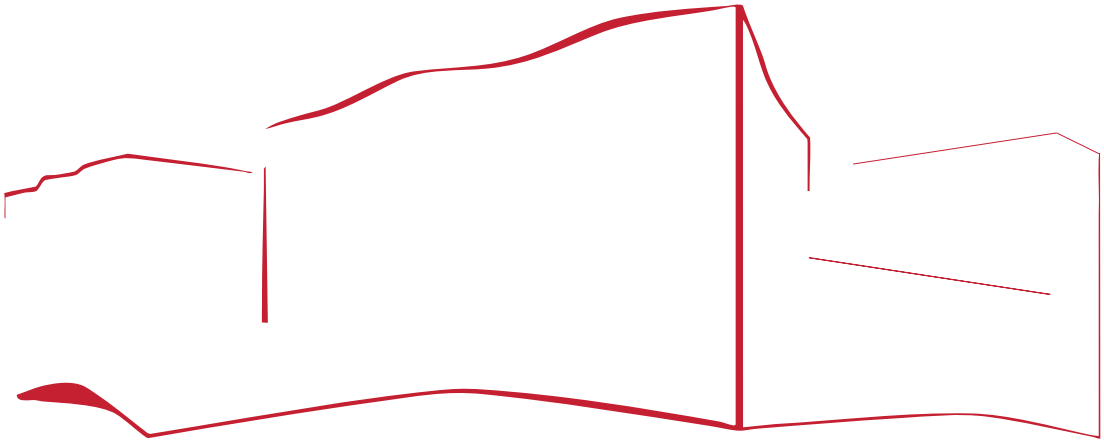
CENTRE HOSPITALIER
PRINCESSE GRACE



DONATION BOOK
CHPG

Every donation heals

Every donation helps to fund innovative equipment, support research and develop projects that make a real difference to patients' care.

CLOSE TO YOU, A LEADING HOSPITAL

Support our projects

By making a direct donation to the Princess Grace Hospital in order to:

- Support the quality of care and the comfort of patients and staff,
- Provide specific support to departments or for the treatment of specific conditions,
- Support research,
- Support medical training and education,
- Make a bequest.

direction.chpg@chpg.mc

Through the "Fondation des Amis du CHPG",
whose aim is to make the latest medical innovations accessible
and to provide:

- Access to state-of-the-art equipment,
- Access to therapeutic innovations.

fondationdesamischpg@chpg.mc

THE **FOUNDATION**

Created in 2013, this association, chaired by Her Royal Highness the Princess of Hanover, aims to support the implementation of innovative solutions for patient care and treatment at the CHPG, namely:

- Promoting the development of new techniques,
- Promoting the acquisition of state-of-the-art equipment,
- Contributing to the funding of projects and innovations in line with its purpose, either directly or indirectly by seeking patrons or sponsors.

EDITO

BENOÎTE ROUSSEAU DE SEVELINGES
CHPG DIRECTOR

The hospital is a place where life stories, moments of hope, and medical as well as human challenges come together every day.

Our responsibility is both to provide the highest quality of care today and to pave the way for the medical advances of tomorrow.

The handover of the hospital's new building at the end of the year will mark a significant milestone in the history of the Princess Grace Hospital. It will enable us to offer patients and staff modernised, more functional and more humane care environments.

But beyond this architectural transformation, the Princess Grace Hospital must continue to innovate, develop new projects and constantly improve the experience of patients and their loved ones. It is in this spirit that we have created this Donation Book, which presents several initiatives we wish to develop with the support of those who wish to join us in this endeavour.

Every contribution counts and enables everyone to help advance these projects in line with their own means, values and sensibilities.

To assist you with your support, Mrs Sophie AVON, Donations and Legacies Officer, is at your disposal.

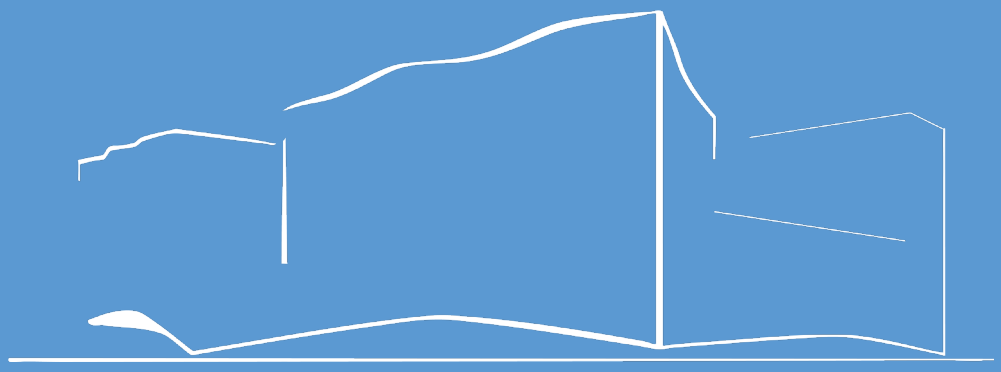
Contact : +377 97 98 77 56 or sophie.avon@chpg.mc

Le Directeur

Benoîte ROUSSEAU de SEVELINGES

SUMMARY

01.



INNOVATIVE EQUIPMENT

ENT AND ORTHOPAEDIC SURGERY

PRIORITY LEVEL 1

EXOSCOPE ORBEYE

PURPOSE :

To improve the precision and safety of surgical procedures while optimising the ergonomics for healthcare professionals and team training.

TOTAL COST OF THE OPERATION OVER 5 YEARS :

490 000€

Acquisition : 390 000€

Maintenance : 20 000€ / year

Consumables : 90€ / intervention

A major breakthrough for patients and healthcare professionals

External exoscope-type cameras represent a significant breakthrough in minimally invasive surgery. Thanks to very high-resolution 3D visualisation, they significantly improve the precision of surgical procedures normally performed under magnification (magnifying glasses or a microscope). They enhance patient safety and image quality; their innovative design reduces fatigue among medical teams and promotes optimal concentration throughout the procedure.

Sharing the 3D surgical image in real time with the entire team improves coordination and provides an excellent teaching tool. This technology therefore contributes to more precise and educational surgery.

Today, exoscopic microsurgery is gradually establishing itself as the new reference standard in surgical videomicroscopy.

Cutting-edge technology for precision

The ORBEYE exoscope features 4K Ultra High Definition 3D imaging, powered by two sensors that provide exceptional visualisation of anatomical structures, even at very high magnification.

The 3D image, with its exceptional clarity and natural depth, is displayed on an immersive 55-inch screen, placing the surgical team right at the heart of the procedure.

Its intuitive ergonomics and ease of use enhance surgical precision and contribute to safer patients' care.

Three key elements form the core of the ORBEYE system:

- **Ultra-compact orbital camera:** more space around the surgeon, greater freedom of movement and increased comfort.
- **55-inch 4K UHD 3D immersive screen:** a panoramic view shared by the entire surgical team.
- **Hands-free control:** wireless foot pedal control for optimal precision and smooth operation.

Tangible benefits for patients and healthcare professionals

For surgeons, the exoscope improves workplace ergonomics, promotes a natural posture and significantly reduces physical strain, particularly on the neck and shoulders.

For patients, this technology enables safer and less invasive procedures, promoting faster recovery and reducing post-operative risks.

A strategic investment for the Princess Grace Hospital

Suitable for use in ENT, orthopaedic hand surgery, reconstructive surgery, and in any speciality requiring a surgical microscope, the ORBEYE exoscope will enhance the appeal and reputation of the Princess Grace Hospital.

It will also serve as a major catalyst for staff training, the mentoring of young surgeons and the development of international collaborations.

By supporting the acquisition of an ORBEYE exoscope, you will enable the Princess Grace Hospital to fully embrace the era of augmented surgery and become the first ENT department in France to be equipped with this leading technology.

Heads of Departments: Dr Diane LAZARD et Dr Tristan LASCAR

PRIORITY LEVEL 1

PARATHYROID GLAND DETECTION SYSTEM

PURPOSE :

To help the surgeon identify the parathyroid glands during surgery in order to better preserve them and to reduce complications.

TOTAL COST OF THE OPERATION OVER 5 YEARS

(for 750 patients) **:**

412 360€

Acquisition : 28 000€

Maintenance : 1 872€ / year

Consumables : 500€ / intervention

(thus 75 000€ for 150 patients / year)

The parathyroid glands (PTH) are small endocrine glands attached to the thyroid. They play a vital role in regulating calcium levels in the body. During thyroid surgery, the surgeon must remove the diseased gland while preserving these tiny and sometimes difficult-to-identify structures. If they are damaged or removed by mistake, the patient may develop transient or permanent hypocalcaemia. The consequences include neurological disorders (confusion, depression), bone demineralisation (osteoporosis) and cardiac arrhythmias, requiring treatment that can be intensive and have serious consequences for the patient's quality of life.

The PTeye is an intraoperative parathyroid gland detection system that helps the surgeon to reliably identify the parathyroid glands during surgery. By instantly confirming the nature of the tissue being viewed, it enhances surgical safety and reduces the risk of damaging them. Thanks to this technology, the preservation of the parathyroid glands is significantly improved, which substantially reduces complications and directly contributes to a better quality of life for patients who have undergone surgery.

Principle of operation

The system utilises near-infrared (NIR) autofluorescence, a phenomenon whereby certain structures emit fluorescent light when excited by a specific wavelength.
A fibre-optic probe emits non-ionising light and detects the fluorescence emitted by the tissue suspected of being a parathyroid gland.
The device provides the surgeon with real-time visual and audible feedback, confirming the identity of the tissue.

Enhanced safety during surgery

The PTeye helps to confirm the identity of the parathyroid glands with a very high degree of accuracy (up to 96% accuracy in clinical studies), thereby enabling them to be preserved in their entirety, both anatomically and functionally.

Key benefits

- **Unique technological innovation:** the first intraoperative autofluorescence detection technology without the use of dyes. Completely harmless to the patient.
- **Improved patient safety:** rapid and reliable confirmation of parathyroid tissue to prevent serious post-operative complications.
- **Support for surgical practice:** useful for all levels of surgical experience, adding an extra layer of safety for medical teams

Head of Department: Dr Diane LAZARD

PRIORITY LEVEL 1

AI TO AID IN THE DIAGNOSIS OF BREAST, PROSTATE AND STOMACH CANCERS

PURPOSE:

To facilitate the diagnosis of cancer with reduced lead times thanks to AI

TOTAL COST OF THE OPERATION OVER 5 YEARS:

420 000€

Acquisition : 45 000€

Maintenance : 75 000€ / year

Solution: IBEX

The AI-powered Ibex platform helps pathologists diagnose breast, prostate and gastric biopsies.

The Ibex platform's algorithms analyse images of whole slides and provide AI results that help pathologists identify cancer, determine cancer classification and subtype, and detect many other malignant and non-malignant morphological features.

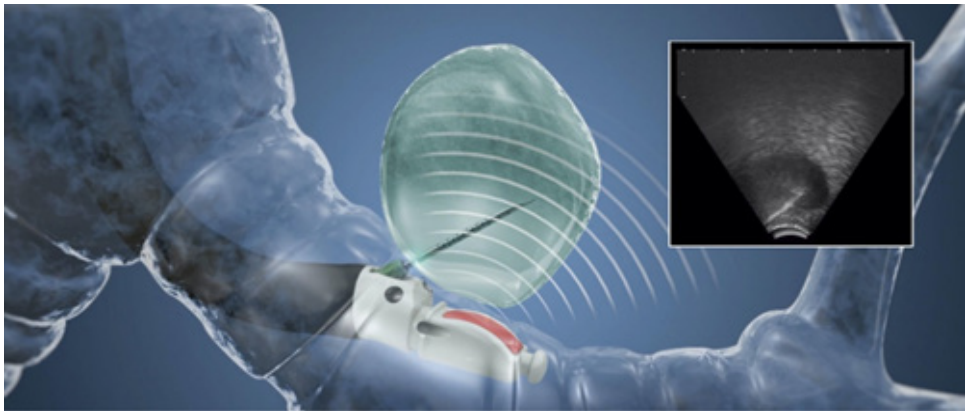
The Ibex platform also enables case prioritisation and rapid access to areas of interest, as well as streamlining tasks such as tumour measurement and reporting.

With the Ibex platform, laboratories can also implement AI-driven workflows to improve efficiency and reduce turnaround times.

Head of Department: Dr Florence DUPRE

PRIORITY LEVEL 1

BRONCHIAL PUNCTURE ECHO-ENDOSCOPE



PURPOSE:

To allow detailed examination of the airways and structures around the lungs

TOTAL COST OF THE OPERATION OVER 5 YEARS:

270 000€

Acquisition : 140 000€

Maintenance : 26 000€ / year

This piece of equipment combines endoscopy (visualisation of the bronchial passages) with ultrasound (ultrasound analysis of the lining and organs beyond the lining).

This procedure explores the bronchial tubes and, above all, the lymph nodes or lesions in the mediastinum (the area of the body around the bronchial tubes, between the lungs). During the examination, the surgeon uses a camera (endoscope) connected to a miniaturised ultrasound probe. Once the lesions have been identified, samples are then taken (aspiration of secretions, lymph node puncture ...).

This examination is used to help diagnose certain lung diseases or cases of lymph nodes in the mediastinum (mediastinal adenopathy). In particular, it is used to test for infections, cancers and chronic inflammatory lung diseases.
Echo-endoscopy is the most effective examination for detecting and analysing benign or malignant tumours and the surrounding organs.

This system enables us to acquire information that cannot be obtained by other methods of exploration. This equipment allows tissue fragments to be taken by puncture that can then be studied under the microscope.

Head of Department: Dr Cécile MAINCENT

CANCEROLOGY : BRONCHIAL ENDOSCOPIES

PRIORITY LEVEL 2

VIRTUAL BRONCHOSCOPIC NAVIGATION SYSTEM

PURPOSE:

To guide the practitioner in performing minimally invasive surgery to treat tumours

TOTAL COST OF THE OPERATION OVER 5 YEARS:

895 000€

Acquisition : 355 000€

Maintenance : 16 000€ / year

Consumables : 40 patients / year (2 300€)

It is an image-guided navigation system. Its purpose is to access tissue samples for biopsies of lung lesions in people suspected of having lung cancer. This technology is also known as virtual navigation bronchoscopy. The system integrates bronchoscopic images, CT data and merged fluoroscopic images to provide a real-time reconstructed airway.

The system generates a 3D image during the procedure to access nodules anywhere in the lung. The bronchoscope enters the lungs through the central airway. The system creates a path through the lung parenchyma, avoiding blood vessels, directly to the peripheral lesion, which can be removed or treated.

The system also uses the patient's high-resolution CT scan to create a virtual representation of his airway. This allows the physician to select the nodule of interest and see a navigation route to it. The system shows the complete vascularity of the lung so the doctor knows if he or she is taking the sample safely without puncturing the pleura.

Head of Department: Dr Cécile MAINCENT

CANCEROLOGY : DIGESTIVE ENDOSCOPIES

PRIORITY LEVEL 2

ÉCHOENDOSCOPE DE PONCTION

OBJECTIF :

To explore in detail the digestive tract and surrounding organs

TOTAL COST OF THE OPERATION OVER 5 YEARS:

290 000€

Acquisition : 160 000€

Maintenance : 26 000€ / an

This is a piece of equipment that combines endoscopy (visualising the inside of the digestive tract) with ultrasound
(ultrasound analysis of the lining and organs beyond the lining). An ultrasound probe is brought close to the organ to be studied using an endoscope. It is used to search for or explore lesions in the digestive tract or neighbouring organs.

Echo-endoscopy is the most effective examination for studying the lining of the oesophagus, stomach or duodenum
(to search for and analyse benign or malignant tumours) and the surrounding organs.

The system can also be used to look for the presence of stones, cysts or tumours in the bile ducts and/or pancreas. It provides information that would not have been obtained by other methods of exploration. This equipment allows tissue fragments to be taken by puncture that can then be studied under the microscope.

Head of Department: Dr Antoine CHARACHON

PRIORITY LEVEL 1

ECHOLASER TPLA

PURPOSE:

To selectively destroy pathological prostate tissue whilst avoiding damage to the rest of the gland and adjacent structures.

TOTAL COST OF THE OPERATION OVER 5 YEARS:

240 000€

Acquisition : 70 000€

Maintenance : 10 000€ / year

Consumables : 1 200€

(thus 24 000€ pour 20 patients / year)

This project is based on the introduction of an emerging technique for the focal treatment of prostate cancer, using Focal Laser Ablation (FLA) performed with the EchoLaser TPLA System, distributed by the Monegasque company Rocamed. This technology is intended to complement and, in the long term, replace the focused ultrasound treatments currently carried out at the Princess Grace Hospital Centre using the Focal One system.

Although still not widely implemented in Europe, this solution would represent an innovative and distinctive technological offering at regional level, providing a significant advantage in terms of:

- access to therapeutic innovation,
- improved care for patients with localised prostate cancer,
- medical appeal.

The introduction of this technology would therefore enable the Princess Grace Hospital to strengthen its position in minimally invasive focal therapies in urological oncology.

Focal Laser Ablation (FLA) involves the targeted thermal destruction of prostate tumour tissue using laser energy.

The treatment involves:
- the percutaneous insertion of optical fibres via the perineal route,
- precise guidance using MRI–ultrasound image fusion,
- the application of laser energy for a few minutes to heat the tumour tissue until it is completely destroyed, with an adequate safety margin.

The optical fibres are inserted through very fine needles, allowing for precise positioning within the prostate lesion.

Focal lesions located at a distance of ≥ 1 cm from the urethra and the bladder neck can be treated with one or two laser treatments, depending on the size and configuration of the tumour.
The system uses a needle-guided device that allows the applicators to be positioned within the lesion with millimetre precision.

This approach allows only the cancerous tissue to be treated, while preserving the rest of the healthy prostate.

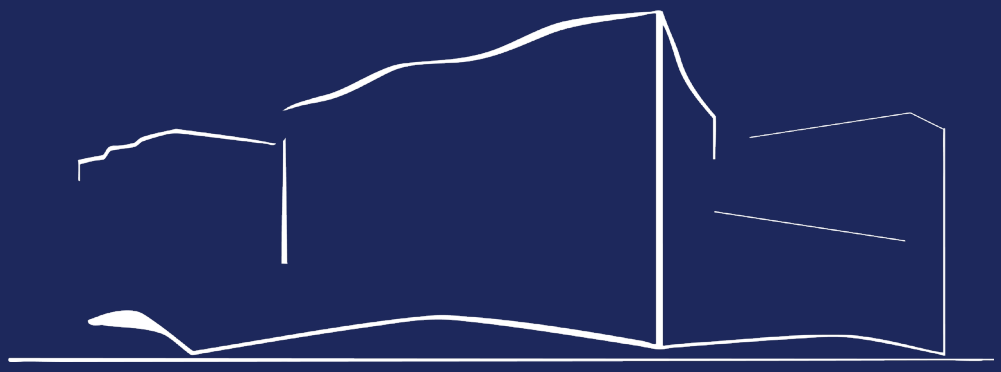
The aim of Focal Laser Ablation is to achieve complete ablation of the targeted prostate tumour.

Focal Laser Ablation offers numerous clinical and organisational benefits, making it a particularly attractive option for the treatment of localised prostate cancer.

This enables:
- a minimally invasive technique,
- procedural safety and predictability of treatment,
- rapid recovery,
- preservation of function,
- preservation of tissue.

Head of Department: Dr Xavier CARPENTIER

02.



STATE-OF-THE-ART EQUIPMENT

HIGH-DEFINITION VIDEO-SURGERY SYSTEMS

PURPOSE:

Three high resolution images for more accurate and efficient operation.

TOTAL COST OF THE OPERATION OVER 5 YEARS:

180 000€

Acquisition maternity unit : 100 000€

Acquisition ENT unit : 80 000€

4K imaging: The resolution offered by these 4K endoscopic cameras is four times higher than traditional systems. The number of pixels is quadruple that of Full HD. These innovative cameras equipped with an electronic zoom are able to display far greater detail without any risk of damaging the organs in the process. The image quality of the 4K format goes hand in hand with much more faithful colour rendition. The calibration of these same colours is finer with a greater number of shades possible. The details of organs, blood vessels or nerves are much more visible. Reproduced on screen during the operation, these high-resolution images facilitate the execution and precision of the surgical procedure. The surgeon is truly immersed in the image.

3D imaging: Three-dimensional vision is ideal for surgical procedures requiring extreme precision and an excellent perception of space. It enhances positioning accuracy, provides a detailed view of the area and improves hand-eye coordination. It provides a clearer view of adjacent anatomical structures and therefore protects them as much as possible. It provides laparoscopic surgery with even greater precision, speed and efficiency.

Fluorescence imaging : The use of indocyanine green (ICG) enables anatomical structures to be made visible, using light with wavelengths ranging near infrared, allowing better visualisation of blood circulation, the lymphatic system or even carcinomas and liver metastases.

PRIORITY LEVEL 1

DA VINCI GEN5 SURGICAL ROBOT

PURPOSE:

Enable surgeons to perform highly complex procedures with unprecedented precision, safety and efficiency

Acquisition : 2 790 000€

Maintenance : 282 000€ / year

Consumables : 2 270€ / intervention

(thus 374 000€ for 165 patients / year)

Robot-assisted surgery has revolutionised the medical field by offering unrivalled precision and control. The Da Vinci Gen5, the latest generation of the Da Vinci system developed by Intuitive Surgical, takes technological advances in minimally invasive surgery a step further. Thanks to its improved ergonomics, state-of-the-art instruments and integrated artificial intelligence, it represents a major breakthrough for surgeons and patients alike.

Cutting-edge technology supporting surgical teams

The Da Vinci Gen5 is a state-of-the-art surgical robot designed to assist surgeons during complex minimally invasive procedures. It consists of three main components:

- **The surgeon's console :** an ergonomic interface from which the surgeon controls the robotic instruments, benefiting from high-definition 3D vision and extremely precise control over movements.
- **The patient trolley:** equipped with articulated robotic arms capable of movements that are more precise and have a greater range of motion than those of the human hand.
- **The advanced imaging system:** a high-definition 3D camera providing an immersive and detailed view of the surgical field.

This new generation brings significant improvements: even smoother movements thanks to reduced latency, more precise and manoeuvrable instruments, haptic feedback that enhances tactile perception, and the integration of artificial intelligence solutions to improve safety and assist with surgical procedures.

Tangible benefits for patients and professionals

For patients
Robot-assisted surgery allows for smaller incisions, resulting in less post-operative pain, fewer complications and a reduced risk of infection. It also promotes a faster recovery, with shorter hospital stays and a quicker return to everyday life.

For surgeons
Thanks to its articulated robotic arms, the Da Vinci Gen5 enables extremely precise tissue manipulation, significantly reducing the risk of accidental injury. Its high-definition 3D vision, combined with an advanced motion stabilisation system, reduces tremors and enhances the precision and safety of surgical procedures.

A versatile, multidisciplinary tool

The Da Vinci Gen5 can be used across a wide range of surgical specialities, including:*
- **Urological surgery** (prostatectomy, nephrectomy, cystectomy...),
- **Gynaecological surgery** (hysterectomy, severe endometriosis...),
- **Digestive surgery** (colectomy, bariatric surgery...),
- **Thoracic surgery** (lung lobectomy).

Thanks to its precision and advanced features, it enables procedures to be carried out that would be more complex, or even riskier, using conventional surgical techniques.

A scalable, future-oriented platform

With computing power far superior to previous generations, the Da Vinci Gen5 is designed as a scalable platform. It will be able to gradually incorporate new software features, particularly those related to artificial intelligence and machine learning, thereby keeping pace with developments in surgical practices over the years.

The Da Vinci Gen5 represents a breakthrough in robot-assisted surgery, offering unrivalled precision, greater comfort for the surgeon and significant benefits for patients. The quality of care is improved while optimising the efficiency of procedures. In the era of precision medicine, this robot marks a new step towards safer, more effective and less invasive surgery.

Head of Department : Prof. Fabrizio PANARO

GERIATRIC FOLLOW-UP & REHABILITATION CARE : CENTRE RAINIER III

PRIORITY LEVEL 1

MARCHING ANALYSER

PURPOSE:

To measure and analyse the biomechanical parameters of a patient's gait and adapt treatments or therapeutic interventions.

TOTAL COST OF THE OPERATION OVER 5 YEARS:

80 000€

Acquisition : 55 000€

Maintenance : 5 000€ / year

KinTracK® is a medical device for quantified visual gait analysis.

In the form of a trolley with a computer and camera, this solution measures the main spatio-temporal parameters of gait, performs kinematic analysis and provides a platform for visual analysis using 2D and 3D videos.

This device contributes to an objective and accurate assessment of the gait of elderly patients, enabling early detection of locomotor disorders.

It helps diagnose and monitor neurological conditions such as Parkinson's disease, stroke and multiple sclerosis.
This precise screening of disorders enables personalised rehabilitation plans to be drawn up, with an impact on the risk of falls and fractures.

In the post-fall phase, KinTracK® helps with functional recovery, with objective evaluation of therapeutic interventions.

Head of Department: Dr Sandrine LOUCHART DE LA CHAPELLE

PRIORITY LEVEL **2**

CRYOABLATION PROCEDURE

PURPOSE:

To destroy abnormal tissues, such as tumours or lesions, by exposing them to extremely low temperatures

TOTAL COST OF THE OPERATION OVER 5 YEARS:

300 000€

(for 10 procedures / year)

Cost of procedure : 6 000€

Medical imaging is becoming an increasingly important part of the healthcare sector. Continuous advances in imaging techniques allow earlier and more accurate detection of disease, for more targeted, less invasive treatment and close monitoring of therapeutic response.
Ablation techniques have been added to the therapeutic arsenal to treat and destroy tumours and metastases that were previously difficult to operate on. Two techniques complement each other in oncological treatment : cryoablation and radiofrequency.

Cryoablation, which is performed under local anaesthesia, is a minimally invasive approach derived from oncological interventional imaging. It consists of inserting a hollow needle, about fifteen centimetres long, guided by scanner into the tumour. The temperature (- 100°C) at its tip will gradually bring the cancerous cells to destruction while respecting the surrounding tissue. The radiologist, thanks to the visualisation of the needle on the scanner images, can control the zone of tissue destruction in real time.

The tumour detected at an early stage can thus be destroyed without any other treatment being necessary for the patient.

Head of Department: Dr Mathieu LIBERATORE

CANCEROLOGY : DIGESTIVE ENDOSCOPIES

PRIORITY LEVEL **2**

SPYGLASS DIRECT VISUALISATION SYSTEM

PURPOSE:

To detect, localise and assess any abnormalities by direct visual exploration of the bile ducts and biliary tree.

TOTAL COST OF THE OPERATION OVER 5 YEARS:

180 000€

(for 12 procedures / year)

Cost of procedure : 3 000€

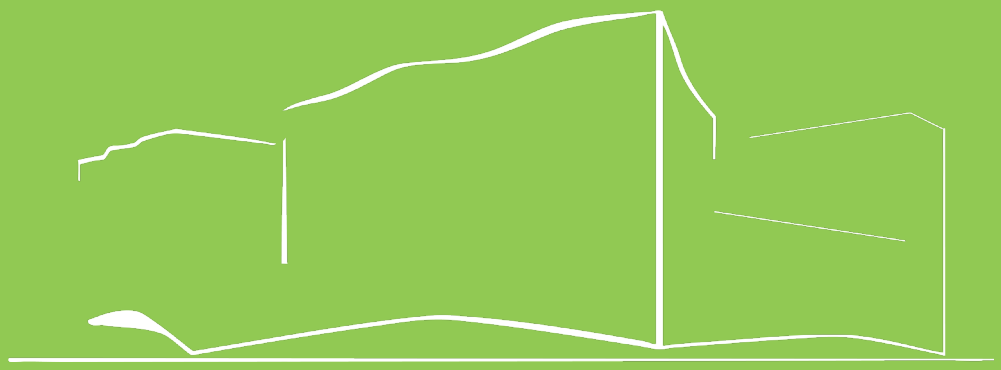
The Spyglass (Boston Scientific) allows cholangioscopy or pancreatoscopy to be performed by introducing a scopy probe during a ductal catheterisation. It also allows biopsies or lithotripsy to be performed using specific forceps.

It is the first single-operator and single-use cholangioscopy system. It has two dedicated irrigation channels, an optical channel and a 1.2 mm diameter operator channel.

It is primarily used to take samples to confirm the diagnosis of a tumour, when this has not been possible using conventional methods.

Head of Department: Docteur Antoine CHARACHON

03.



COMPLEMENTARY CARE FOR PATIENTS' WELL-BEING

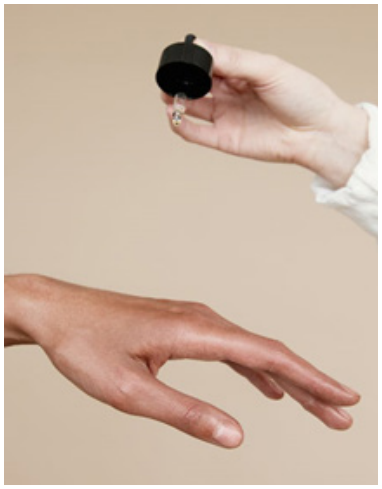
Supportive and palliative care aim to ensure the best possible quality of life for patients, in physical, psychological and social terms. They take into account the diverse needs of patients, as well as those of their families and friends.

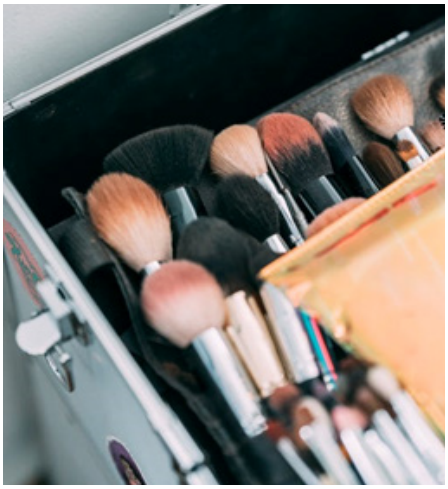
At the Princess Grace Hospital, this care addresses needs that primarily concern the management of pain and fatigue, but also nutritional issues, psychological support, disturbances in self-image, and social support. Caring for a patient holistically requires a range of different skills; in hospital, this care is provided by multidisciplinary teams working in oncology wards (dietitians, pain specialists, physiotherapists, psychologists and socio-aestheticians...).

However, the current funding models of our healthcare systems do not allow for their development, which limits access to these services for the majority of patients, despite the efforts made by healthcare professionals and institutions.

Therefore, to encourage the expansion of supportive and palliative care in oncology beyond current practice, the Princess Grace Hospital wishes to rely on donations and public generosity to fund the most innovative initiatives for the benefit of its patients.

SOCIO-AESTHETIC





Cancer treatments have an impact on the body and on the skin. These consequences vary greatly depending on the treatment and the individual.

PURPOSE:

To develop onco-aesthetic care for Princess Grace Hospital's patients

Socio-aesthetic sessions: 45 000€ / year

The socio-aesthetician or psycho-socio-aesthetician is a beautician trained in the specificities of the disease, the treatments and their consequences on the body and the psyche. Through care and advice, the onco-aesthetician helps to reduce or better accept them. The treatment is a bubble of relaxation which allows the patient to keep a benevolent link with himself. The objective is to allow the patient to reclaim his or her body and to test the gaze of others.

Facials and hand treatments bring hydration and self-confidence. Advice on make-up, hair prostheses or scarves is invaluable in dealing with the absence of hair; during massages, the patient reclaims his or her body.

The medical teams have found that these treatments also have physiological benefits: lowering of hypertension and
muscle tension, general relaxation, reduction of nausea, better acceptance of treatments and, above all, they improve the psychological state. Oncology nurses are also trained in image and aesthetics to provide advice and well-being to patients.

The funding of a socio-aesthetician post from donations should make it possible to offer this supportive care free of charge to all patients treated in oncology at the Princess Grace Hospital who wish to receive it, in a reassuring setting with specifically trained staff.

DERMAPIGMENTAION

PURPOSE:

To offer access to a dermopigmentation service to improve self-image.

Dermapigmentation sessions : 15 000€ / year

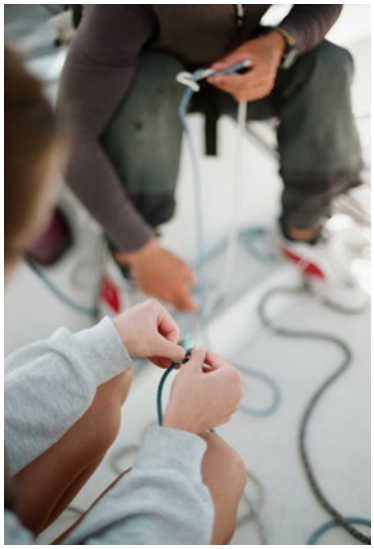
The aim of medical care in chemotherapy is to obtain a cure for patients, with innovative treatments that are increasingly targeted and personalised. However, these treatments generate undesirable effects, which, although they are increasingly well managed at the Princess Grace Hospital with the development of supportive care, have deleterious effects on the psyche of patients.

One of the most deleterious is the loss of eyebrows following chemotherapy treatments. This phenomenon has the consequence of modifying the morphology of the face and creates, as a result, a major inconvenience for patients in resuming their professional activities, as well as in their daily life.

The objective of the medical and nursing teams of the Princess Grace Hospital is to be able to finance, thanks to donations, an innovative service for patients, which is not covered by the current health systems, in order to carry out a «dermopigmentation» or tattooing of the eyebrows, even before they fall off, in order to obtain the best result.

The Princess Grace Hospital has already paid for the training of specialist nurses to carry out this type of service, the development of which is running into problems of affordability for patients, given that the cost of a tattoo is 100€ (30€ sterile needles and 70€ pigments specific to the medical field).

WATER SPORT ACTIVITIES



PURPOSE:

To offer water sports activities as part of an adapted and progressive physical activity programme defined in conjunction with the medical and nursing team.

Cost for water sport activities: 15 000€ / year

Adapted physical activity allows people who, due to their condition, cannot practice this activity in usual conditions to get moving. It responds to the specific health needs of each person and is not limited to sports but includes all
activities of daily life: domestic tasks, work, transport, leisure.

Physical activity is the energy expended during movement.

Adapted physical activity improves general health, morale, quality of life, and psychological and emotional state; it reduces the level of fatigue by about 30 %, regardless of when the cancer is treated. Adapted physical activity has a good impact on self-image and self-confidence and also allows better compliance with treatment. These benefits have been demonstrated for many cancers.
Adapted physical activity also aims to regain control of one's daily life and to facilitate the return to sport in ordinary conditions and to a social life after the disease.

The Princess Grace Hospital wishes to offer an innovative framework to accompany oncology patients who wish to return to sport, by proposing water-based activities in partnership with the Principality's sports institutions and associations and the surrounding municipalities.

SENIOR HEALTH ACTIVITY COURSE

THERAPEUTIC PURPOSES:

- To maintain autonomy ;
- To engage in regular physical activity ;
- To increase the outdoor walking space of a closed unit ;
- To prevent falls ;
- To maintain muscle tone ;
- To maintain joint flexibility ;
- To help to increase appetite and to establish better transit ;
- To maintain a more efficient cardiac and respiratory capacity ;
- To preserve walking ability in people with Alzheimer's disease or related disorders ;
- To prevent loss of autonomy and to preserve remaining capacities.

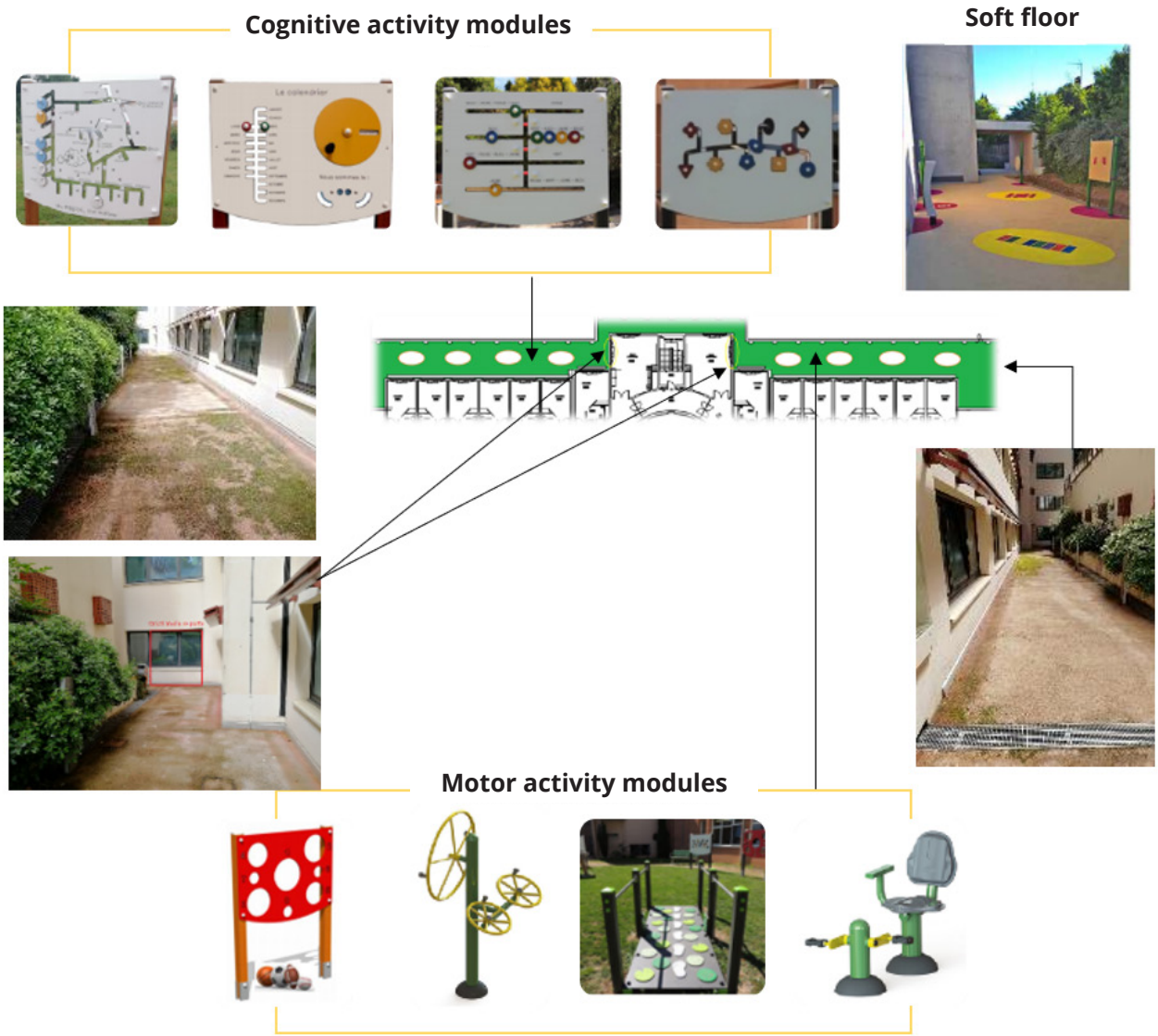
Financial evaluation of the project: 200 000€

(Implementation date: 18 months)

This project aims to offer patients over 60 years old in the Denis Ravera Unit of the Centre Gérontologique & Clinique Rainier III, who present cognitive and/or behavioural disorders such as:

- Alzheimer's disease or a related syndrome ;
- Aberrant motor behaviour ;
- Acute and productive behavioural disorders.

PROJECT



DESCRIPTIVE

1. Floor of the corridor, with the installation of a shock-absorbing floor on the entire green part of the plan ;

2. Integration of 4 modules for motor activities and 4 modules for cognitive activities ;

3. Installation of opaque films on the windows of the rooms to guarantee the privacy of the patients ;

4. Creation of two external accesses, secured by access control.

ART THERAPY

PURPOSE:

To offer art therapy sessions to patients

Cost for 3 hours per week: 8 000€ / year

It is not always easy to express in words the feelings of the disease. Using creativity and the imagination, art therapy offers a supportive approach with adapted artistic proposals to help the patient better integrate the illness into his or her life.

Art therapy provides a space of support protected from the gaze and judgement to regain one's bearings at one's own pace, along a creative pathway that takes place during the course of the illness or after the treatments.

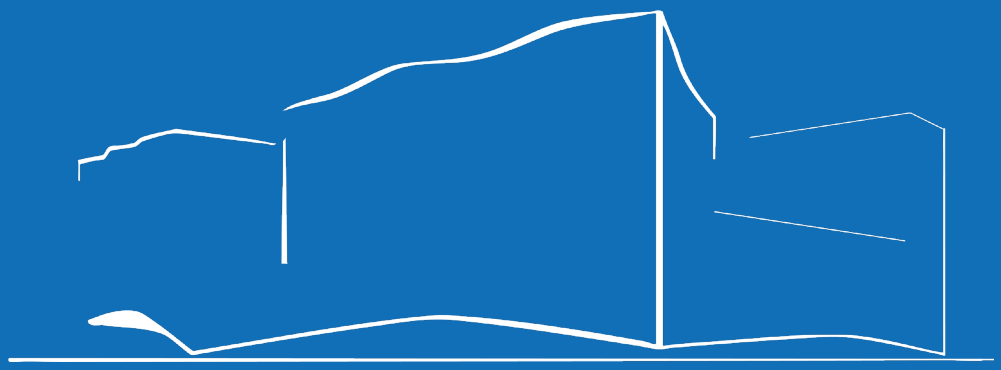
Painting, drawing, writing, dance, storytelling, theatrical games, music or singing (...), the artistic practices offered are designed in a complete system which, in a gentle way, re-mobilises energy, identity, body image and accompanies towards a better well-being.

Tailor-made and depending on the context of the care, these art therapy workshops can be organised in groups or individually. The length of the proposed session can vary according to the energy level of the participants and the context of the treatment.

Art therapy programmes can be offered within the departments, most often by associations. They are discussed with the care teams. The doctor or psychologist proposes this support to the patient.

These programmes are run by specially trained and qualified art therapists.

04.



CLINICAL RESEARCH DEVELOPMENT

Alongside prevention, care and education, clinical research is one of the core missions of the Princess Grace Hospital, thereby contributing to the evaluation of new medicines, medical devices, methods of administration, and new diagnostic or treatment techniques.

Clinical research is a driver of improved quality of care as it broadens access to treatment by offering patients the opportunity to access therapeutic innovations and molecules prior to their marketing authorisation, within the framework of a controlled and scientifically validated process.

Furthermore, clinical research offers opportunities in terms of attractiveness, serving as a key criterion for recruiting high-calibre medical and paramedical teams.

Since 2009, the Princess Grace Hospital's research organisation has gradually taken shape. Currently, the clinical research team comprises four clinical research associates and one clinical research physician. Around a hundred research projects are currently underway.

The development of clinical research at the Princess Grace Hospital is underpinned by existing partnerships with external organisations, notably the Nice Hospital University, the Antoine Lacassagne Centre and the Côte d'Azur University, and involves all medical and scientific stakeholders in the Principality, including the Scientific Centre of Monaco. Indeed, every research project initiated by a practitioner at the Princess Grace Hospital requires specific investment in terms of human, technical and technological resources.

Several projects are in the final stages thanks to the support of generous donors:

- **The SPECTRE clinical trial,** which is investigating a management strategy **for unstable coronary plaque** in patients admitted to ER with chest pain suspected to be caused by coronary artery disease.

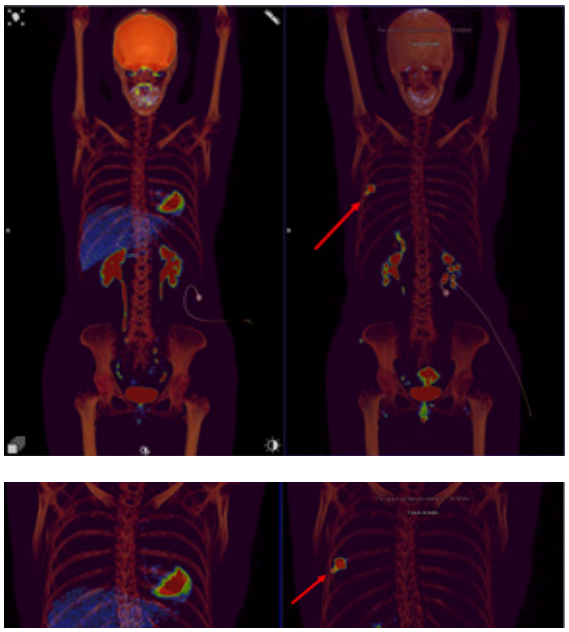
- **The SPOT clinical trial,** which focuses on the management of **perioperative stress through L-tyrosine supplementation** in patients undergoing outpatient gastrointestinal surgery such as inguinal hernia repair and cholecystectomy.

Other projects still require funding:

The Galilée study: a major breakthrough in detecting hard-to-detect breast cancer

Did you know that some types of breast cancer are particularly difficult to detect using conventional imaging techniques? This is the case with lobular cancer, a subtype of breast cancer that accounts for around 10 to 15 per cent of diagnoses.

To identify them more effectively, a new imaging technique is being studied: **PET scanning with FAPI** (a tracer targeting a specific protein in the tumour microenvironment). Thanks to an initial donation, the Galilée study was able to begin in 2023 at the Princess Grace Hospital in Monaco, ahead of other French studies using FAPI for other types of breast cancer.



A one-of-a-kind study
The Galilée study is the **only prospective study** in the world to specifically evaluate imaging of lobular breast cancer using FAPI, a tracer currently restricted to clinical research, imported from a US start-up. This breakthrough could transform the care of many patients.

Why is this a breakthrough?
The FAPI PET scan can sometimes detect lesions that are invisible on a conventional (FDG) PET scan, as shown in the example below of a patient with a tumour in her right breast. The two scans were performed one day apart, illustrating the potential superiority of this new method.

Between November 2023 and September 2025, 40 women have already benefited from this innovation by taking part in the Galilée study. However, funding for the study has not yet been fully secured.

The ESTROTEP study : Lobular breast cancer : what if the recurrence is hidden?
Lobular breast cancer can recur silently, without any obvious symptoms. Sometimes, the only warning sign is a slight increase in a tumour marker in a blood test.

Locating the site of the recurrence often remains a challenge for doctors.

Following on from the Galilée study, the EstroTep study aims to evaluate two innovative molecular imaging techniques to locate occult recurrences of lobular breast cancer in 25 patients:

- **FAPI PET** (already tested in Galilée), which targets tumour-activated proteins.
- **Oestrogen receptor PET,** which identifies hormone-sensitive cancer cells.

These two methods could enable the earlier detection of recurrences, even when they are not visible on standard scans.

Why is this a major breakthrough?
For patients, this offers the prospect of earlier intervention and more targeted treatment.

A world first
EstroTep is the first prospective study to directly compare PET with FAPI and oestrogen receptor PET for lobular breast cancer.

The RADAR clinical trial involves patients being treated with rituximab for rheumatoid arthritis. To reduce certain side effects of this treatment, the aim is to test a reduced dose that maintains a similar level of efficacy against the disease. If the results are favourable, this new treatment regimen could be adopted for all patients. The study will begin in 2026, and 20 patients are expected to take part at the Princess Grace Hospital.

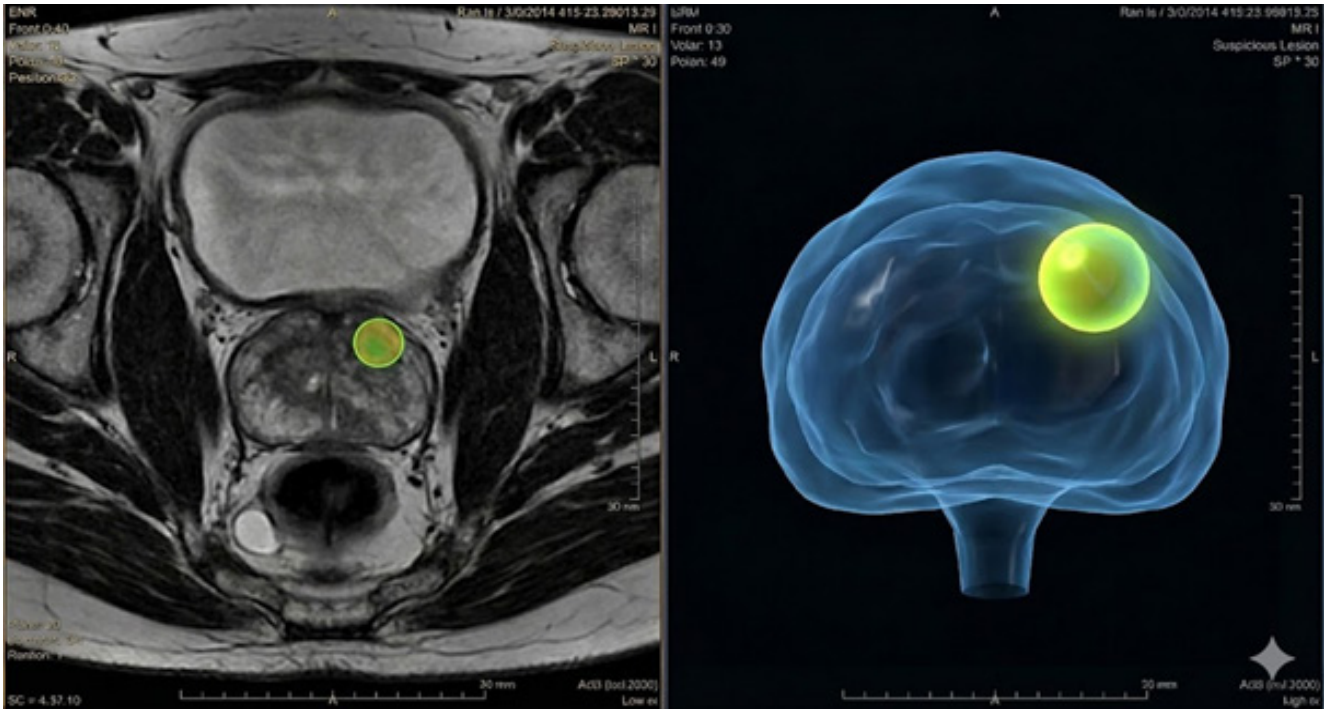
The NIRVANA-Lung clinical trial **compares the 1-year overall survival rate between treatment with pembrolizumab and chemotherapy versus treatment with pembrolizumab, chemotherapy and radiotherapy** in patients with non-small cell lung cancer. Eight patients were enrolled at the Princess Grace Hospital and the enrolment period has now closed. Participants are still being monitored and additional funding is required.

A project currently under feasibility assessment, in collaboration with Scalian:

Although prostate MRI is currently the gold standard examination in cases of abnormal PSA levels or digital rectal examination findings, its conventional interpretation has inherent limitations: viewing two-dimensional slices requires complex mental reconstruction, increasing the risk of missing a significant cancer or underestimating the extent of a subtle lesion.

To overcome these obstacles, our research project aims to design an artificial intelligence algorithm capable of generating an accurate three-dimensional model of the gland.

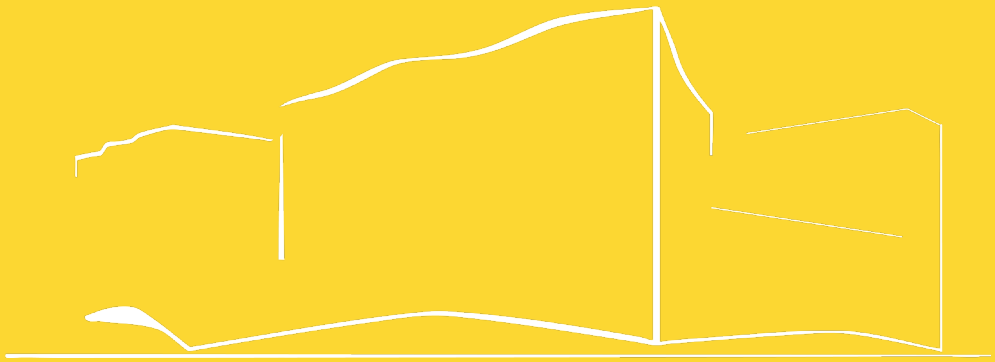
This work is based on a retrospective analysis of 250 MRI scans, where the manual contouring of prostate volumes and suspicious areas — requiring around 100 hours of radiological expertise — will be used to train a neural network to automate the detection of areas of cancerous susceptibility. It is also being carried out in collaboration with an industrial partner, the Scalian Group, which specialises in the creation of predictive models generated by artificial intelligence.



This 3D model offers two key benefits: diagnostic and therapeutic. In clinical practice, this tool will provide an immediate spatial representation of lesions, far superior to standard imaging, enabling targeted biopsies to be guided with millimetre precision and reducing sampling errors.

Beyond diagnosis, this virtual mapping is essential to the development of focal therapies: it will enable the treatment of aggressive cancerous lesions alone whilst sparing healthy tissue, thereby minimising urinary and sexual functional sequelae for the patient.

05.



QUALITY OF LIFE AT WORK

ANIMATION OF A FITNESS AREA

PROJECT OBJECTIVES:

- To enable the free practice of a variety of sports activities in the workplace: apparatus, muscle strengthening, yoga, stretching, Pilates, Qi Gong,
- To better manage the stress and anxiety associated with the care professions,
- To offer personalised support through the intervention of physiotherapists/coaches,
- To create a place to live, to exchange and to share, with the aim of developing team cohesion,
- To develop a sense of belonging to the establishment,
- To unite the teams around a common project.

Animation of the fitness area : 40 000€ / year

The Quality of Life at Work is a central approach to articulate the concerns of performance and working conditions.

In addition to the institutional approach to the development of QWL, the Princess Grace Hospital has been offering group classes in its fitness centre since March 2022, led by coaches, with the aim of encouraging physical activity, enabling staff to discover new activities and strengthening social ties.

Beneficiaries: all medical and non-medical staff at the hospital

TEAM BUILDING DAY

OBJECTIVES:

To use team-building activities to strengthen team cohesion, well-being and effectiveness within hospital teams, thereby improving both staff working conditions and the quality of care provided to patients.

Activities for 15 people: 5 000€ / journée

Examples of team-building activities:

- Collaborative workshops,
- Seminars,
- Co-development workshops,
- Immersive experiences,
- Simulation exercises...

Beneficiaries: all medical and non-medical staff at the facility

MULTISENSORY TROLLEY

PURPOSE:

To provide nursery children with a special opportunity to stimulate and explore their five senses, encouraging their curiosity, promoting their well-being and enhancing the quality of care they receive throughout their time with us.

Acquisition : 6 700€

The multisensory trolley, which serves as a valuable educational and well-being tool and supports children's overall development through sensory exploration, includes:

- An interactive bubble column,
- A video projector with a wide-angle lens,
- A UV LED light that highlights fluorescent elements in the room,
- Built-in audio equipment with Bluetooth,
- An interactive light panel.

It is suitable and safe for babies and children.

Objectifves :

- To stimulate and develop the five senses,
- To encourage exploration and discovery in a safe environment,
- To develop proprioception, coordination and attention,
- To foster motor skills development and the child's natural curiosity,
- To provide moments of rest and relaxation through soothing visual and sensory stimulation,
- To prioritise time for self-reflection,
- To provide children with an environment that promotes calm and emotional security,
- To foster relationships between children and adults, as well as interactions between children,
- To develop verbal and non-verbal communication.

Beneficiaries: children (aged 2½ months to 3½ years) of medical and non-medical staff attending the establishment's nursery

Nursery Manager : Mrs Judith GSTALDER-VEREZ

CENTRE HOSPITALIER
PRINCESSE GRACE

1, avenue Pasteur, 98000 Monaco
+ 377 97 98 99 00

www.chpg.mc

Find us

Updated regularly, the latest edition of this Donation Book is available as of March 2026.