

CANCER CARE BY DESIGN

INTERNATIONAL SYMPOSIUM

ROYAL COLLEGE OF PHYSICIANS, LIVERPOOL | 27 FEB 2024



EQUITABLE INNOVATION TRANSFORMING CANCER CARE FOR ALL

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**ROYAL COLLEGE
OF PHYSICIANS,
THE SPINE,
LIVERPOOL,
27 FEBRUARY 2024**

EQUITABLE INNOVATION: TRANSFORMING CANCER CARE FOR ALL

Cancer is a devastating disease, impacting individuals, families, communities and health systems across the world, and costing the world economy an estimated US\$1.6 trillion.

In the last 50 years, advances in life-saving cancer research and new treatments have helped to double cancer survival rates, yet 10m people still die from cancer globally every year, including 150,000 deaths in the UK alone.

As populations grow and age, overall cancer incidence is set to rise by more than a third by 2040, raising the pressure to implement long-term, strategic plans across the cancer pathway that focuses on prevention, reducing late-stage disease, and introducing the latest treatments to all.

Innovation and scientific advances, which have transformed the cancer landscape over the last ten years, are set to accelerate further. While chemotherapies, radiotherapies, and surgery have successfully characterised the battle against cancer for decades, new advancements, including the rise of personalised treatments, precision medicine and targeted therapies, are transforming both outcomes and the patient experience.

From pioneering immunotherapy and cell therapy research, such as CAR-T, and the development of genomic and personalised medicine, to next-generation cancer organoids, nanomedicine and artificial intelligence (AI) in oncology, we are in a transformative era of cancer research, with remarkable innovations paving the way for breakthrough treatments.

At the same time, there is ever-greater recognition and implementation of the value of social innovation rooted in communities through new forms of advocacy, destigmatisation, patient empowerment, survivor networks, and public health education. Alongside organisational innovations, a shift towards people-centred health and community-based interventions is creating meaningful benefit to patients and families.

Every stage of a patient's cancer journey, from diagnosis and treatment to learning how to live with cancer and survivorship, can create new fears, anxieties and stress for both patients and family members. Health professionals and caregivers working in cancer care environments also experience huge stresses and trauma. The settings and facilities in which cancer care is provided need therefore to offer a humanistic and supportive environment where wellbeing, dignity and comfort are embraced in the design to reduce physical, psychological and emotional stresses, and positively influence the patient, family and staff experience.

Providing access to outdoor spaces and views to nature, maximising daylight, natural ventilation and air quality, incorporating natural materials, and taking a thoughtful approach to interior design and art can ensure a calm, empathetic environment, at the same time as providing distraction and hope. And non-clinical support spaces for consultation, social support and rest can provide the patient and family members with a sense of dignity, choice, control and meaning in their journey.

Organised by European Healthcare Design and streamed on SALUS TV, in collaboration with leading international partners from research, practice and policy, the 2nd Cancer Care Design 2024 International Symposium aims to share international knowledge on the future design and development of cancer care services, technology, the arts, and infrastructure.

It will be held on 27 February at the Royal College of Physicians at The Spine in Liverpool, with study tours to benchmark new cancer centres on 26 and 28 February. We're delighted to invite delegates and sponsors to contribute to and stimulate a new dialogue on the future of cancer care by design.



JOHN COOPER
Director, JCA;
Programme chair, Cancer Care by Design



MARC SANSOM
Managing director,
SALUS Global Knowledge Exchange

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Page 2) 1 & 2. Fred & Pamela Buffett Cancer Center, HDR; 3. Northern Centre for Cancer Care, North Cumbria, P+HS Architects; 4. Princess Margret Cancer Centre Space Transformation Project, NORR Architects & Engineers and HPA Architects
Page 5) 1. Christie Paterson Cancer Research Centre, BDP; 2. The Royal Marsden Oak Cancer Centre, BDP
Page 6) 1. Maggie's Oldham, dRMM; 2. Maggie's Manchester, Foster + Partners
Page 7) 1. Christie Paterson Cancer Research Centre, BDP; 2. Clatterbridge Cancer Centre, Liverpool, designed by BDP; 3. North Block Expansion (Cork Cancer Centre), O'Connell Mahon Architects; 4. The University of South Australia Cancer Research Institute, BVN; 6. Cambridge Cancer Research Hospital, NBBJ;

AGENDA

Opening keynote session: Policy and strategy

Chair: Prof Nagesh Kalakonda, Chair of Experimental Haematology, University of Liverpool, UK

Platinum Health Leader

AECOM

- 09.00 **Welcome and introduction**
John Cooper, director, JCA; programme chair, Cancer Care by Design, UK
- 09.10 **Platinum Health Leader address: Equitable innovation by design**
Richard Mann, director, AECOM, UK
- 09.15 **Strategies to address the wider determinants of health in cancer care**
Prof Matthew Ashton, director of public health, Liverpool City Council, UK
- 09.40 **Cancer strategy and research by design**
Prof Tim Maughan, professor of oncology, University of Liverpool; prof emeritus, University of Oxford, UK
- 10.05 **Panel discussion**

10.30 Coffee and networking

Session 2: Research and social innovation: Transforming cancer care

Chair: Sunand Prasad, chair, UK Green Building Council; Perkins&Will, UK

Gold Design Leader

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- 11.00 **Innovation and the future of cancer care**
Prof Stephen Johnston, head of medical oncology, head of breast unit, professor of breast cancer medicine and consultant medical oncologist, Royal Marsden, UK
- 11.30 **Maggie's: Everyone's home of cancer care**
Laura Lee, CEO, Maggie's, UK
- 11.40 **Architecture of Hope: Maggie's, Oldham**
Alex de Rijke, founding director, dRMM, UK
- 12.10 **My journey with Maggie's: An interview with a Maggie's Centre visitor**
Kirsty Ruddin, centre visitor, Maggie's, UK

12.30 Lunch and networking

Session 4: Case exemplars: Designing cancer care and research environments

Chair: John Cooper, director, JCA; advisor, SALUS Global Knowledge Exchange, UK

- 13.30 **Christie Paterson Cancer Research Centre in Manchester**
Ged Couser, principal, BDP, UK
- 13.50 **Botton-Champalimaud Pancreatic Cancer Centre, Portugal**
Fernando Rodrigues, health planning principal, HDR, USA
- 14.10 **Cambridge Cancer Research Centre**
Julia Davies, senior associate – architect, NBBJ, UK; Colin Page, director, AECOM, UK
- 14.30 **Oak Cancer Centre, Royal Marsden**
Dominic Hook, architect director, BDP, UK
- 14.50 **Panel discussion**

15.15 Coffee and networking

Session 5: Arts in oncology

Chair: Vivienne Reiss, independent arts consultant, UK

15.45 **The role of art in enhancing and humanising cancer care**

As new models of care redefine the environments in which cancer care is experienced, arts professionals have been exploring how art can help create therapeutic environments and transform the experience for patients, carers, staff and wider communities. Early-stage involvement of artists can result in integrating art into the fabric of both hospital buildings and more holistically across the patient journey, from prevention, to diagnosis, treatment and survivorship. Our expert panel will discuss how innovative approaches to art can enhance and humanise cancer care, in and out of hospital. They will present art strategies, works and outcomes at different stages of development, exploring how to: use art to enable positive conversations about cancer and recovery; create a sense of place and narratives supporting the patient journey; develop multi-sensory experiences and connections with the natural world; and foster creative engagement contributing to co-design processes.

Panel: Ellen Nowak, arts programme manager, Cambridge University Hospital Arts, UK; Guy Noble, arts curator, UCLH Arts and Heritage, UK; Joanna Callaghan, artist filmmaker; professor of filmmaking, University of Sussex, UK; Hannah Jane Walker, artist, Cambridge University Hospitals NHS Foundation Trust, UK; Dr Lauren Walton, member, CUH Arts Steering Group; member, CCRH Patient Advisory Group, UK

17.00– **Final remarks**

- 17.15 **John Cooper, director, JCA; advisor, SALUS Global Knowledge Exchange, UK**

FEATURED SPEAKERS

Highlighted below are a few of the confirmed speakers who will discuss the future of cancer care services, technology, the arts and infrastructure.



PROF STEPHEN JOHNSTON
Head of medical oncology,
head of breast unit, professor
of breast cancer medicine and
consultant medical oncologist,
Royal Marsden, UK



DAME LAURA LEE
CEO, Maggie's, UK



PROF TIM MAUGHAN
Professor of oncology,
University of Liverpool;
Professor emeritus, University
of Oxford, UK



PROF MATTHEW ASHTON
Director of public health,
Liverpool City Council, UK



ALEX DE RIJKE
Founding director,
dRMM, UK



JULIA DAVIES
Senior associate –
architect, NBBJ, UK



GUY NOBLE
Arts curator, UCLH Arts
and Heritage, UK



FERNANDO RODRIGUES
Health planning principal,
HDR, USA



SUNAND PRASAD
Chair, UK Green Building Council;
Perkins&Will, UK



DOMINIC HOOK
Architect director,
BDP, UK



VIVIENNE REISS
Independent arts
consultant, UK



GED COUSER
Principal,
BDP, UK



ELLEN NOWAK
Arts programme manager,
Cambridge University
Hospital Arts, UK



JOANNA CALLAGHAN
Artist filmmaker;
Professor of filmmaking,
University of Sussex, UK



COLIN PAGE
Director,
AECOM, UK



HANNAH JANE WALKER
Artist, Cambridge University
Hospitals NHS Foundation
Trust, UK



DR LAUREN WALTON
Member, CUH Arts Steering
Group; member, CCRH Patient
Advisory Group, UK



STUDY TOURS

Study Tour Sponsor



Integrated Health Projects by



The Study Tours will visit the following cancer facilities:

Study Tour 1 – Monday 26 February, 14.15–19.30 (including travel time):

This tour will visit the Christie Paterson Cancer Research Centre in Manchester and Maggie's at the Robert Parfett Building, Manchester

Study Tour 2 – Wednesday 28 February, 08.45–16.00 (including travel time):

This tour will visit the Christie Paterson Cancer Research Centre in Manchester and Maggie's Oldham

If you are interested in participating on the tours, please e-mail info@europeanhealthcaredesign.eu.

Bookings will be subject to a fee of £45 + VAT and availability of places, with preference given to NHS trusts in the event of tours being oversubscribed.

The Study Tours are supported by Integrated Health Projects, a joint venture between Vinci Building UK and Sir Robert McAlpine.



Christie Paterson Cancer Research Centre in Manchester

Designed by BDP for the Christie NHS Foundation Trust, the University of Manchester, and Cancer Research UK, the £150m Christie Paterson Cancer Research Centre includes laboratories, research spaces, and consultant workspace. At more than 25,000 sq m and ten storeys high, the new building is more than twice the size of the previous facility, which was severely damaged in a fire. It promises to transform organisational adjacencies through co-location of research groups and clinicians.

It will be Manchester's scientific headquarters for discovery science, as part of the International Alliance for Early Cancer Detection, housing more than 300 scientists, 400 clinicians, and operational staff. They will deliver clinical trials covering the full extent of the patient pathway, from prevention and novel treatments to living with and beyond cancer. With a focus on early detection and diagnosis of cancer, the new Cancer Research UK Biomarker Centre will also form a central component of the building.



Maggie's at the Robert Parfett Building, Manchester

Designed by Sir Norman Foster of Foster + Partners, this Maggie's centre opened in 2016 in the grounds of the Christie Hospital in Manchester. Set in a peaceful garden, the existing green spaces inspired the centre's design, which draws on natural themes that engage the outdoors. The building is arranged over a single storey and the natural timber structure focuses around a wide, central spine, with the roof rising in the centre to create a mezzanine level beautifully illuminated with natural light. Exposed lightweight beams and timber lattice support the roof while also defining different areas in the open plan space. Smaller, private rooms are available along the side.

An integrated glass house extends from the south of the building, providing a space for people to gather and enjoy the therapeutic qualities of nature and the outdoors while being sheltered from the elements. Group creative writing and art sessions are often held here, as well as providing a space for people to sit and talk with each other. The surrounding gardens have been designed by landscape designer Dan Pearson, combining a rich mix of spaces, from the working glass house to bright clusters of flowers and tranquil water features. Deep canopies shelter the centre's open terraces from rain, allowing people to enjoy fresh air and the garden whatever the weather. Lord Foster said of the building: "This project has a particular personal significance, as I was born in the city and have first-hand experience of the distress of a cancer diagnosis. I believe in the power of architecture to lift the spirits and help in the process of therapy."



Maggie's Oldham

Designed by Alex de Rijke of dRMM, Maggie's Oldham opened in 2017 in the grounds of the Royal Oldham Hospital. It's believed to be the world's first engineered hardwood building, set across one storey and supported over its garden by steel legs. The interior is designed around a circular window, through which a tree rises up from the garden below. The exterior is clad in corrugated, thermally treated tulipwood, which has also been worked into cross-laminated timber to create the main load-bearing structure.

Door fixings are made from timber, too – a small touch that makes a big difference. This decision was informed by the peripheral neuropathy experienced by some cancer patients, which can make people extra sensitive to hot and cold surfaces, such as metal. The kitchen also features an enormous plank of walnut as a work surface. The internal space can be subdivided by a series of curtains, while the tree growing through the centre brings nature inside. The garden, designed by Rupert Muldoon, flows below the building into a walled and secluded woodland sanctuary. It takes inspiration from the surrounding Pennines to plant a textured, ephemeral wilderness, which is also ornamental and composed of highly scented flowers and shrubs. The greenhouse and potted herb garden offer a more social place, with the opportunity of some hands-on gardening for centre visitors.

*Tours are subject to change

REGISTRATION

A range of in-person and virtual-only tickets are available in two categories: Public Sector and Commercial. Registration is open now with Early bird savings until 16 February.

To register, please visit: www.cancercaredesign.global

In-person and virtual Group Discounts for 3 (10%); 5 (15%) or 10 (25%) persons on application at info@europeanhealthcaredesign.eu

In-person registration

Commercial rate:

Early bird rates (until 16 February, 2024): £325 (£390 inc. VAT)
Standard rates (from 17 February, 2024): £425 (£510 inc. VAT)

Public sector rate:

Early bird rates (until 16 February, 2024): £195 (£234 inc. VAT)
Standard rates (from 17 February, 2024): £295 (£354 inc. VAT)

Virtual registration

Early bird rates (until 16 February, 2024): £95 (£114 inc. VAT)
Standard rates (from 17 February, 2024): £165 (£198 inc. VAT)

Study tours (26 and 28 February) £45 (£54 inc. VAT)



VENUE AND HOTEL

Royal College of Physicians, The Spine, Liverpool

An outstanding example of workplace and education design, The Spine is designed to WELL Platinum Standard and is considered one of the world's healthiest buildings. The new northern home for the Royal College of Physicians encompasses its values throughout. The Spine houses a mix of activity-focused areas set across a flexible layout. With some of the best and most advanced medical simulation facilities in the world, there are also spaces designed to host PACES examinations and medical assessments.

Novotel Liverpool Paddington Village

Located in a prime position next door to The Spine, the Novotel is just a stone's throw from the City's many university campuses. As the highest hotel in the City, it offers incredible views across Liverpool and the River Mersey.

Discounted room rates for delegates

Standard room, breakfast included: £87 (VAT inclusive)

On receipt of your registration, a website link and code will be provided to enable you to book your accommodation at the above rates. Please book early to avoid disappointment.

