



INTELLECTUAL

RESOURCES

INTELLECTUAL RESOURCES

CANSA's intellectual resources comprise our organisational, knowledge-based intangibles, including:

- intellectual property, such as patents, copyrights, software, rights and licences
- 'organisational capital' such as tacit knowledge, systems, procedures and protocols
- our cancer research



3 GOOD HEALTH AND WELL-BEING



4 QUALITY EDUCATION



8 DECENT WORK AND ECONOMIC GROWTH



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



17 PARTNERSHIPS FOR THE GOALS



RESEARCH

CANSA's core research focus is on reducing risk, early detection and diagnosis, and optimising patient treatment, care, and support, including palliation. CANSA uses evidence-based research to inform our advocacy work, our health education programmes, and our service to those living with cancer and members of the public. CANSA's research strategies and programmes maintain and strengthen CANSA's role as a leading Cancer Control NPO. Funds were used across three research programmes categorised as Type A, B and C.

CANSA RESEARCH GOALS

TO CONTRIBUTE TO ADDRESSING THE CANCER BURDEN IN SOUTH AFRICA

- Through funding high-quality, relevant (to South Africa/low- and middle-income countries), high-impact research focused on:
 - reducing risk and exposure to risk
 - early detection
 - meeting the needs of cancer patients

TO CONTRIBUTE TOWARDS CANSA'S OFFERINGS (SERVICE, EDUCATION OF THE PUBLIC AND ADVOCACY EFFORTS)

- Through conducting and funding research that provides evidence-based research to inform cancer risk to the public via our health campaigns and outreach programmes
- Through conducting and funding research that optimises service delivery for cancer patients and those affected by cancer
- Through conducting research that strengthens advocacy efforts

TO STIMULATE INTEREST IN AND GROW FUNDING FOR CANCER RESEARCH IN SOUTH AFRICA

- Through attracting overseas funding for South African cancer research
- Through funding projects that enable researchers to then leverage larger, international grants
- Through developing a platform for South African participation in international research consortiums
- [Primarily Type A]

HOW CANSA CREATES VALUE THROUGH RESEARCH

INPUTS WHICH ENABLE CANSA TO IMPLEMENT RESEARCH INITIATIVES

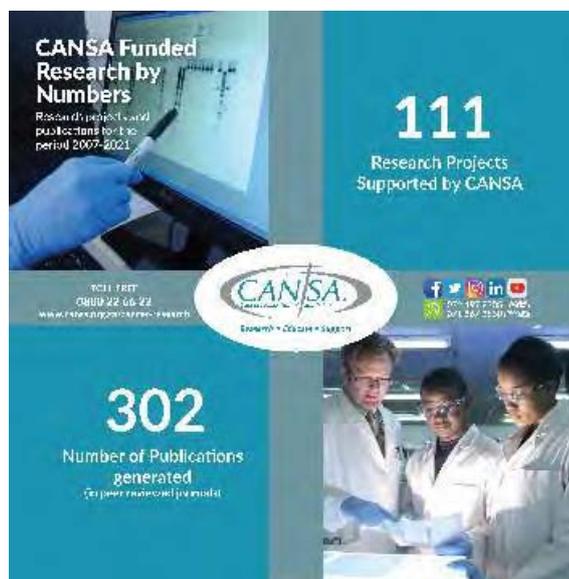
- Research-related expertise within CANSA's research department
- Donor funding for research
- CANSA's research track record and credibility
- Collaborative local and international partnerships
- Established and growing research networks

IMPLEMENTATION OF RESEARCH INITIATIVES

- Type A research grants – Research projects funded by CANSA located at academic institutions in South Africa
- Type B and C – smaller research projects with topics conceptualised by CANSA. Usually conducted by post graduate students at academic institutions within South Africa. All funded research projects are aligned to cancer control priorities in South Africa.

OUTPUTS FROM RESEARCH INITIATIVES: RESEARCH TRANSLATION

- Post graduate degrees and research capacity building in South Africa
- Dissemination of information through conference presentations, journal publications as well as via our research website and the CANSA Research Detective booklets.
- Use of research results from studies to inform advocacy activities and engage with the National Department of Health on legislation and cancer policy
- Use of research results to inform health-promotion activities, including health awareness campaigns, and the development and potential testing of materials developed for health promotion and CANSA campaigns



THE SHORT-, MEDIUM- AND LONG-TERM OUTCOMES OF RESEARCH INITIATIVES

SHORT-TERM

- Collaboration, partnership, awareness and prioritisation of key cancer-control issues in South Africa

MEDIUM-TERM

- Building trust and credibility
- Sharing and enabling research expertise multi-directionally
- Raising awareness and disseminating knowledge on cancer and cancer research

LONG-TERM

- Building cancer research capacity in South Africa
- Building credibility and a track record for CANSA's research department and researchers involved
- Using research data to help inform cancer policy
- Advocating for legislation
- Improving knowledge, attitudes and practices related to cancer control among the South African public
- Using data to inform CANSA offerings

EXTERNAL INFLUENCES AFFECTING CANSA'S RESEARCH INITIATIVES

- Donor appetites and funding availability determines ability to conduct research
- Cancer-control priorities in South Africa
- Opportunities for collaboration with academic institutions in areas of mutual interest as per our research goals
- Researchers' interest and initiatives
- Affiliations and relationships of CANSA research staff with academic institutions and researchers
- Adequate staffing in the CANSA research department

RELATIONSHIPS PARAMOUNT TO ENABLE THE CONTINUED VALUE CREATION OF CANSA'S RESEARCH INITIATIVES

- Members of our research committee
- Local and international academic institutions and researchers
- National Department of Health
- Potential funders
- Other local and international cancer associations
- Financial resources (funding)
- Research capabilities
- Collaborative partnerships

OBTAINING RESOURCES

- Financial resources (funding) – bequests, grant applications
- Human resources – research committee members, attracting appropriate talent to CANSA's research department, finding appropriate academic partners
- Social and relationship resources (collaborative partnerships) – relationship building through commitment to and engagement on research work

RESOURCE USAGE

- Research grant funding covers the costs of the research project or, in some cases, partly funds the costs of the research project
- CANSA's research team and committee members are engaged at all levels of our research strategy, including overseeing grant administration, peer reviews of grant applications, and reviewing progress reports. Our research team is also involved in co-supervision of projects, conceptualisation of projects, implementation, analysis and write up, with the level of involvement varying per project or research type and internal research capacity.

HOW CANSA'S RESEARCH INITIATIVES CREATE VALUE FOR THE ORGANISATION AND ITS STAKEHOLDERS

CANSA's research is fundamental to our strategic purpose and mission.

Our research initiatives build credibility for the organisation and positively add to CANSA's reputation in our commitment to health promotion and risk reduction, early detection, education and support. Furthermore, CANSA's research initiatives help to strengthen and inform our service offerings and build partnerships for a stronger collective effort in advocating for cancer control.

ESTABLISHING PRIORITIES AND INVESTMENTS FOR RESEARCH RESOURCES

Our Type A research focuses mainly on early detection, cancer risk reduction and optimal patient care. Streamlining, accountability and shorter timelines were the main focus areas for Type B and C projects. We believe we can play a stronger role in formulating health policy to control cancer in South Africa through scientific, evidence-based information. We align with the National Department of Health (NDoH) regarding the cancers to be prioritised in South Africa, as laid out in the National Cancer Strategic Framework for South Africa 2017-2022 (NSFSA). Cervical, breast, prostate, lung and colorectal cancers were selected for focus in the revised research strategy.

TYPE A RESEARCH

The Type A funding programme accounts for the majority of CANSA's annual expenditure on funding cancer-related research. During 2021/2022 funding was advanced as follows - University of Cape Town R 600 000; University of the Witwatersrand R 267 925 and Stellenbosch University R445 145.

Final decisions regarding Type A research projects to be funded in 2022 were made by CANSA's research committee, facilitated by external peer reviews, and with consideration of strategic focus areas. In 2022, two projects were funded by CANSA.

The 2022 Type A grants awarded include:

- Professor Christopher Mathew, University of the Witwatersrand and Professor Michael Urban, Stellenbosch University, Project title: The genetics of breast cancer risk in South Africans of African ancestry: a path to early detection
- Associate Professor Estelle Verburgh, University of Cape Town, Project title: Improving the pathway to timely and accurate lymphoma diagnosis in South Africa

Continued support of 18 research projects at universities including to post graduate students. Projects are funded in the following areas of study:

- Epidemiology and determinants of the burden of cancer in South African populations and interventions to address these
- Health seeking behaviours to improve early detection, diagnosis, and interventions to reduce cancer risk
- Optimal patient care including clinical care, rehabilitation, and palliation
- Health services and health systems strengthening, including research relating to pathways to cancer care
- Health economics of cancer, including the economic burden of cancer, its risk factors and cost effectiveness research
- Research relating to cancer biology/ biochemistry/ molecular biology as these relate to risk reduction, early detection and both definitive and supportive patient care

See www.cansa.org.za under Research Tab for a detailed summary of projects currently funded.

CANSA DETECTIVE BOOKLETS

These booklets showcase some of the Type A research which has been funded by CANSA. A new booklet, 'Contraceptive needs and fertility intentions of women with breast cancer in Cape Town, South Africa: a qualitative study' features the research conducted by Prof Jane Harries. Prof Harries was at the time, a member of the Women's Health Research Unit, School of Public Health and Family Medicine, University of Cape Town and appointed as Head of Research at CANSA as of August 2021.

Go to <https://cansa.org.za/category/cansa-research-detective-booklets/>.

HOW CANSA DETERMINES PROJECT GRANTS

The rules and regulations governing the award of CANSA research grants are documented and provide to grantees once they have been awarded a CANSA research grant in the Type A programme. Factors mainly used for determining grants include: significance, relevance, innovation, approach, researcher, Institution/environment, and feasibility.

Determining grants – Type A programme:

- 1 Funding call
- 2 Application - letter of Interest and full proposal per invitation
- 3 Internal and external peer review
- 4 Research committee discussion and decision

PUBLICATION AWARDS

CANSA awarded a total of R 265 400 to six researchers at three universities for 38 publications. The following researchers received funding: Professors Riana Bornman, Jane Harries, Lizette Jansen van Rensburg, Jennifer Moodley, Sharon Prince and Alex Welte. CANSA no longer awards publication incentives but will support open access publication costs of ISI accredited journals.

GRADUATES ARISING FROM CANSA GRANTED PROJECTS

CANSA acknowledges the importance of building the capacity of a new generation of cancer researchers to further develop much-needed advances in cancer research in South Africa. Where appropriate, Type A grants permit postgraduate and post-doctoral students to work under the supervision of the principal investigator and grant holder to obtain a postgraduate qualification or post-doctoral experience.

At the end of June 2021, a total of 10 researchers completed their CANSA research grants which facilitated the achievement of 23 degrees by various students.

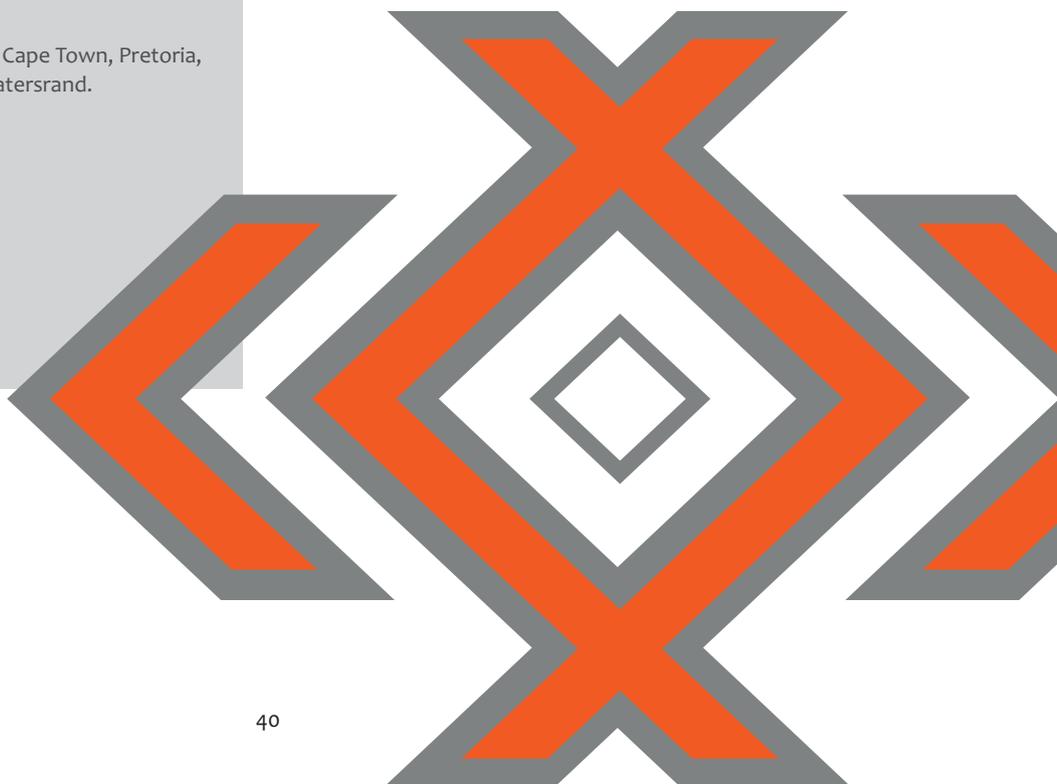
The breakdown is as follows:

- Ph.D. – 7
- MSc – 4
- MSc honours – 4
- BSc honours – 7
- MTech – 1

These students are from the Universities of Cape Town, Pretoria, Stellenbosch, Johannesburg, and the Witwatersrand.

TYPE B RESEARCH: REDUCING RISK

This is research conceptualised and conducted by CANSA, sometimes in collaboration with other institutions. Projects are typically smaller and focused on reducing public exposure to environmental cancer risks. The results inform CANSA health education and campaigns, advocacy activities and CANSA Seal of Recognition programme decisions. These projects have shorter timelines usually of 6- 12 months duration.



OUR TYPE B RESEARCH FOR THE REPORTING PERIOD

	TOPIC	PARTNER/S	DESCRIPTION
1	Cancer-related lifestyle risk, knowledge, risk perception, and intention to screen in a socio-economically diverse urban population in South Africa	Wits School of Public Health – Master's in Public Health student	The CANSA Lifestyle Risk Assessment Tool was developed to assess modifiable risk factors for cancer. An MPH student tested the tool with a sample drawn from Soweto for his MPH thesis. The student has submitted his MPH thesis and awaiting his results. Study results presented to CANSA Research Operations Committee.
2	Knowledge, attitudes and practices of traditional healers, primary healthcare service providers and men in rural Vhembe District, Limpopo Province, South Africa	University of Pretoria, University of Venda	<p>Several findings from various undertakings of the South African Prostate Cancer Study show that men living in rural areas of South Africa are at a 1.6-fold greater risk of presenting with prostate cancer than men from urban areas, the risk for prostate cancer is significantly increased within the Vhembe district of Limpopo, and prostate specific antigen (PSA) screening will greatly alleviate the burden of prostate cancer in South Africa.</p> <p>Given the importance of knowledge and awareness of prostate cancer in screening and early detection, it is imperative to understand the knowledge, attitudes and practices regarding prostate cancer in this at-risk group (men in Vhembe) and that of service providers they may consult with (traditional healers and health workers). Also, given the extremely rural and remote setting, the findings of the study could inform an intervention to improve prostate cancer awareness and early detection in a highly targeted and culturally relevant way that could potentially become an applicable methodology in other rural settings.</p> <p>Data collection is almost complete and preliminary analysis underway.</p>

TYPE C RESEARCH: ENHANCING SERVICE DELIVERY

These projects aim to enhance CANSA's service and support of patients and survivors along the cancer care continuum.

OUR TYPE C RESEARCH FOR THE REPORTING PERIOD INCLUDED

TOPIC	
<p>1. An explorative study of mental health outcomes of cancer survivors staying at CANSA Care Homes in association with University of Cape Town's Knowledge Co-op – Master's in Social Work student</p>	<p>Mental health outcomes, including psychological and emotional effects of living with cancer through treatment and survivorship, are often only considered secondary to the direct treatment of cancer, while they have a significant impact on psychosocial health and quality of life. Following a delayed start due to COVID-19 and difficulty in accessing cancer patients at the CANSA Care Homes, it was decided to interview social workers at the Homes as well. Data collection is now complete, and the student submitted the thesis in August 2022.</p>
<p>2. IRONMAN (International Registry for Men with Advanced Prostate Cancer)</p>	<p>Funded by the Movember Foundation, CANSA is co-ordinating South Africa's participation in a global cohort study on advanced prostate cancer (overseen by the Prostate Cancer Clinical Trials Consortium) The intent of the IRONMAN Study is to establish an International Registry as a prospective international cohort.</p> <p>The IRONMAN study sites in South Africa will be at the University of Cape Town, University of Pretoria and Rosebank Oncology. The study provides a contribution towards improving outcomes for the treatment of men with advanced prostate cancer (highest incidence cancer in men in South Africa). The study has been delayed due to numerous factors with plans to activate the study soon.</p>
<p>3. Psychosocial and health service needs of adolescents aged 10 to 19 years receiving oncology treatment at the Charlotte Maxeke Johannesburg Academic Hospital, Masters student Wits School of Public Health</p>	<p>A study focussing on identifying the information and psychosocial needs of adolescents in South Africa. There is a scarcity of investigation into the specific needs of adolescent cancer survivors and this study can identify the health service, psychosocial and informational needs of adolescent cancer survivors in South Africa, and how these can be addressed. Data collection has not commenced as awaiting final facility approval.</p>

MSD ONCOLOGY POLICY GRANTS PROGRAMME (USD 50,000) WITH CANCER ALLIANCE

The Principal Investigator, Head of Research is located at CANSA. The study is in collaboration with the Cancer Alliance and the University of the Witwatersrand. Research will focus on the feasibility and desirability of a dedicated South African Cancer Act, to ensure equitable cancer care services across the continuum for the entire population. The study will be completed in January 2023.

LAUNCH OF THE PAN AFRICAN CANCER RESEARCH INSTITUTE (PACRI)

In February 2022, our CEO, Elize Joubert was part of the panel discussions and delivered a message of support at the launch of PACRI. The Institute is dedicated to pushing the boundaries of precision oncology, cancer prevention and bringing new approaches for early diagnosis and novel therapeutic agents to improve health outcomes, reduce health inequalities and strengthen health systems in underserved and socio-economically disadvantaged communities.



NEW HEAD OF RESEARCH

CANSA welcomed the new Head of Research, Professor Jane Harries in August 2021. She was a former Director and Associate Professor in the Women's Health Research Unit in the School of Public Health & Family Medicine at the University of Cape Town where she led a core team of researchers, research assistants, administrators and post graduate students. Her research expertise lies across the broad spectrum of sexual and reproductive health and women's health and includes randomised controlled trials, clinical trials, cohort studies and qualitative research studies. She brings with her successful collaborating skills in both nationally, regionally and internationally on over 30 research projects over the past 20 years. The research generated is often translational with direct advocacy to improving policy and practice in sexual and reproductive health and rights and gender and health issues.

THE CANSA SEAL OF RECOGNITION

Evidence indicates that the risk of about 40% of all cancer incidence can be lowered by consumers making healthier lifestyle choices including choices related to diet, tobacco and alcohol consumption and reduced exposure to harmful, cancer-causing chemicals (carcinogens). The programme addresses part of our strategic goal by highlighting healthier choices to lower the consumers' cancer risk and contribute to reducing the cancer burden in South Africa. The Seal Programme also contributes to income generation.

EDUCATING CONSUMERS

CANSA created the CANSA Seal of Recognition (CANSA Smart Choice) to guide and encourage consumers to read product labels and to assist them in making informed choices, with the aim of promoting smart, healthy and balanced lifestyles. The Seal also helps consumers identify products free of toxins, carcinogenic, mutagenic and reprotoxic substances.

The National Department of Health granted CANSA permission to act as the endorsing body for the CANSA Seal of Recognition programme since the early 2000's. This Seal is only awarded to products that have met the predetermined criteria (undergone testing at an independent laboratory, complying with National Standards (SANS) or similar International Standards (ISO) and strict evidence-based requirements for each category). Furthermore, science-based requirements are reviewed regularly. If the product does not meet the criteria, CANSA liaises with the manufacturer about possible reformulation.

The Seal is also strategically applied to assist in cleaning-up consumer product categories containing undesirable substances by awarding the Seal to select non-offensive products in the same category and actively promoting it as such, encouraging competitors to follow suit.

The CANSA Seal is awarded to consumer products that address cancer risk factors, thereby assisting in reducing consumers' cancer risk and are categorised as follows:

- Edible consumer goods - Edible products that may assist in reducing cancer risk, free of all known carcinogens, toxins, hormones, and / or endocrine disruptors. Includes dairy products, plant foods, meat, poultry, fish, healthy fats and oils, nuts, seeds and beverages.

- Non-edible consumer goods - products that do not contain carcinogenic, hormone disruptive, or toxic substances that can be absorbed through the skin, inhaled or leach into food. Includes food preparation devices, containers, cosmetics, toiletries, sanitary products and household cleaning agents.
- Protection – these are products offering protection against natural environmental elements that may lead to cancer (solar radiation, contaminated water and air pollution). Includes sunscreens, UV-protective garments and apparel, sunglasses, shade items, solar and other radiation warning devices.
- Patient Care – Products that may enhance the quality of life, dignity, health, care and support of cancer patients and survivors and are free of all known cancer causing and hormone disruptive chemicals.
- Physical activity - Organisations, exercise programmes and equipment/products that help support the recommended physical activity guidelines and promote a balanced lifestyle to lower the cancer risk.

REVITALISING THE SEAL BRAND

In August 2021, as part of CANSA's 90th anniversary celebrations, the CANSA Seal was revitalised with a new logo design and the launching of a new physical activity category. National launches, that included the participation of the Seal partners, took place with engagement and information sessions via online webinars. These were presented by Megan Pentz-Kluyts RD(SA) our Nutrition and Dietetics consultant to CANSA. and guest, Dr Darren Green, Sports and Emergency Physician.

Collectively, the Seal income has generated R 3.1 million including the addition of four new Seal partners in the reporting period. These are Imbo & Crossbow (Edibles); Freya Hats (Protection – UV Garments); Marrow Skulls (Protection - UV Garments) and Lisa Raleigh (Physical Activity)

A detailed list of associated products can be found on www.cansa.org.za