vascular rehabilitation in our on-site rehabilitation clinic.

Interdisciplinary cooperation for best treatment
The best treatment for each individual case, depends on a large variety of factors. Through the communication between angiologists, vascular surgeons and radiologists, the options can be carefully examined and individually translated, ranging from acute treatment to angiological rehabilitation. The Vascular Center is certified according to strict regulations provided by the German Society for Vascular Surgery and Vascular Medicine. With more than 1,700 open and interventional vascular operations each year, the Vascular Center belongs to the biggest vascular medical centers of excellence in Lower Saxony. With regard to operations on narrowed carotid arteries (carotid surgery), it is one of the ten centers of excellence throughout Germany to carry out more than 120 interventions per year.

Modern wound management
Chronic wounds, which are often caused by vascular diseases, can be very successfully treated in a highly specialised wound center. Vascular specialists eliminate the vascular problems which cause these symptoms. Due to their specialisation as certified wound managers, they have an extensive range of modern wound management options at their disposal. Herewith, many patients are presented with a chance of permanent healing.

> Experience and a good sense of judgement are an important basis for sustainable treatment quality in vascular medicine. Specialisation within one center has provides the necessary number of cases for this. «
Dr. Thomas Nolte
Director Vascular Center, Chief Physician for vascular surgery, Head of Wound Center

> Every leaf is unique. The same goes for blood vessels in the human body: be it the aorta or a simple capillary, by means of our interdisciplinary Center we are able to put individual therapeutic concepts into practice. «
PD Dr. Christian Kügler
Chief Physician Clinic for Angiology (acute/rehab)
Quality assurance for long-term good results

The HGZ continuously puts the quality of its medical services to the test – for example by participating in the external quality assurance by the German federal institute, the “Bundesgeschäftsstelle für Qualitätssicherung BQS”. The annual reports demonstrate that the HGZ is able to live up to national and international standards with regard to its services. The external audits, by means of our certified quality management system, according to DIN EN ISO 9001, through the certification company, which also take place regularly, confirm the functionality and further development of HGZ quality management. A cornerstone of this quality is the extensive experience and the interdisciplinary cooperation of our specialist center.

We are also able to apply this experience in the field of medical research: the leading physicians at the HGZ play a significant part in major national and international studies for the further development of patient-friendly surgical procedures, as well as new methods for the treatment of cardiac insufficiency.

Anaesthesiology and Intensive Care – reliable and caring support throughout the surgical procedure

The Clinic for Anaesthesiology cares for patients who are being operated on in the Cardiovascular Center Bad Bevensen. Pain therapy also forms a part of the Clinic’s services. By means of individual concepts, we accompany patients safely through their entire stay at the Clinic. The convenient size of the Clinic enables a very personal and trustworthy exchange to take place between patients and physicians. Physicians take plenty of time to answer all questions, within the context of a detailed consultation and clarification, regarding the scheduled operation.

State of the art medical technology provides peace of mind

The experienced anaesthesiologists have state of the art medical equipment at their disposal in the operating suite and the intensive care unit. Monitoring systems ensure uninterrupted surveillance of the patients’ condition, before, after and during the operation. By means of special measuring catheters a continuous stream of differentiated information on the cardiovascular functions is provided during the operation – to ensure a maximum degree of safety.

Reliable elimination of pain

One of the primary objectives is to keep the effects of the anaesthetics to an absolute minimum and to exclude risks. Minor interventions are carried out by means of safe local anaesthetic procedures. All the current procedures for guaranteeing freedom from pain after an operation e.g. patient-controlled infusion pumps, nerve blockage with or without catheter technology and of course classic medicinal pain treatments, are applied. The central laboratory, which is equipped with the newest technology, is headed by the Clinic for Anaesthesiology. Anaesthesiology also ensures the provision of blood products. In order to compensate for blood loss during an operation, we also provide opportunities for autologous blood donations in appropriate cases.

»We know all about the effects of an operation on the human body. Particularly for elderly people, the anaesthesia has to be very precisely planned. This is why we conduct detailed consultations with our patients prior to the operation.«

Dr. Aiman Alken
Chief Physician Clinic for Anaesthesiology and Intensive Care
Rehabilitation – getting fit for daily life and work

The main focus of the Clinic for Cardiological and Angiological Rehabilitation lies in follow-up treatment after acute medical treatment of the cardiovascular system. We ensure the successful transfer from hospital treatment to the private situation at home. By means of rehabilitation, we aim at providing our patients with the necessary strength so that they are able to tackle the demands placed on them by their private and professional lives, after their stay at the Clinic.

An important prerequisite for regaining physical capabilities and vitality is the improvement of physical fitness. In rehabilitation, an individually compiled training programme leads to step by step improvements in the patients’ physical condition, without any danger of over-exertion. A swimming pool, modern training equipment, nordic walking in the fresh air: this is how you are able to reacquaint yourself with your body and discover the activity which you enjoy the most and that will provide you with long-term protection from circulatory disorders.

In cardiological rehabilitation we specifically direct our attention on improving the quality of life for patients with chronic vascular diseases. An enhancement of their ability to walk and their overall mobility, as well as qualified pain therapy, contribute to sustainable improvements in the daily lives of these patients.

Learning for a healthy life
An additional important focus of cardiological and angiological rehabilitation is the communication of knowledge about the patients’ own health situation. By means of talks and practical exercises, the participants discover possibilities for health promotion and how to deal positively with stressful situations. In so doing they can lay the foundation for a successful stay at the Clinic and for life beyond treatment.

The team at the Rehabilitation Clinic consists of experts from the medical, nursing, exercise therapy, psychological, dietary counselling, social work and occupational therapy fields.

In angiological rehabilitation we specifically direct our attention on improving the quality of life for patients with chronic vascular diseases. An enhancement of their ability to walk and their overall mobility, as well as qualified pain therapy, contribute to sustainable improvements in the daily lives of these patients.

Learning for a healthy life
An additional important focus of cardiological and angiological rehabilitation is the communication of knowledge about the patients’ own health situation. By means of talks and practical exercises, the participants discover possibilities for health promotion and how to deal positively with stressful situations. In so doing they can lay the foundation for a successful stay at the Clinic and for life beyond treatment.

The team at the Rehabilitation Clinic consists of experts from the medical, nursing, exercise therapy, psychological, dietary counselling, social work and occupational therapy fields.

» Cardiological rehabilitation helps patients to regain their strength after suffering from heart disease – for an active family, professional and recreational life. «

Dr. Christian Baumbach
Chief Physician Clinic for Cardiological and Angiological Rehabilitation

Options for different life situations

Reha PLUS, the activity programme for younger and active cardiovascular patients: targeted, precise dosages of physical activity for individual fitness improvement; a comprehensive basic knowledge about medical interrelations, risk factors and protection factors in preparation for a healthier professional, family and recreational lifestyle. Including tips and exercises for a successful, active way of life.

Eva PLUS, the treatment programme for women, to closely meet the requirements and expectations of women with regard to nutrition and cooking, sports and exercise, social skills and coping with medical conditions.

Intensified Aftercare, a 14-day aftercare programme, within the context of a self-financed stay in our Clinic, is the ideal way to refresh that which you were able to learn in rehabilitation: In this way you can regularly strengthen your personal abilities to exercise prevention.

Herzurlaub, a 5-day outpatient prevention course for self-paying patients: feels good and works – for life. A holiday with long-term effects for your medical health provides you with the chance of reducing the risks of a heart attack by up to 80%.

IRENA und Karena, outpatient rehabilitative aftercare programmes from pensioners insurers

» During angiological rehabilitation patients learn how to minimise disease-related constraints and to protect their health. «

PD Dr. Christian Kügler
Chief Physician Clinic for Angiology (acute/rehab)
Care for the individual as a whole – Competent, personal and beneficial

The high quality of medical services at the Cardiovascular Center Bad Bevensen is also a result of committed and highly qualified nursing. The medical service and the nursing service together form a well-coordinated team. Approximately 260 excellently qualified staff members are responsible for the individual care of our patients in the operating room, the intensive care units, the general wards and the Rehabilitation Center.

The aim lies in supporting patients on their way to a speedy recovery and self-reliance. By means of the principle of planned nursing, individual requirements are taken seriously and the particularities of each patient are treated with respect. Personal contacts are quickly established – beneficial in a potentially alienating environment.

Our intention: service for you
In order to make the stay of our patients as pleasant as possible, nursing service staff and voluntary “pink ladies” are there to care for your needs, in addition to the medical and nursing service. Duties such as patient transport, pick-up and delivery services, bed preparation and the sterilisation of instruments are taken care of by the service staff. Thereby the nursing staff is provided with enough time to care for the most important people at the Cardiovascular Center Bad Bevensen – the patients. The nursing staff are the first contact persons for all patient concerns. The wards are staffed around the clock, so that quick assistance is always available.

Friendly and attentive
Outstanding achievements in medical care – coupled with convenience and a personal atmosphere: this is what the staff at the Cardiovascular Center Bad Bevensen are committed to providing. We want to contribute as much as possible to the speedy recovery of our patients after a medical treatment, or the achievement of long-term improvements in their performance after their stay at the Rehabilitation Center. For example: by means of the friendly conversational tone which predominates at the HGZ or attention which is paid to small details. And naturally also by means of extras such as church services in the Clinic or our clinic chaplaincy, which provides patients with a conversational partner and a listening ear for any worries and concerns, independent of religious affiliation.

»The physicians and the nursing staff form a specialised and well-organised team together.«

Elisabeth Zahn
Nursing Director
Taking time to recover

Big-city clinic or individual specialist clinic?
First and foremost it is of course the quality of medical care which matters most. In this regard the HGZ has achieved an outstanding reputation, as an integrated center for cardiovascular medicine and academic teaching hospital. However, the surroundings also have an important impact on the positive progression of a stay at the clinic. Here at Bad Bevensen, many of our patients have a particular appreciation for the tranquility and the concentration on the essential factor of recovery.

In the spa town, in the midst of the delightful Lüneburg Heath, there are additionally, plenty of opportunities for shopping, rest and relaxation. Be it by car or by train: Bad Bevensen is easily accessible. Excellent traffic connections exist from Hamburg, Hanover or Bremen. We will gladly organise the arrival at and the departure from the clinic for our patients. The HGZ provides accompanying persons with the option of accommodation at the Clinic, including full board on request.

Overview of Clinics and Services at the HGZ

Medical practices at the HGZ
Cardiological Practice Bevensen
Dr. med. Arnulf Nötges
Dr. med. Wolfgang Aschenberg
Dr. med. Helmut Riesner

Vascular Practice Bevensen
Dr. med. Heinz-Georg Schnieder
Dr. med. Stephan Braun

Partners and independent quality auditors of the Cardiovascular Center Bad Bevensen
Clinic for Cardiology
Chief Physician Prof. Dr. med. Björn Andrew Rempis
- Right / left heart catheter examinations
- Transthoracic and transesophageal echocardiography (TTE/TEE)
- Heart examinations with multilayer computer tomography (MS-CT) and high-field magnetic resonance tomography (MRT)
- Myocardial biopsies
- Balloon dilatation and stent implantations (dilation of vascular blockages and implementation of vascular prostheses)
- Transcutaneous aortic valve replacement
- Electrophysiological aortic valve replacement

Clinic for Cardiothoracic Surgery
Chief Physician Prof. Dr. med. univ. Gerhard Wimmer-Greinacher
- Treatment for coronary heart disease/ bypass operations (total arterial vascularisation)
- Heart valve reconstructions and heart valve replacement in cases of heart valve diseases
- Catheter based heart valve implantations
- Surgical treatment of atrial fibrillation
- Surgical treatment of cardiac insufficiency (ventricle remodelling)
- Operations on the aorta close to the heart and the aortic arch
- Treatment of congenital cardiac defects in adult patients
- Minimally invasive cardiac surgery: bypass operations without a heart-lung machine, operations via small incisions (keyhole surgery)
- So-called hybrid procedures (interventions requiring the use of surgical as well as catheter interventional techniques)
- Thoracic surgery
- Research projects in the field of innovative minimally invasive surgical procedures (coronary surgery, heart valve surgery, heart rhythm surgery, minimally invasive heart-lung machine)

Clinic for Angiology
Chief Physician PD Dr. med. Christian Kügler
- Diagnosis, conservative and interventional treatment of arterial occlusive diseases e.g. intermittent claudication, smoker's leg
- Diagnosis, conservative and invasive treatment of venous thromboembolicms
- Diagnosis, interventional and conservative treatment of varicosis (varicose veins)
- Diagnosis and conservative treatment of chronic venous insufficiency
- Diagnosis and treatment of lymphatic diseases
- Conservative treatment of problematic wounds of the extremities, particularly in cases of diabetic foot syndrome
- Diagnosis and treatment of inflammation of the large arteries (vasculitis)

Clinic for Cardiac Rehabilitation
Director Vascular Center
Chief Physician Dr. med. Thomas Nolte
- Computer tomography
- Implementation of all conventional X-ray procedures
- Phlebographies (X-ray investigation of the veins)
- Application of vena cava screen filter
- Angiographies (X-ray investigations) of all vascular regions
- Balloon dilatation, local lysis, sympathetic nerve stimulations
- Stent implantations (incorporation of vascular prostheses)
- Embolisation (occlusion of diseased blood vessels)
- Laser therapy of vascular occlusions

Clinic for Open Vascular and Endovascular Surgery and Wound Center
Chief Physician Dr. med. Thomas Nolte, Director Vascular Center
- Operations on the carotid artery ("carotid")
- Open and endovascular interventions (TEVAR, EVAR) on the aorta in the thoracic and abdominal regions, including complex hybrid interventions (debranching operations) and interventions with mechanical cardio-vascular support
- Open and endovascular surgery in cases of arterial occlusive disease of the legs, including minimally invasive treatment procedures
- Operations on the intestinal and renal arteries in cases of vascular disease
- Reconstruction of vessels in the arms and shoulders
- Shunt surgery in cases of kidney failure, including implantation of peritoneal dialysis catheters
- Vein surgery in cases of complex complications in the region of the large vena cavae (thrombosis, foreign bodies, tumours) and treatment of varices
- Wound center with certified wound managers for the treatment of chronic wounds and complicated skin defects with wound consultation hours (out-patient referral treatment on instruction)
- Treatment of diabetic foot syndrome
- Computer tomography
- Implementation of all conventional X-ray procedures
- Phlebographies (X-ray investigation of the veins)
- Application of vena cava screen filter
- Angiographies (X-ray investigations) of all vascular regions
- Balloon dilatation, local lysis, sympathetic nerve stimulations
- Stent implantations (incorporation of vascular prostheses)
- Embolisation (occlusion of diseased blood vessels)
- Laser therapy of vascular occlusions

Clinic for Cardiological and Angiological Rehabilitation
Chief Physician Dr. med. Christian Baumbach, Chief Physician PD Dr. med. Christian Kügler
- Indications for cardiological rehabilitation
- Coronary heart disease after a heart attack
- Cardiac bypass surgery and all other cardiac interventions in adult patients
- Implantation of defibrillator systems with or without left ventricular stimulation
- Heart transplants
- Implantation of a left ventricular assist system
- Condition after acute treatment of cardiac insufficiency in cases of cardiomyopathy or myocarditis

Indications for Angiological Rehabilitation
- General anaesthesiology for establishing complete freedom of pain
- Local anaesthesiology (spinal anaesthesia, peridural anaesthesia, infraclavicular block, axillary block, sciatic nerve block, foot block)
- Pain therapy
- Monitoring of all important vital functions (OR and intensive care)
- Intensive care
- Central laboratory
- Supervision of the blood bank
- Opportunity for autologous blood donation
- Transfer escort for intensive care patients
- Emergency response service