

**IN THE HIGH COURT OF SOUTH AFRICA
GAUTENG DIVISION, PRETORIA**

CASE NO. 3623 / 2021

In the matter between –

SOLIDARITY	First Applicant
AFRIFORUM NPC	Second Applicant
and	
MINISTER OF HEALTH	First Respondent
PRESIDENT OF THE REPUBLIC OF SOUTH AFRICA	Second Respondent
MINISTER OF COOPERATIVE GOVERNANCE AND TRADITIONAL AFFAIRS	Third Respondent
CHAIRPERSON OF THE COVID-19 SCIENTIFIC MINISTERIAL ADVISORY COMMITTEE	Fourth Respondent
MEC FOR HEALTH, WESTERN CAPE	Fifth Respondent
MEC FOR HEALTH, GAUTENG	Sixth Respondent
MEC FOR HEALTH, FREE STATE	Seventh Respondent
MEC FOR HEALTH, EASTERN CAPE	Eighth Respondent
MEC FOR HEALTH, NORTHERN CAPE	Ninth Respondent
MEC FOR HEALTH, LIMPOPO	Tenth Respondent
MEC FOR HEALTH, MPUMALANGA	Eleventh Respondent
MEC FOR HEALTH, NORTH WEST	Twelfth Respondent
MEC FOR HEALTH, KWA-ZULU NATAL	Thirteenth Respondent
PHARMACEUTICAL SOCIETY OF SOUTH AFRICA	Fourteenth Respondent
COUNCIL FOR MEDICAL SCHEMES	Fifteenth Respondent
SOUTH AFRICAN MEDICAL ASSOCIATION PHARMACEUTICAL INDUSTRY ASSOCIATION OF SOUTH AFRICA	Sixteenth Respondent
	Seventeenth Respondent

FOURTH RESPONDENT'S AFFIDAVIT

I, the undersigned,

SALIM SAFURDEEN ABDOOL KARIM

do hereby make oath and say that:

- 1 I am an adult male clinical epidemiologist who has been undertaking research and working in the field of infectious disease control for the past 30 years.
- 2 The facts contained in this affidavit are true and, save where the contrary appears from the context or is otherwise stated, are within my personal knowledge.
- 3 I am currently employed as the Director of the Centre for the Aids Programme of Research in South Africa (CAPRISA) at the Doris Duke Medical Research Institute of the Nelson R Mandela School of Medicine, University of KwaZuluNatal. I am also the Pro Vice-Chancellor (Research) at the University of KwaZuluNatal.
- 4 In addition, I hold the following positions internationally:
 - 4.1 CAPRISA Professor in Global Health in the Department of Epidemiology at Columbia University, New York, USA;
 - 4.2 Adjunct Professor in Immunology and Infectious Diseases at Harvard University, USA; and

4.3 Adjunct Professor of Medicine at Cornell University, New York, USA.

5 The credentials and expertise I have in the prevention, control, and treatment of infectious and communicable diseases are outlined in detail in my curriculum vitae and annexed hereto as “**SSAK 1**”.

6 I respectfully submit I am properly qualified as an expert to express the opinions contained in this affidavit.

MY APPROACH TO THE PRESENT MATTER

7 During March 2020, I was appointed as Chair of the Ministerial Advisory Committee on the COVID-19 epidemic in South Africa. I refer to it as “the MAC”.

8 In this capacity, I provide expert technical advice to the Department of Health on measures to control the spread and impact of the novel coronavirus, SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2), including treatment protocols and infection control within health facilities. The Committee is a body comprised of 21 people, mostly academics, from a wide range of disciplines.

9 In this capacity, I also sit as an observer on the Ministerial Advisory Committee on Vaccines (“the VMAC”), a multi-disciplinary collective of experts that was tasked to advise on the development of the national Covid-19 vaccine strategy. The VMAC is chaired by Professor Barry Schoub.

- 10 The applicants have cited me as the fourth respondent in this matter – though they wrongly suggest that Professor Schoub is the chair of the MAC, when he is in fact the chair of the VMAC.
- 11 I have given consideration to the appropriate response by me in respect of this application.
- 11.1 As I explain in what follows, I have very serious misgivings about the approach of the applicants as set out in their papers and the effects that such an approach, if adopted, would have.
- 11.2 However, it does not seem appropriate that an independent expert in my position should be drawn into formally opposing litigation of this kind.
- 11.3 I therefore abide the relief sought, but set out my views in this affidavit for the assistance of the Court.

THE PROCUREMENT OF VACCINES

- 12 The novel coronavirus has spread globally and the COVID-19 pandemic poses a clear threat to human life in South Africa. Over the past year our knowledge and understanding of the nature of the novel coronavirus, the methods of transmission, and ways that transmission and contraction of the virus may be slowed and/or prevented has increased.

- 13 One of the most important elements of the global Covid-19 response is that safe and effective vaccines have been developed and tested and now are starting to be approved for international distribution and use outside of clinical trials.
- 14 The question that arises is whether, from a policy and public health perspective, Covid-19 vaccines:
- 14.1 should be procured exclusively by national governments, as is currently the case in all countries that I am aware of; or
- 14.2 should also be procured by individuals or organisations independently of national governments, such as private persons and provincial governments, as the applicants contend.
- 15 In my considered view, the applicants' approach:
- 15.1 is out of step with the prevailing practice in all countries that I am aware of;
- 15.2 is entirely impractical and unrealistic at present given the approach of vaccine manufacturers; and
- 15.3 most importantly, if it came to fruition, would seriously imperil the extensive efforts made by the South African government and other governments to ensure that Covid-19 vaccines are efficiently and expeditiously procured and made available first to those in greatest need, in manner that seeks to protect the public as whole.

THE DANGERS OF VACCINE NATIONALISM, VACCINE PROVINCIALISM AND VACCINE ELITISM

- 16 In this regard, what is critical to understand is that Covid-19 is not a local epidemic or even a national epidemic. It is a global pandemic. The spread of SARS-CoV-2 in one part of South Africa will almost certainly affect other parts of the South Africa. In the same way, the spread of SARS-CoV-2 in neighbouring countries or countries which have extensive relations with South Africa will almost certainly affect South Africa itself.
- 17 For example:
- 17.1 If one province (Province A) were to rapidly achieve high-levels of vaccination including herd immunity, this would not ultimately be of assistance if other provinces do not themselves achieve high-levels of vaccination and immunity in a similar timeframe.
- 17.2 Instead, what would result in such a scenario is that Province A might achieve protection against the existing SARS-CoV-2 variants, but the high levels of viral replication in the other provinces would increase the risk of new variants, particularly variants that can bypass vaccine immunity, emerging and spreading.
- 17.3 This would mean that Province A would be well-protected against the existing Covid-19 virus and existing variants but would be acutely vulnerable to the spread of new SARS-CoV-2 variants from those other provinces.

- 17.4 This is especially the case as there is no guarantee that a vaccine designed to be effective against the existing SARS-CoV-2 variants would be effective at all or as effective against new variants that develop. Some vaccines have markedly lower efficacy in South Africa due to the 501Y.V2 variant. The recent clinical trial results regarding the AstraZeneca vaccine and the variant highlight this problem. As a result of the 501Y.V2 variant, the efficacy of the AstraZeneca vaccine was 3.2-fold lower – dropping from 70% in the UK and Brazil to 22% in South Africa. Similarly, the efficacy of the Novovax vaccine dropped from 89% in the UK to 49% in South Africa.
- 18 The same is true of the position viewed from a broader perspective, for the same reasons. If South Africa were to rapidly achieve high-levels of vaccination including herd immunity, this may ultimately be of limited benefit if other countries, particularly those with close connections to South Africa, do not also receive vaccine doses to vaccinate their citizens and achieve immunity.
- 19 The same is also true from a narrower perspective. It would be of little value if one business or one trade union were to rapidly achieve high levels of vaccination for its employees or members, if the rest of the persons who interact with those employees or members were not also to receive vaccine doses.
- 20 It is therefore critical to effectively combat the pandemic that widespread vaccination of the population across economic class, age, and geographical setting is achieved. This approach is known as vaccine equity, a campaign declared by the World Health Organisation (WHO) in January 2021.

- 21 I emphasise that this is not only a moral or ethical imperative – though it certainly is that as well. It is a question of self-preservation. If the aim is to protect the health and lives of South Africans via vaccines, this can only be effectively done by ensuring that other countries also receive their due supply of vaccines. Similarly, if the aim is to protect the health and lives of people in Province A or a particular trade union, this can only be effectively done by ensuring that other provinces and other persons receive their due supply of vaccines as well.
- 22 To do otherwise, would amount to what may be termed vaccine nationalism or vaccine provincialism or vaccine elitism. This may be described as a system whereby vaccines are procured and distributed primarily based on market factors and the ability of financially-resourced countries or provinces or persons to purchase vaccines on a demand basis, and to ignore the epidemiological imperative of ensuring mass vaccination regardless of financial means.
- 23 The Director-General of the WHO, Tedros A. Ghebreyesus, has said on this point:
- “... the world is on the brink of a catastrophic moral failure ... Even as they speak the language of equitable access, some countries and companies continue to prioritize bilateral deals, going around Covax, driving up prices and attempting to jump to the front of the queue. This is wrong.”
- 24 Where countries or provinces or private persons engage in unilateral vaccine procurement, this has the effect of redirecting the limited supply of vaccines that exists away from programmes which foster global equity (such as COVAX) and national equity (such as the South African Government’s vaccine strategy). It results in those buying small quantities with deep pockets pushing up vaccine

prices and so jumping ahead of the queue. It undermines the effective management and control of the pandemic.

25 This concern is not hypothetical or theoretical. It is demonstrated by what occurred in the United States in March 2020 regarding personal protective equipment (PPE) and ventilators.

25.1 During that period, the absence of a centralised federal government procurement strategy for PPE and ventilators mean that US states were competing against each other, against the federal government and even against cities to procure PPE and ventilators.

25.2 This was a disastrous situation as it resulted in prices being driven up and PPE and ventilators being distributed on the basis of resources available, rather than need, and failing to ensure an equitable and effective distribution of the sorely-needed PPE and ventilators. Such maldistribution of essential Covid-19 resources leads to the loss of lives.

25.3 I attach in this regard an article from Forbes Magazine dated 3 March 2020 as annexure "**SSAK2**".

26 Precisely the same is true of vaccines. At present there is a fixed number of vaccines on the market. As such, supply is fixed. Where private entities (or provincial governments) independently seek to acquire vaccines, it is not in a situation of limitless product. Such entities are in fact, taking vaccines allocated to the South African government or other governments and thus undermining the

objective of systematically vaccinating the highest number of people in order of priority in the shortest period of time.

- 27 It is for this reason, that the present approach to vaccine acquisition and roll out in this country is to get the vaccine out as soon as possible to as many people as possible. In so doing, and in the words of Pope Francis, head of the Catholic Church:

“To come out of this crisis better, we have to recover the knowledge that as a people we have a shared destination. The pandemic has reminded us that no one is saved alone. What ties us to one another is what we commonly call solidarity. Solidarity is more than acts of generosity, important as they are; it is the call to embrace the reality that we are bound by bonds of reciprocity. On this solid foundation we can build a better, different, human future”

- 28 In my view, should any corporate entity or provincial department independently procure and administer vaccines based on the recipient’s ability to pay, this would deeply undermine, or even destroy, our country’s national approach to control Covid-19.

THE PRACTICAL CONTEXT

- 29 I emphasise five practical considerations in this regard.

- 30 First, the supply and demand of the market:

- 30.1 If multiple corporate entities or multiple provinces buy vaccines directly then it would directly benefit and feed into the hands of the pharmaceutical companies. The increased demand, should multiple entities from one country seek to buy vaccines it creates competition for scarce goods, smaller quantities of purchases amongst the various corporate entities and ultimately higher prices.
- 30.2 Pharmaceutical companies have not adopted a single exit price for their SARS-CoV-2 vaccines. The prices are therefore open to market forces – especially as the use of non-disclosure agreements means that they can prevent differential pricing from become public. More demand, especially from countries under significant pressure to buy vaccines, means higher prices for the product.
- 30.3 In South Africa, this it means that our government will have to compete with its own provincial governments and corporate entities and this will result in the country paying higher prices. This will significantly undermine the vaccine equity model in that fewer people will be vaccinated for the same purchase price.
- 31 Second, the limited supply of vaccines internationally:
- 31.1 Vaccines are in limited supply and, in my view, will likely to be so until at least the end of 2021.
- 31.2 In this limited market supply, South African corporate entities or provincial governments buying vaccines removes from the available

pool, stock that our government (or other national governments) could be buying.

31.3 Such an approach means that the intended systematic vaccine roll-out plan of who gets vaccines and when they get them for maximum benefit of the country, is jeopardised.

32 Third, it would be unethical, immoral and damaging to our vaccination program if young low risk people are being vaccinated before those in phase 1 or 2 ie. health care workers, the elderly, patients with co-morbidities, essential workers and those in congregate settings.

32.1 Under vaccine equity, no government responsibly or ethically can allow an outcome that means failing to protect the most vulnerable of its people.

32.2 If the organisation, trade union or province concerned contends that it is buying vaccines for those who are most vulnerable, then its approach makes no sense. Government has already prioritised those at high risk and is working on securing doses for those who are most vulnerable.

33 Fourth, all countries that I know are managing their vaccination roll-outs through central government for at least the following three important reasons.

33.1 Firstly, this is to ensure that there is only one certifying authority providing a vaccine certificate, which can be verified online.

- 33.2 A vaccinating authority will need to certify each person as vaccinated. Allowing multiple authorities to certify vaccinations would create chaos with multiple unofficial databases, leaving the door open to counterfeit certifications and the national Department of Health with inadequate data on who has and has not been vaccinated. Incomplete or inadequate data is unreliable and would undermine any national monitoring and evaluation process adopted.
- 33.3 Secondly, the national vaccination strategy is carefully planned for a mix of at least two or three of the different vaccine technology platforms (mRNA, vectors, protein sub-units or whole killed viruses) with at least two vaccines from each technology platform. This vaccine diversity is critically important in the event that safety, efficacy or production problems occur with one or more different vaccines or vaccine platforms over the course of time. If individual entities are allowed to independently buy vaccines, this vaccine diversity approach may be severely compromised placing the whole country at risk.
- 33.4 Thirdly, central government has to carefully balance the mix of vaccines to achieve its current target of 67% immune protection for herd immunity. This means that when low efficacy vaccines are used, these have to be balanced with high efficacy vaccines so that the overall target can still be achieved. If an individual organisation, trade union or province can independently procure vaccines, it may choose to buy only a low efficacy vaccine (as its demand and price may be lower), which may derail efforts to achieve immune protection targets.

33.5 These risks, which could be substantial, must be anticipated and avoided.

34 Finally, and the most urgent imperative, is that we have to reach the national goal to bring this epidemic to a point where South Africans can return to social and economic normality.

34.1 The reason why it is imperative for national government to procure vaccines is that it requires a systematic and organised roll-out of vaccines in line with the strategy to achieve population-level benefit for epidemic control. This is very different from individual benefit and different considerations apply.

34.2 The VMAC – comprising medical experts in consultation with relevant stakeholders – considered and planned the vaccine rollout and concluded that the three-phased approach is the best option given the varied factors at play.

34.3 In contrast, those purchasing vaccines outside of national government may be buying it for private goals and interests, that are unlikely to be consonant with vaccine equity. Vaccinating individuals outside of the three-phase plan may provide individual benefit for those who can afford it, employees only, or even prioritise urban residents over rural communities. But their individual benefit may undermine the country's progress towards population benefit.

34.4 If I am mistaken in this view of private interests in vaccine procurement, and these entities and trade unions are actually seeking to buy

vaccines for the country's national goal of population benefit, then they should donate their vaccine procurement funds to government for this specific purpose as it is only the government that has an overall strategy and constitutional obligation of population benefit. This far exceeds the sum of any individual benefits, which would, in all likelihood, be short lived where population benefit is not achieved.

SALIM SAFURDEEN ABDOOL KARIM

I hereby certify that the deponent knows and understands the contents of this affidavit and that it is to the best of the deponent's knowledge both true and correct. This affidavit was signed and sworn to before me at _____ on this the _____ day of FEBRUARY 2021, and that the Regulations contained in Government Notice R.1258 of 21 July 1972, as amended by R1648 of 19 August 1977, and as further amended by R1428 of 11 July 1989, having been complied with.

COMMISSIONER OF OATHS

Full names:

Address:

Capacity:

Curriculum Vitae: Salim Abdool Karim

1. DATE OF PREPARATION OF CV

27 November 2020

2. PERSONAL DATA

Name : Salim S. Abdool Karim
Birthdate : July 29, 1960
Birthplace : Durban, South Africa
Citizenship : South African
Residency : South Africa and USA
Work Address : Department of Epidemiology, Mailman School of Public Health, Columbia University,
722 West 168th Street, New York, NY 10032
or (in South Africa)
CAPRISA, Doris Duke Medical Research Institute (2nd Floor), Nelson R Mandela School
of Medicine, University of KwaZulu-Natal, 719 Umbilo Road, Durban 4001, South Africa
Telephone (work) : [REDACTED]
(home) : [REDACTED]
(mobile) : [REDACTED]
E-mail address : [REDACTED]

3. ACADEMIC TRAINING

01/1992-12/1999: PhD, University of Natal, South Africa
01/1989-12/1992: MMed(Community Health), University of Natal, South Africa.
01/1989-12/1991: FFCH(Community Medicine), College of Medicine, South Africa.
01/1985-12/1989: Diploma in Datametrics(Computer Science), University of South Africa.
09/1987-08/1988: MS(Epidemiology), School of Public Health, Columbia University, New York.
01/1978-12/1983: MBChB, University of Natal, South Africa.

4. PROFESSIONAL ORGANIZATIONS AND SOCIETIES

2019-Present : Fellow, Royal Society
2018-Present : Member, US National Academy of Medicine
2017-Present : Member, Association of American Physicians
2016-Present : Fellow, University of KwaZulu-Natal
2013-Present : Fellow, American Academy of Microbiology (AAM)
2012-2017 : Foreign Associate Member, US National Academy of Medicine (previously Institute of Medicine (IOM) of the US National Academy of Sciences)
2011-Present : Fellow, African Academy of Sciences (AAS)
2009-Present : Fellow, The World Academy of Sciences (TWAS)
2003-Present : Fellow, Royal Society of South Africa (RSSAf)
2001-Present : Member, Academy of Science of South Africa (ASSAf)
2000-Present : Member, International Society for Infectious Diseases
1996-Present : Member, International AIDS Society
1996-2000 : Member, Society for Epidemiological Research, USA
1996-1999 : Councillor for Africa, International Epidemiological Association
1996-1998 : Chairperson, Epidemiological Society of Southern Africa
1995 : Member, New York Academy of Sciences
Member, American Association for the Advancement of Science.
1994-Present : Member, Sexually Transmitted Diseases Society of South Africa (now FIDSSA).
1989-Present : Member, International Epidemiological Association.
Member, Epidemiological Society of Southern Africa (and subsequently FIDSSA).
1989-1991 : Executive Committee Member, Epidemiological Society of Southern Africa.

- 1986-1987 : Member, Community Health Association of Southern Africa.
- 1986-1987 : Chairperson, National Emergency Services Groups.
- 1986-1987 : Assistant General Secretary, National Medical and Dental Association (NAMDA).
- 1985-1986 : Member, South African Society for Occupational Medicine.
- 1982-1986 : Member, Phoenix Child Welfare Society and David Landau Community Centre.

5. PROFESSIONAL / BOARD QUALIFICATIONS:

- 1992-Present : Registered with the South African Health Professions as a Community Health Specialist.
- 1992-Present : Registered Fellow in the Faculty of Community Health of the South African College of Medicine.
- 1985-Present : Registered as Medical Practitioner with Health Professions Council of South Africa (0271047MP)

6. ACADEMIC APPOINTMENTS

Current appointments:

- 2019-Present : Adjunct Professor in Immunology and Infectious Diseases, Harvard University
- 2016-Present : CAPRISA Professor of Global Health, Department of Epidemiology, Columbia University (Professor with tenure)
- 2016-Present : (Honorary) Pro Vice-Chancellor (Research), University of KwaZulu-Natal
- 2015-Present : (Honorary) Director: DST-NRF Centre of Excellence in HIV Prevention (hosted by CAPRISA)
- 2014-Present : (Honorary) Director: MRC HIV-TB Pathogenesis and Treatment Research Unit (hosted by CAPRISA)
- 2011-Present : (Honorary) Associate, Ragon Institute of Massachusetts General Hospital (MGH), Massachusetts Institute of Technology (MIT) and Harvard University
- 2005-Present : Adjunct Professor, Clinical Epidemiology and Health Services Research, Graduate School of Medical Sciences, Cornell University, New York
- 2002-Present : Director: Centre for the AIDS Programme of Research in South Africa (CAPRISA)
- 2000-Present : Adjunct Professor of Medicine, Weill Medical College, Cornell University, New York

Previous positions held:

- 2012-2014 : President, South African Medical Research Council
- 2008-2011 : Honorary Professor in Public Health, Nelson R. Mandela School of Medicine, University of KwaZulu-Natal
- 2007-2008 : Interim Director, KwaZulu-Natal Research Institute for TB and HIV (K-RITH) of the Howard Hughes Medical Institute
- 2005-2015 : Pro Vice-Chancellor (Research), University of KwaZulu-Natal (as an employee)
- 2003-2006 : Honorary Professor in Community Health, Nelson R. Mandela School of Medicine, University of KwaZulu-Natal
- 2001-2004 : Deputy Vice-Chancellor (Research), University of Natal
- 2000-2015 : Professor of Clinical Epidemiology, Mailman School of Public Health, Columbia University, New York
- 2000-2001 : Director, HIV Prevention and Vaccine Research Unit, Medical Research Council.
- 1999-2001 : Honorary Associate Professor, School of Infectious Diseases, University of Natal, Durban.
- 1998-2000 : Visiting Professor, Weill Medical College, Cornell University, New York.
- 1997 : Interim Director, Africa Centre for Population Studies and Reproductive Health of the Wellcome Trust
- 1996-2000 : Adjunct Associate Professor, Division of Epidemiology, Mailman School of Public Health, Columbia University, New York.
- 1993-2000 : Director, CERSA: Centre for Epidemiological Research in South Africa, Medical Research Council (MRC).
- 1992-1998 : Honorary Lecturer, Department of Paediatrics and Child Health, Faculty of Medicine, University of Natal.
- 1992-1997 : Honorary Senior Lecturer, Department of Family Medicine, Medical University of South Africa.
- 1994 : Accompanied Health Minister Dlamini-Zuma as her Technical Advisor for the Afro Region of World Health Organisation's Annual Ministers of Health Meeting in Brazzaville, Congo.
- 1994 : Visiting Professor, Division of Epidemiology, School of Public Health, Columbia University.
- 1992-1995 : Part-time Senior Lecturer, Department of Optometry, University of Durban-Westville.

- 1992-1993 : Senior Epidemiologist, Medical Research Council (Natal).
 1989-1992 : Resident/Registrar, Department of Community Health, Faculty of Medicine, Natal University
 1989 : Part-time Researcher: Centre for Epidemiological Research in South Africa, Medical Research Council.
 1987-1988 : Post-doctoral Fellow, Gertrude H. Sergievsky Center, Columbia University, New York. Also studied health economics at London School of Hygiene and Tropical Medicine and methods of epidemic investigations at the Centers for Disease Control, USA during this Fellowship.
 1986-1987 : Resident/Registrar, Department of Virology, Faculty of Medicine, University of Natal.
 1985 : Post-Intern Research Fellow, Research Institute for Diseases in Tropical Environment of MRC.
 1984 : Internship, King Edward VIII Hospital Durban. Worked in the Departments of Obstetrics and Gynaecology, Medicine, Surgery & Orthopaedics.

7. HONORS

7a Awards

- 2020 : **John Dirks Canada Gairdner Health Award** from the Gairdner Foundation
 : **John Maddox Prize** for Standing up for Science (Awarded jointly to Dr Anthony Fauci and Professor Salim S. Abdool Karim by *Nature* and Sense about Science)
 : **500 Years of the Straits of Magellan Award** from the Chilean Government
 2018 : **Al-Sumait Prize** from the Amir of Kuwait and the Kuwait Foundation for the Advancement of Science
 2017 : **Lifetime Achievement Award** from the Institute of Human Virology
 2015 : African Union's **Kwame Nkrumah Continental Scientific Award**
 : **Platinum Lifetime Achievement Award** from the Medical Research Council
 : KwaZulu-Natal Department of Health "**MASEA Award**"
 2014 : **DSc (Medicine) (Honoris causa)**, University of Cape Town
 : **US Science and Technology Pioneers Prize** (to the CAPRISA 004 trial team) from the United States Agency for International Development
 : **Mayor's Award**, eThekweni Metro, Durban.
 2013 : **John F. W. Herschel Medal** in recognition of Highly Distinguished Multidisciplinary Contributions to the furtherance of Science from the Royal Society of South Africa
 : **Distinguished Scholar Award** from the Biomedical HIV Prevention Forum of Nigeria
 2012 : **N'Galy-Mann Award** (to Quarraisha and Salim S. Abdool Karim) for global contributions in HIV clinical research and epidemiology of AIDS
 : **Minara recognition award for Academic Excellence** (to Quarraisha and Salim S. Abdool Karim)
 2011 : **President's Award for Outstanding Achievement in World Health** (to the CAPRISA 004 Leadership Team) from DIA (Drug Information Association) for research on the tenofovir gel microbicide
 : **Research leading to Innovation Award** (to Quarraisha and Salim S Abdool Karim on behalf of the CAPRISA 004 Leadership Team) from the South African National Science & Technology Forum (NSTF) jointly with BHP Billiton in recognition of the contributions to HIV prevention through the CAPRISA 004 study

- **Allan Rosenfield Alumni Award for Excellence** (to Quarraisha and Salim S. Abdool Karim) from Columbia University's Alumni Association in recognition for excellence in AIDS research
- **Medicine Award - Fellowship in Art & Science of Medicine (Gold)** from the South African Medical Association in recognition for excellence in research on microbicides, vaccines and TB-HIV treatment
- **Science-for-Society Gold Medal Award** from the Academy of Science in South Africa (ASSAf) in recognition of excellence in the application of outstanding scientific thinking in the service of society.
- **Outstanding Senior African Scientist Award** from the European and Developing Countries Clinical Trials Partnership (EDCTP)
- **Olusegun Obasanjo Prize for Scientific Discovery and Technological Innovation** from the African Academy of Sciences
- 2009 · **TWAS Prize in Medical Sciences** from The World Academy of Sciences (TWAS)
- **Outstanding Leadership Award** from the Microbicide Trials Network (MTN) for the HPTN 035 trial
- 2008 · **Hero in Medicine Award** from the International Association of Physicians for AIDS Care (IAPAC)
- 2005 · **Best Man Award** in the Science & Technology category from the Men's Health Magazine
- 1988 · **Reebok Human Rights Award** from the Reebok Foundation - the award was dedicated to the work of NAMDA (The National Medical and Dental Association) in the field of health and human rights.

7b Post-graduate Fellowships

- 1987 · Rockefeller Fellowship for special interests and explorations at Columbia University, New York, USA
- 1986 · Post-doctoral Fellowship by the South African Medical Research Council.
- 1985 · Post-intern scholarship by the Medical Research Council to study the epidemiology of hepatitis B.
- 1981 · Denmark Clerkship by the Natal University Medical Students' Representative Council, Durban, South Africa. Hosted by the International Medical Co-operation Committee and spent two months in Denmark learning about the Danish Health Care System.

7c Committee and other professional activities

- 2020-present · Member, Lancet Commission on COVID-19
- Chair, COVID-19 Ministerial Advisory Committee
- Member of the Steering Committee, Africa Task Force for Coronavirus (AFCOR)
- 2019-present · Member, Scientific Advisory Board of the Consortium for HIV/AIDS Vaccine Development (CHAVD)
- 2017-present · Chair, World Health Organisation (WHO) Strategic and Technical Advisory Committee for HIV and Viral Hepatitis (STAC-HIVHEP)
- Member, Board of the Population Council, New York
- Chair, Grant review committee for the US Department of Defense's Medical Research and Development Program
- 2016-2017 · Member, International Advisory Group (IAG) for the India TB research Consortium
- 2015-present · Member, WHO HIV/TB Task Force
- 2015 · Co-Chair, WHO Pre-exposure Prophylaxis (PrEP) Technical Advisory Group
- 2014-present · Member, International Society for Infectious Diseases (ISID)

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- Member, Scientific Advisory Committee of the South African National Institute for Communicable Diseases
 Member, 2015 Gen-Probe Joseph Public Health Award Nominations Committee of the American Academy of Microbiology
- 2014-2015 : Member, WHO Consolidated Antiretroviral Guidelines Steering Committee
- 2014 : Member, WHO expert committee drafting 2014 WHO Consolidated Antiretroviral guidelines
- 2013-present : Chair, UNAIDS Scientific Expert Panel
- 2013-2015 : Member, UNAIDS - Lancet Commission on AIDS
- 2012-present : Member, Scientific Advisory Board for Global Health, Bill and Melinda Gates Foundation
- 2012 : Member, Scientific Program Committee (SPC) of the international symposium to celebrate the 30th anniversary of the discovery of HIV
- 2011 : Member, The team writing South Africa's National Strategic Plan for HIV/AIDS, STIs and TB (2012-2016)
- 2011-2013 : Member, Academy of Science in South Africa - Standing Committee on Health
- 2010-2014 : Member, Scientific Advisory Board, US President's Emergency Plan for AIDS Relief (PEPFAR)
- 2010 : Member, Scientific Committee, UNAIDS Declaration on HIV Prevention
 Member, Expert Review Panel, Fogarty International Research Scientist Career Development Grant
- 2009 : Member, Institute of Medicine's Committee on "Envisioning a strategy to prepare for the long-term burden of HIV/AIDS"
 Member, Review Panel of the US Military Infectious Diseases Research Program
 Member, Strategic Advisory Board, Global HIV Vaccine Enterprise
 Member, Global Health Award Advisory Committee, Gairdner Foundation
 Member, WHO Expert Advisory Panel on Sexually Transmitted Infections and HIV
 Member, Population Council Microbicide Advisory Board
- 2008 : Chair, WHO, Scientific and Technical Advisory Group for Reproductive Health
 Member Scientific Committee, AIDS 2008 Vaccine Conference
- 2007 : Member, AIDS Accountability International Scientific Review Panel
 Co-Chair of the Planning Group for Research in International Settings, National Institutes of Health's Office of AIDS Research
 Review panel member, US Centers for Disease Control and Prevention intramural AIDS Research Program
 Member, International AIDS Vaccine Initiative (IAVI) Scientific Advisory Committee
- 2006 : Member, International Scientific Advisory Committee for the 17th International Society for STD Research (ISSTD)
 Member, The International Center for Indigenous Phytotherapy Studies (TICIPS) External Advisory Panel
 Member, Council of South African Association for Marine Biological Research (SAAMBR)
 Trustee of the South African Centre for Epidemiological Modelling of AIDS (SACEMA) trust
 Member, Scientific Advisory Committee, Aurum Health Research
 Member, External Review Panel for NIAID funded activities of the U.S. Military HIV Research Program



- 2005 : Member, Scientific Advisory Board, International Partnership for Microbicides
 : Member, South African Higher Education AIDS Programme Scientific Advisory Committee
 : Vice-Chair, Scientific and Technical Advisory Group (STAG), Department of Reproductive
 : Health and Research, World Health Organisation, Geneva, 2002.
 : Member, International Planning Committee, Office of AIDS Research, National Institutes of
 : Health
 : Member, Advisory Council for the Harvard AIDS Initiative (HAI) Vaccine Think Tank Series
- 2004 : Member, Scientific Committee for the Prevention Science concentration, 3rd IAS Conference
 : on HIV Pathogenesis and Treatment
- 2003 : Member, Board of the Oceanographic Research Institute, Durban.
 : Member, Scientific Committee, AIDS Vaccine 2004, Paris
 : Member, Scientific Committee, Microbicide Conference 2004, London
 : Member, Scientific Committee, 8th World STI/AIDS Congress, Uruguay, 2003
- 2002 : Member, Global HIV Prevention Working Group of the Gates Foundation.
 : Member, Program Committee, AIDS Vaccines 2003, New York
 : Member, Scientific and Technical Advisory Group (STAG), Department of Reproductive Health
 : and Research, World Health Organisation, Geneva, 2002.
 : Drafting sub-committee, Council of International Organisations of Medical Societies (CIOMS)
 : Conference on 1992 CIOMS Guidelines Revision, World Health Organisation, Geneva, 2002.
 : Chairman, Scientific Basis for Regulatory Decisions on Microbicides, UNDP/UNFPA/WHO/
 : WORLD BANK Special Programme of Research Development and Research Training in
 : Human Reproduction, World Health Organisation, Villars-sur-Ollon, Switzerland, 2002.
 : Member, Scientific Committee, International Congress of Chemotherapy, Durban, 2003
- 2001 : Member, Program Committee, AIDS Vaccines 2001, Philadelphia 2001
 : Member of the Advisory Board, International Leadership Award program of the Elizabeth Glaser
 : Pediatric AIDS Foundation
 : Member, International Scientific Advisory Board, XIV International AIDS Conference,
 : Barcelona, 2002
 : Member, Board of Directors, Sugar Milling Research Institute, Durban.
- 2000 : Chairperson, Scientific Programme Committee, XIIIth International AIDS Conference, Durban,
 : July 2000.
 : Member, KwaZulu-Natal Provincial AIDS Council.
 : Member, Scientific Steering Committee, HIV Vaccine Trials Network
 : Chairperson, International Working Group, HIV Vaccine Trials Network
- 1999 : Member of the International Advisory Committee of the Second International Conference on
 : AIDS India 2000, India, December 1999.
 : Member of Review Panel Focus Group on the Centers for AIDS Research, Office of AIDS
 : Research, National Institutes for Health.
- 1998 : Chairperson, Health Sector Working Group, National Research and Technology Foresight
 : Project, Department of Arts, Culture, Science and Technology, South Africa.
 : Chairperson, Data, Safety and Monitoring Board, Vitamin A and vertical HIV transmission trial,
 : University of Natal, Durban.
 : Chairperson, Safety Monitoring Committee, Pneumococcal Vaccine Trial, University of
 : Witwatersrand, Johannesburg.
- 1997 : Chairperson, National Advisory Group of Immunisation, South Africa.
 : Member, International Scientific Committee of the 3rd International Conference on AIDS
 : Impact: Biopsychosocial aspects of HIV infection, Melbourne, Australia, June 1997.
 : Member, Organising Committee and Scientific Committee of the 18th African Health Sciences
 : Congress, Cape Town, April 1997.
 : Member, Scientific Programme Committee, 12th World AIDS Conference, Geneva, June 1998.

- 1996 : Chairperson of the South African Polio Expert Committee
 : Adviser, Educational Programmes on Psychological Problems in General Health Care, WHO.
 : Elected to Governing Council as Councillor for Africa, International Epidemiological
 : Association.
 : Board Member, Centre for Health Policy, University of Witwatersrand, South Africa.
 : Board Member, Institute for Urban Primary Health care, Johannesburg.
 : Board Member, Dental Research Institute, University of Witwatersrand, South Africa.
 : Member, Selection Committee of Oxford Nuffield Medical fellowships in South Africa.
 : Scientific Advisory Panel, Poliomyelitis Research Foundation, South Africa.
- 1995 : Technical team for the National Health Insurance Commission of the Department of Health.
 : Board Member, Pneumococcal Research Unit, University of Witwatersrand, South Africa.
 : International Review Panel for AIDS Research in the areas of natural history, epidemiology and
 : prevention, National Institutes for Health, USA.
 : Viral Hepatitis Advisory Board
 : HIV/AIDS and STD Advisory Group, Department of Health, South Africa.
 : International Scientific Committee, XI International Conference on AIDS, Vancouver, July 1996.
 : Scientific Programme Committee, HELINA '96, Second International Working Conference on
 : Health Informatics in Africa, Johannesburg.
- 1994 : Health Advisory Committee and Management Committee of the Valley Trust, a socio-medical
 : project in the Valley of Thousand Hills.
 : South African Department of Health Committee to develop a National Health Information
 : System
- 1993 : Board of the National Centre for Occupational Health, South Africa.
 : Expert Panel for a Sanitation Decision Support System for Umgeni Water.
 : Steering Committee on Water supply and quality and health in developing communities of the
 : Water Research Commission.
 : National Advisory Group on Immunisation, the government's expert committee on vaccination.
 : Strategy Drafting Committee of NACOSA (The National AIDS Co-ordinating Committee of
 : South Africa).
- 1992 : Scientific Review Committee of the Human Sciences Research Council project to evaluate the
 : government-initiated Food Aid Programme in Natal-KwaZulu.
 : Evaluation Panel of the Progressive Primary Health Care Network's National AIDS Programme.

8. FELLOWSHIP AND GRANT SUPPORT

Received grants as Principal Investigator in excess of \$100million, including grants from the National Institutes for Health, Wellcome Trust, USAID, US Centers for Disease Control and Prevention, South African Department of Science and Technology and the Howard Hughes Medical Institute.

Agency	Title	Type & #	Period	Total Direct Costs	Role
2016					
USAID/FHI 360	DREAMS Initiative - Prep Demonstration Research Study- CAPRISA 084	Prime Award No. AID-874-A-14-00009 FHI 360 - Project No. - 100312.001.001	06/01/2016 - 05/31/2018	R64,669,114	Co-Investigator
EDCTP	CAPRISA 018: A randomised controlled trial to assess the safety, acceptability and pharmacokinetics of sustained-release tenofovir	SRIA2015-1061	02/01/17-12/31/22	£9,869,514	Principal Investigator

	alafenamide sub-dermal implant for HIV prevention in women				
2015					
South African Medical Research Council (SAMRC)	MRC-CAPRISA HIV-TB Pathogenesis and Treatment Research Unit	Cooperative Agreement	04/01/2015 - 03/31/2020	R3,290,066 To Date	Principal Investigator
National Research Foundation (NRF)/DST	DST-NRF Centre of Excellence in HIV Prevention	UID 96354	03/01/2015 - 12/31/2019	R10,000,000 per annum	Principal Investigator
Crucell Holland B.V - Janssen Pharmaceutica (Pty) Ltd	A Phase 1/2a Trial to Evaluate the Safety/Tolerability and Immunogenicity of Homologous Ad26 Mosaic Vector Regimens or Ad26 Mosaic and MVA Mosaic Heterologous Vector Regimens, with High-Dose, Low-Dose or no Clade C gp140 Protein Plus Adjuvant for HIV Prevention	Crucell - HIV-V-A004	03/26/2015 - 05/31/2018	R3,245,090 To Date	Co-Investigator
ViiV	Collaboration for the development and testing of an injectable antiretroviral agent, cabotegravir long-acting (LA), for HIV prevention in women – CAPRISA 014		04/16/2015 - 12/31/2018 Terminated - 08/18/2016	\$3,000,000	Principal Investigator
USAID	Collaboration for the development and testing of an injectable antiretroviral agent, cabotegravir long-acting (LA), for HIV prevention in women – CAPRISA 014	AID-OAA-A-15-00040	07/24/2015 - 07/23/2019 Terminated - 06/30/2017	\$3,000,000	Principal Investigator
Tides Foundation / MAC AIDS	Stopping new HIV infections in young women: A community-based program for ARV-based prevention	Grant # TFR15-01788	09/11/2015 - 09/10/2016	\$1,000,000	Principal Investigator
2014					
Centers for Disease Control and Prevention	The CAPRISA Regional Centers for Advanced Clinical Management of HIV/AIDS and TB	5 U2GGH001142	04/01/2014 - 03/31/2019	\$12,600,000 To Date	Co-Investigator
National Institutes of Health (NIH)/NIAID	Inflammation and HIV risk: understanding partial Tenofovir efficacy in CAPRISA004	1R01AI111936	07/10/2014 - 06/30/2018	\$2,102,402 To Date	Co-Investigator
2013					
National Institutes of Health (NIH)/NIAID	CAPRISA Clinical Trials Unit for AIDS/Tuberculosis Prevention and Treatment	2UM1AI069469	12/10/2013 - 30/11/2020	\$19,407,596 To Date	Co-Principal Investigator
UNAIDS	Chair of the UNAIDS Scientific Expert Panel at CAPRISA	2015/587455	05/22/2013 - 08/31/2016	\$271,028	Principal Investigator
2012					
CONRAD /USAID	CAPRISA 008: Phase IIIb Open-Label Randomized Controlled Trial to	Subproject No.: PPA-12-	03/01/2012 -	\$5,787,387	Co-Principal Investigator

	Assess the Implementation Effectiveness and Safety of 1% Tenofovir Gel Provision through Family Planning Services in KwaZulu-Natal, South Africa	143 / Cooperative Agreement GPO-A00-08-00005-00 Subproject No.: MAPS1-14-002 / Cooperative Agreement AID-OAA-A-14-00011	11/30/2014 06/15/2014 - 08/31/2015	\$2,905,438	
Family Health International - FHI 360	HPV Infection, Genital Inflammation and HIV Acquisition in Women in CAPRISA 004	FHI 360 ID: 0437.0197/8 05288	12/01/2012 - 03/31/2014	\$573,208	Co-Principal Investigator
NIH	Mary E. Charlson training grant	AHRQ T32			Co-Investigator
2011					
Technology Innovation Agency/DST	CAPRISA 008: Phase IIIb Open-Label Randomized Controlled Trial to Assess the Implementation Effectiveness and Safety of 1% Tenofovir Gel Provision through Family Planning Services in KwaZulu-Natal, SA		11/28/2011 - 11/27/2012	R14,000,000	Co-Principal Investigator
Department of Science and Technology (DST)	To Conduct CAPRISA 009 as an open label randomized controlled trial to assess the impact of prophylactic exposure to Tenofovir Gel	Project Funding: DST/CON 0216/2011		R9,808,758	Principal Investigator
Technology Innovation Agency/DST	Post CAPRISA 004 Activities		03/01/2011 - 02/29/2012	R12,500,000	Co-Principal Investigator
Technology Innovation Agency	HIV Vaccine Immunogen Design: Identification of T Cell epitopes associated with control of viral replication in Indian and South African HIV-1 infected individuals		01/04/2011 - 31/03/2013	R1,500,000	Co-Investigator
Tides Foundation / MAC AIDS	Research preparing for the scale-up implementation of tenofovir gel for HIV prevention	Grant#TFR11 01545	12/07/2011 - 11/07/2013	\$500,000	Co-Principal Investigator
Technology Innovation Agency	Identification of neutralizing antibody epitopes on Indian and South African HIV-1 subtype C viruses for HIV vaccine design		01/04/2011 - 31/03/2013	R1,500,000	Co-investigator
2008					
Centers for Disease Control and Prevention	CAPRISA AIDS TREATMENT PROGRAMME (CAT)	5U2 GPS001350	09/30/08 - 09/30/14	\$26,922,692	Principal Investigator
Howard Hughes Medical Institute (HHMI)	TB Recurrence upon Treatment with HAART (TRuTH) Study	HHMI 55007065	09/01/2008 - 08/31/2012	\$1,348,731	Principal Investigator

National Research Foundation	Acute HIV Infection	UID 67385	04/01/2008 - 03/31/2011	R7,500,000	Principal Investigator
2007					
National Institutes of Health (NIH)/NIAID	UKZN-CAPRISA HIV/AIDS Clinical Trials Unit Description: To conduct clinical trials of HIV prevention and treatment	UI01 A1069469	01/01/2007 - 12/31/2013	\$35,535,855	Principal Investigator
2006					
NIH	Microbicide Trial Network Leadership – Executive Committee Member	U01 A1068633	01/07/2006 - 30/06/2013	\$149,372 per annum	Co-investigator (PI: Sharon Hillier)
Family Health International	CAPRISA 004: Phase IIb trial to assess the safety and effectiveness of vaginal microbicide, 1% Tenofovir gel, for the prevention of HIV infection in women in South Africa	co operative agreement # GPO-A-00-05-00022-00, contract # 132119	01/07/2006 - 31/03/2011	\$8,940,544	Co-Principal Investigator (Co-PI: Quarraisha Abdool Karim)
NIH	Center for HIV/AIDS Vaccine Immunology (CHAVI)	U01 A1067854	01/10/2006 - 30/06/2009	\$2,650,556	Co-Investigator (PI: B Haynes)
NIH	Evaluation of HIV-specific immunological and virological responses of HIV-1 multiply-exposed seronegative individuals (HEPS)	R01 AI 047086	01/06/2006 - 31/05/2009	\$373,329	Co-investigator (PI: Juliana McElrath)
2005					
NIH, Fogarty International Center	International Training Program in Epidemiology of AIDS Description: The goal of the Program is to impact on the spread and control of AIDS and tuberculosis by developing a group of well-trained South African researchers in these fields	D43 TW00231	01/06/2005 - 31/05/2010	\$816,000 per annum	Co-Investigator (PI: Quarraisha Abdool Karim)
LIFELab (EcoBio)	Training Programme for CAPRISA 004: Phase II trial to assess the safety and effectiveness of the vaginal microbicide 1% Tenofovir for the prevention of HIV infection in young women in South Africa		01/07/2005 - 30/06/2008	R8,500,000	Co-Investigator (PI: Quarraisha Abdool Karim)
2004					
NIH	CAPRISA AIDS Treatment (CAT) Programme: Supplement to Collaborative AIDS Programme of Research in South Africa	U19A105179 4-02S1	01/06/2004 - 31/05/2008	\$2,000,000 per annum	Principal Investigator
2003					
Medical Research Council	South African AIDS Vaccine Initiative (SAVI) HIV Vaccine Trials Unit		01/04/2003 - 31/03/2006		Co-Principal Investigator (PI: Gavin Churchyard)
2002					
NIH	Collaborative AIDS Programme of Research in South Africa (CAPRISA)	U19 A151794-01	01/07/2002 - 31/05/2007	\$10,685,048	Principal Investigator
NIH	Adult AIDS Clinical Trials Group (AACTG)		01/06/2002 -	\$250,000	Co-investigator

			31/05/2006		(PI: Scott Hammer)
Fogarty International Center, NIH	Natal-Columbia Clinical AIDS/TB Training Program: A collaborative programme in clinical, operational and health services research and training	PA-02-022	01/01/2002 - 30/08/2003	\$75,000	Principal Investigator
2001					
NIH	HIV Vaccine Trials Unit (HVTN)		01/06/2001 - 30/06/2004	\$17,500	Co-investigator (PI: Scott Hammer)
NIH	HIV Prevention Trials Unit	U01A146749-03	01/06/2001 - 31/05/2004	\$35,000	Co-investigator (PI: Wafaa El-Sadr)
2000					
NIH	South African MRC HIV Prevention Trials Unit		01/06/2000 - 31/05/2005	\$6,216,050	Principal Investigator (until 30 June 2001)
NIH	New York – Southern Africa HIV Vaccine Trials Unit		01/06/2000 - 31/05/2005	\$9,996,270	Principal Investigator (until 30 June 2001)
Fogarty International Center, NIH	AIDS International Training and Research Program	D43 TW00231	01/10/2000 - 30/09/2005	\$3,153,399	Principal Investigator
NIH	Studies on acceptability of vaginal microbicides		01/10/2000 - 30/09/2004	\$700,000	Co-investigator (until 30 June 2001) (PI: Gita Ramjee)
1999					
NIH	HIVNET 023: Phase I study to assess the safety and plasma concentrations of nevirapine given daily, twice per week or weekly as prophylaxis in breastfeeding infants from birth to six months		01/01/1999 - 31/12/2000	\$439,955	Co-Principal Investigator
NIH	Phase I multi-centre dose escalation safety and acceptability study of the investigational vaginal microbicide agent PRO2000		01/01/1999 - 31/05/2000	\$163,623	Co-Principal Investigator
NIH	Virological and immunological studies of HIV infection in newly infected individuals in Southern Africa		01/01/1999 - 31/05/2000	\$116,222	Co-Investigator (PI: Haynes Sheppard)
1998					
NIH – Fogarty International Center	International training programme in medical informatics for African nationals		01/06/1998 - 31/05/2002	\$664,228	Co-Investigator (PI: Michael Bennis)
The Wellcome Trust	Migration and the spread of sexually transmitted diseases in southern Africa		01/01/1998 - 31/12/2001	R2,389,540	Co-Investigator (PI: Mark Lurie)

The Wellcome Trust	Syphilis in pregnancy: a health systems intervention trial		01/04/1998 - 30/09/2000	R952,350	Co-Principal Investigator (PI: David Wilkinson)
NIH	International training programme in the epidemiology of AIDS		01/06/1998 - 31/05/2000	\$815,799	Principal Investigator
NIH – Fogarty International Centre	Supplementary grant: International TB training programme		01/10/1998 - 31/05/2000	\$250,854	Principal Investigator
World Health Organisation	COL-1492 in the prevention of transmission of STDs and HIV: a multi-centre phase II/III study among commercial sex workers participating in a 100% condom programme		01/10/1998 - 30/04/2000	\$409,338	Co-Principal Investigator
1997					
The Wellcome Trust	Africa Centre for Population Studies and Reproductive Health		01/07/1997 - 30/06/2002	£5,000,000	Principal Investigator (until end of 1997)
NIH	Establishing a South African HIV vaccine trial site through intervention trials for HIV prevention among high risk rural women in Hlabisa (Core HIVNET grant)		30/10/1997 - 01/06/2000	\$784,082	Principal Investigator
Department of Health	Development of surveillance systems for the HIV/AIDS and STD Programme		01/02/1997 - 31/12/1999	R1,500,000	Principal Investigator
Department of Health	Development of monitoring tools and evaluation of the HIV/AIDS and STD Programme		01/02/1997 - 31/12/1999	R1,000,000	Principal Investigator
1995					
World Health Organisation	A multi-centre, randomized, double-blind, placebo-controlled clinical trial to evaluate efficacy, tolerance and effectiveness of three drug regimens using zidovudine in combination with lamivudine for the prevention of mother-to-child transmission of HIV (PETRA).		15/12/1995 - 30/06/1998	\$90,234	Co- Investigator (PI: Joseph Saba)

9. TEACHING EXPERIENCE AND RESPONSIBILITIES

9a. Teaching

- 2002-Present : Teach a course on "Cluster randomized control trials" in the Department of Medicine, Weill Medical College, Cornell University
- 1996-Present : Teach a course entitled "Advanced epidemiology of infectious diseases" in the Division of Epidemiology, Columbia University.
- 1992-Present : Occasional lectures to post-graduate students in the University of KwaZulu-Natal, University of Witwatersrand, University of Cape Town, University of Western Cape and the Medical University of South Africa.
- 1995-2002 : External examiner, Masters in Epidemiology, University of Cape Town, South Africa.
: External examiner, Department of Community Health, University of Witwatersrand.
: Examiner for the South African College of Medicine, Faculty of Community Health.
- 1991 : External examiner for M.Med.Sc. (Social Work) degree at the University of Durban-Westville and

	M.Soc.Sc. Degree at University of Natal.
1989	Post-graduate teaching in Biostatistics - Departments of Medicine and Paediatrics, Natal University
1988	Lectured in epidemiology in the College of Physicians and Surgeons, and in comparative health systems in the School of Public Health, Columbia University.
1987-1988	Teaching Assistant in MPH core epidemiology course, School of Public Health, Columbia University.
1986-1987	Lectured in Virology and Microbiology at University of Natal Medical School.

9b. Post-graduate Supervision

Doctoral degrees:

2016	Kogieleum Naidoo, Challenges in the integration of TB and HIV care: Evidence for improving patient management and health care policy, PhD, University of KwaZulu-Natal
2015	Cheryl Baxter, Impact of intermittent tenofovir 1% gel on hepatitis B virus (HBV) infection, PhD, University of KwaZulu-Natal
2014	Vivek Naranbhai, The role of natural killer cells in preventing HIV-1 acquisition and controlling disease progression, PhD, University of KwaZulu-Natal
2008	Eleanor Gouws, Incidence of HIV infection in rural KwaZulu-Natal. PhD, University of KwaZulu-Natal
2001	Cassandra Seethal. Evaluation of a teacher vision awareness programme for teachers to detect vision problems in preschool children. PhD, University of Durban-Westville
1999	David Wilkinson. Epidemiology, treatment and control of tuberculosis in the HIV era in Hlabisa, South Africa. MD, University of Natal
1998	Colin Pillai. Pharmacokinetic and pharmacodynamic characteristics of isoniazid and rifampicin in patients with multi drug-resistant tuberculosis. PhD, University of Durban-Westville

Masters degrees:

2015	Nivashnee Naicker. Predictors of HIV Acquisition in High Risk Women in Durban, South Africa. MPH, University of KwaZulu-Natal
1998	Nirupa Shah. The impact of dispensing restrictions, generic substitution and professional fees on the cost of medicines to the patient. M.B.A., University of Wales.
1997	Roxana Rustomjee. A randomised control trial of nonoxynol 9 among sex workers in South Africa. M.S.(Epi), Columbia University.
1995	David McCoy. Assessment of the quality of sexually transmitted disease care in a rural health district. M.Phil., University of Cape Town.

Supervision of US K-awardees:

- Mark Lurie, Brown University (K-award)
- Donnie McGrath, Tufts University (K-award)
- Ingrid Bassett, Harvard University (K-award)
- William Carr, Harvard University (K-award)

9c. CU-SA Fogarty AITRP Trainee Supervision

As past Principal Investigator of the Columbia University – Southern African Fogarty AIDS International Training and Research program (CU-SA Fogarty AITRP) for several years, I have been involved in building capacity in South Africa to undertake AIDS research for more than a decade. Over 200 Fellows have been trained in this program.

10. OTHER PROFESSIONAL ACTIVITIES

10a. Editorial responsibilities

2017	Editorial Board Member: Journal of Acquired Immunodeficiency Syndrome (JAIDS)
2016	Editorial Board Member: mBio
2015	Editorial Board Member: New England Journal of Medicine
	Editorial Board Member: Indian Journal of Medical Research
2014	Editorial Board Member: AIDS Research and Human Retroviruses
	Editorial Board Member: AIDS Reviews
	International Advisory Board Member: Lancet HIV

2013	International Advisory Board member, The Lancet Global Health
2012-2013	Board of Reviewing Editors, <i>eLife</i> Journal
2011	Reviewer, <i>Science</i> Reviewer, <i>AIDS Research and Human Retroviruses</i> Editorial Board Member: HIV and Infectious Diseases Reviewer, <i>Indian Journal of Medical Research</i> Reviewer, <i>BioMedCentral (BMC) International Health and Human Rights</i>
2010	Reviewer, <i>New England Journal of Medicine</i> Reviewer, <i>HIV Medicine</i> Reviewer, <i>Drugs</i> Reviewer, <i>Clinical Infectious Diseases</i> Reviewer, <i>Pan African Medical Journal</i> Reviewer, <i>Journal of the American Medical Association</i> Reviewer, <i>Journal of Infection in Developing Countries</i>
2009	Reviewer, <i>Lancet</i> Reviewer, <i>Science (Translational Medicine)</i> Reviewer, <i>Fertility and Sterility</i> Reviewer, <i>International Journal of Tuberculosis and Lung Diseases</i> Reviewer, <i>Global Public Health</i> Reviewer, <i>Journal of Infectious Diseases</i>
2008	Reviewer, <i>Expert Review of Vaccines</i>
2007-2013	Editorial Board Member: <i>The Open Journal of Virology</i>
2006	Reviewer, <i>PLoS Medicine</i>
2005	Reviewer: <i>Journal of Acquired Immunodeficiency Syndrome (JAIDS)</i>
2004	Reviewer, <i>Bulletin of the World Health Organization</i> Reviewer, <i>Journal of Health, Population and Nutrition</i> Reviewer, <i>Tropical Medicine and International Health</i>
2001-2014	Associate Editor, <i>AIDS Clinical Care</i>
2001-2003	Member - Editorial Board, <i>Sexually Transmitted Infections</i>
2001-2006	Corresponding Editor, <i>International Journal of Infectious Diseases</i>
2000-2010	Member - Editorial Board, <i>Southern African Journal of HIV Medicine</i>
1999	Reviewer, <i>Social Science and Medicine</i>
1998	Reviewer, <i>AIDS</i>
1998-2008	Member - Editorial Board, <i>Southern African Journal of Epidemiology and Infection</i>
1997	Reviewer, <i>Journal of Family and Community Medicine</i>
1996	Reviewer, <i>Southern African Journal of Food Science and Nutrition</i>
1995-1998	Editor, <i>Southern African Journal of Public Health</i>
1993	Reviewer, <i>South African Medical Journal</i>
1992	Reviewer, <i>American Journal of Public Health</i>
1989	Reviewer, <i>Southern African Journal of Epidemiology and Infection</i>

11. PUBLICATIONS

11a. Peer-reviewed journal articles

2020

1. Abdool Karim Q, **Abdool Karim SS**. COVID-19 affects HIV and tuberculosis care. *Science* 2020 July; 369(6502):366-368
2. **Abdool Karim SS**. The South African response to the pandemic. *New England Journal of Medicine* 2020 June; 382(24):e95. doi: 10.1056/NEJMc2014960.
3. Brault MA, Spiegelman D, **Abdool Karim SS**, Vermund SH. Integrating and Interpreting Findings from the Latest Treatment as Prevention Trials. *Current HIV/AIDS Reports*. <https://doi.org/10.1007/s11904-020-00492-4>
4. Naidoo K, Hassan-Moosa R, Mlotshwa P, Yende-Zuma N, Govender D, Padayatchi N, **Abdool Karim SS**. High rates of drug-induced liver injury in people living with HIV coinfecting with tuberculosis (TB) irrespective of antiretroviral therapy timing during antituberculosis treatment: results from the starting antiretroviral therapy at three points in TB trial. *Clinical Infectious Diseases* 2019; pii: ciz732. doi: 10.1093/cid/ciz732
5. Molathegi RP, Liebenberg LJ, Leslie A, Noel-Romas L, Mabhula A, Mchunu N, Perner M, Birse K, Ngcapu S, Adamson JH, Govender K, Garrett NJ, Samsunder N, Burgener AD, **Abdool Karim SS**, Abdool Karim Q, Passmore JS, McKinnon LR. Plasma concentration of injectable contraceptive correlates with reduced

cervicovaginal growth factor expression in South African women. *Mucosal Immunology* 2020; doi:10.1038/s41385-019-0249-y.

6. Singh R, Ramsuran V, Mitchev N, Niehaus AJ, Han KSS, Osman F, Ngcapu S, **Abdool Karim SS**, Rompalo A, Garrett N, Mlisana K. Assessing a diagnosis tool for bacterial vaginosis. *European Journal of Clinical Microbiology & Infectious Diseases*. 2020;. doi: 10.1007/s10096-020-03862-3. [Epub ahead of print]. <https://www.ncbi.nlm.nih.gov/pubmed/32193689>
7. Drain PK, Dorward J, Violette LR, Quame-Amaglo J, Thomas KK, Samsunder N, Ngobese H, Mlisana K, Moodley P, Donnell D, Barnabas RV, Naidoo K, **Abdool Karim SS**, Celum C, Garrett N. Point-of-care HIV viral load testing combined with task shifting to improve treatment outcomes (STREAM): findings from an open-label, non-inferiority, randomised controlled trial. *Lancet HIV* 2020 April; 7(4):e229-e237.
8. Fisher KL, Mabuka JM, Sivro A, Ngcapu S, Passmore J-AS, Osman F, Ndlovu B, Abdool Karim Q, **Abdool Karim SS**, Chung AW, Baxter C, Archary D. Topical Tenofovir Pre-exposure Prophylaxis and Mucosal HIV-Specific Fc-Mediated Antibody Activities in Women. *Frontiers in Immunology* 2020 July; 11(1274).
9. Mahomed S, Garrett N, Baxter C, Abdool Karim Q, **Abdool Karim SS**. Clinical trials of broadly neutralizing monoclonal antibodies for HIV Prevention: A Review. *J Infect Dis*. 2020 Jun 30;jiaa377. doi: 10.1093/infdis/jiaa377

2019

10. **Abdool Karim SS**. HIV-1 Epidemic Control — Insights from Test-and-Treat Trials. *New England Journal of Medicine* 2019; 381;3: 286-288.
11. **Abdool Karim SS**, Baxter C, Passmore JS, McKinnon LR, Williams BL. The genital tract and rectal microbiomes: their role in HIV susceptibility and prevention in women. *Journal of the International AIDS Society* 2019; 22(5):e25300. doi: 10.1002/jia2.25300
12. **Abdool Karim SS**, Baxter C. HIV incidence rates in adolescent girls and young women in sub-Saharan Africa. *Lancet Global Health* 2019; 7(11):e1470-e1471. doi: 10.1016/S2214-109X(19)30404-8.
13. Abrahams MR, Joseph SB, Garrett N, Tyers L, Moeser M, Archin N, Council OD, Matten D, Zhou S, Doolabh D, Anthony C, Goonetilleke N, **Abdool Karim SS**, Margolis DM, Pond SK, Williamson C, Swanstrom R. The replication-competent HIV-1 latent reservoir is primarily established near the time of therapy initiation. *Science Translational Medicine* 2019; 11(513): eaaw5589. doi: 10.1126/scitranslmed.aaw5589.
14. Liebenberg L*, McKinnon L*, Yende-Zuma N*, Garrett N, Baxter C, Kharsany A, Archary D, Rositch A, Samsunder N, Mansoor L, Passmore J-A, **Abdool Karim S**, **Abdool Karim Q**. HPV infection and the genital cytokine milieu in women at high risk of HIV acquisition. *Nature Communication* 2019; 10: 5227
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11b. Books & Book Chapters and Reports

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11c. Patents

1. Patent 2003/0996. Application number: 12/357,099 (Publication date: 22 Mar 2011, Filing date: 21 Jan 2009, Priority date: 7 Jul 2000)
Nucleic acids encoding modified South African HIV-1 subtype C gag proteins
Process of selection of HIV-1 subtype C isolates, selected HIV-1 subtype C isolates, their genes and modifications and derivatives thereof
Inventors: Robert Edward Johnston, Salim Abdol Karim, Lynn Morris, Ronald Swanstrom, Carolyn Williamson
Countries: South Africa, India, USA, ARIPO, Germany, Italy, France, United Kingdom and Namibia
2. Patent: 2004/4205. Application number: PCT/IB02/04550 (Publication date: 20 Jan 2009, Filing date: 31 Oct 2002, Priority date: 31 Oct 2001)
HIV-1 subtype isolates, regulatory/accessory genes and modifications and derivatives thereof (Based on ZA20001/8978)
Inventors: Carolyn Williamson, Joanne Heidi van Harmelen, Clive Maurice Gray, William Bourn, Salim Abdool Karim
Countries: South Africa. USA, ARIPO, United Kingdom, France, Germany
3. Patent: EP 2 579 871 B1. Application number: 11726022.4 (Publication date: 26 August 2015 Bulletin 2015/35, Filing date: 07 June 2011)
Topical antiviral formulations for prevention of transmission of HSV-2
Inventors: Salim S. Abdool Karim, Quarraisha Abdool Karim, Ayesha Kharsany, Jim Rooney and Thomas Cichlar

Countries: South Africa and USA

4. Application number 1403613.1: Provisional Patent (PA159593/P) (filed 28 February 2014)

Novel Broadly Neutralizing Monoclonal Antibodies Against HIV-1

Inventors: Lynn Morris, Penny Moore, Salim Abdool Karim, John Mascola, Nicole Doria-Rose, Peter Kwong and Larry Shapiro

Countries: South Africa and USA

5. Patent: US 10,519,222 B2 / EP 3 110 844 B1 / WO2015/128846 A1. Application number PCT/IB2015/051465

(Publication date: 3 Sept 2015, Filing date: 27 Feb 2015, Priority date: 19 Dec 2014, Date of patent 31 Dec 2019)

Broadly neutralizing monoclonal antibodies against HIV-1 V1V2 env region

Inventors: Chaim Aryeh Schramm, Jason Gorman, John Mascola, Lawrence Stewart Shapiro, Lynn Morris, Nicole Amy Doria-Rosa, Penelope Linda Moore, Peter Dak Pin Kwong, Salim Safurdeen Abdool Karim

Countries: South Africa and USA

6. Pending Patent: CU17009 Application number 62/533,229 (Publication date: , Filing date: 17 July 2017, Priority date:)

Methods of assessing risk of and preventing infection by sexually transmitted disease including human immunodeficiency virus

Inventors: W. Ian Lipkin; Brent Williams; Mara Couto-Rodriguez; Salim Abdool Karim

Countries: South Africa and USA

11d. Abstracts and conference presentations

2019

Young Scientist Symposium on Infectious Diseases, 27 May 2019, Durban, South Africa

- **Abdool Karim SS.** HIV Prevention in Women in Africa: Challenges and Opportunities

South African AIDS Conference, 11 June 2019, Durban, South Africa

- **Abdool Karim SS.** HIV: No time for complacency (Plenary)

Epic Course, 26 June 2019, Columbia University, New York, New York

- **Abdool Karim SS.** Ending the HIV epidemic in the USA
- **Abdool Karim SS.** Sensitivity vs specificity and reliability vs validity

Royal Society lecture, 12 July 2019, London, UK

- **Abdool Karim SS.** HIV Prevention in Women in Africa: Challenges and Opportunities

KRISP Business Breakfast - Decoding the SA Indian Genome for Health Risk, 19 July 2019, Durban South Africa

- **Abdool Karim SS.** Diabetes: A scourge in South Africa

Phoenix Child Welfare AGM, 21 July 2018, Durban South Africa

- **Abdool Karim SS.** The HIV Epidemic in South Africa: Challenges & Prospects

2018

WHO Consultation, February 28th - March 1st, 2018, Geneva

- **Abdool Karim SS.** Reaching robust policy recommendation

37th Medicine Update Symposium, 15th April 2018

- **Abdool Karim SS.** The HIV Epidemic in South Africa: Challenges & Prospects

EECAAC, Moscow, Russia, 19-20 April 2018

- **Abdool Karim SS.** Specific HIV Prevention technologies for PWID
- **Abdool Karim SS.** Global achievements in HIV prevention

Fogarty at 50 Symposium, Washington D.C., 1 May 2018

- **Abdool Karim SS.** Multigenerational models of long-term capacity building: the trainees become the trainers

IAVI, New York, USA, 2 May 2018

- **Abdool Karim SS.** Preventing HIV in young women in Africa: challenges and prospects

Tackling Infections to Benefit Africa (TIBA) AGM, Durban, South Africa 29 May 2018

- **Abdool Karim SS.** A research journey to unravel why young women have the highest rates of HIV in S. Africa

Vaccine Research Center Seminar, NIH, Bethesda, Maryland, 12 June 2018

- **Abdool Karim SS.** CAPRISA-VRC collaborative passive immunisation studies with bnAb combinations

Population Council, Center for Biomedical Research, New York, USA, 13 June 2018

- **Abdool Karim SS.** Preventing HIV in young women in Africa: A decade of trials and tribulations

IAPAC Adherence Conference, Miami, USA, 8 June 2018

- **Abdool Karim SS.** Connecting the dots from 90-90-90 to HIV Epidemic Control: Milestones for the climb up Mt. Everest

BRICS Health Representatives Meeting, Durban, South Africa, 18 July 2018

- **Abdool Karim SS.** CAPRISA's contributions to Excellence in Research in South Africa
- **Abdool Karim SS.** HIV and TB: A focus on BRICS health priorities

Phoenix Child Welfare AGM, Durban, South Africa 21 July 2018

- **Abdool Karim SS.** *The HIV Epidemic in South Africa: Challenges & Prospects*

Pathology Research and Development (PathReD) Innovation Summit, Johannesburg, 2 August 2018

- **Abdool Karim SS.** Driving scientific research and innovation for social benefit: Examples from CAPRISA's HIV-TB research

AFREHealth Symposium, Durban, South Africa, 6 August 2018

- **Abdool Karim SS.** Research capacity building and partnerships

UKZN Research Flagships Launch, 5 September 2018

- **Abdool Karim SS.** Health in South Africa: Trends, Challenges & Opportunities

DoH KwaZulu-Natal Research Day, Durban, South Africa, 5 September 2018

- **Abdool Karim SS.** HIV in South Africa: An update with recent research findings

2017

USAID, 9 January 2017

- **Abdool Karim SS.** HIV prevention challenges in sub-Saharan Africa: HIV infection in young women in Africa

MIT course, Durban 19 January 2017

- **Abdool Karim SS.** HIV prevention: Prospects & Challenges

University of KwaZulu-Natal research Selectives, Durban, South Africa, 30 January 2017

- **Abdool Karim SS.** Study designs and levels of evidence
- **Abdool Karim SS.** Experimental studies

HIV Workshop for Specialists in all Disciplines Advanced Clinical Care Program, February 2017

- **Abdool Karim SS.** Epidemiology of HIV in South Africa

HPTN Meeting, Johannesburg, South Africa 28 February 2017

- **Abdool Karim SS.** CAP256-VRC26.25.LS mAb HIV prevention research plan

Conference on Retroviruses and Opportunistic Infections (CROI), Seattle, Washington, February 13–16, 2017

- McKinnon L, Liebenberg L, Yende N, Masson L, Kashuba A, Archary D, Abdool Karim Q, **Abdool Karim S**, Passmore J-A. Mucosal inflammation abrogates tenofovir-gel-mediated protection from HIV infection. [Abstract Number: 949]

International AIDS Conference, 23-26 July 2017, Paris, France

- Fisher K, Mabuka J, Baxter C, Cromarty R, Mansoor L, Abdool Karim Q, **Abdool Karim S**, Garrett N, Yende N, Morris L, Passmore J-A, Archary D. Antibody dependent cell-mediated phagocytic activity is increased in the genital tract mucosae of HIV-infected women with prior tenofovir gel exposure. (Abstract: WEPE)
- Klatt N, Birse K, Zevin A, Cheu R, Perner M, Romas L, Grobler A, Westmacott G, Xie I, Butler J, Mansoor L, McKinnon L, Passmore J-A, Abdool Karim Q, **Abdool Karim S**, Burgener A. Vaginal bacteria modify HIV pre-exposure prophylaxis efficacy in African women. (Abstract: MOPE)
- Mhlungu S, Yende-Zuma N, Ngcapu S, Mansoor L, **Abdool Karim S**, Abdool Karim Q, Passmore J, Liebenberg L. Sexually transmitted infections (STIs) increase levels of cytokine and cellular biomarkers of HIV risk. (Abstract: TUEP)
- Jewanraj J, Rositch A, Mhlungu S, Mtshali A, Leask K, Mansoor L, **Abdool Karim S**, Abdool Karim Q, Passmore J-A, Liebenberg L. Potential Immune Mechanism for the Relationship between HIV Risk and Multiple Concurrent HPV Infections. (Abstract: TUPE)
- Cicala C, Sivo A, Schuetz A, Nawaz F, Arthos J, Williamson C, Paul R, Passmore J-A, Ananworanich J, Ansari A, **Abdool Karim S**, McKinnon L, Fauci A. HIV transmission and disease progression are linked to the frequency of $\alpha 4\beta 7^+$ CD4⁺ T cells. (Abstract: MOPE)

18th International Congress of Mucosal Immunology, 20 July 2017, Washington DC

- **Abdool Karim SS**. Vaginal microbiome in HIV

St Lukes School of Public Health, 23 August 2017, Tokyo, Japan

- **Abdool Karim SS**. The Global HIV epidemic: Successes, Challenges & Prospects

IFCC Worldlab Conference, 22 October 2017, Durban, South Africa

- **Abdool Karim SS**. HIV in women in Africa: new evidence from phylogenetic, genomic and protein research

KwaZulu-Natal Department of Health Research Day, 31 October 2017, Durban, South Africa

- **Abdool Karim SS**. CAPRISA 012 – SAMBA Trial - Phase I safety and PK trial of Subcutaneous Administration of Monoclonal Broadly-neutralizing Antibodies

Maternal Health Summit, 10 November 2017, Johannesburg, South Africa

- **Abdool Karim SS**. HIV and women: Challenges & Prospects

2016

National Institutes of Health, VRC meeting, Washington, D.C., 4 February 2016

- **S Abdool Karim**. Product Development Plan for CAP256-VRC26.25

CROI 2015, Boston, Massachusetts, 22-25 February 2016

- Singh R; Naranbhai V; Jamieson L; Garrett N; **Abdool Karim S**, Ndungu TP, BST-2, TRIM22, and RAD51 in Host Susceptibility to HIV-1 Infection and Virus Control.

5th Eastern Europe and Central Asia AIDS Conference, Russia, 23 March 2016

- **S. Abdool Karim**. Approaching the end of the epidemic: Review of advanced trends in HIV prevention
- **S. Abdool Karim**. Treatment as prevention: History and achievements

AVAC Press conference, Durban, 14 July 2016

- **S. Abdool Karim**. New HIV prevention options including PrEP what does it mean for South Africa?

AIDS 2016, Durban, South Africa, 19-22 July 2016

- **S.S. Abdool Karim**. Understanding high rates of HIV in young women in Africa: Implications of new epidemiological, phylogenetic, genomic and proteomic evidence.

- **S.S. Abdool Karim.** What have we learned from studies of topical agents: interpreting clinical results. THSY0802
- N. Naicker, A. Naidoo, L. Werner, N. Garrett, **S.S. Abdool Karim.** Safety and tolerability of tenofovir-containing antiretroviral therapy in women who acquired HIV in two tenofovir gel trials. THPEB058
- Y. Moosa, N. Garrett, C. Gray, V. Naranbhai, C. Williamson, **S. Abdool Karim.** HIV virological controllers in an African cohort. TUPEA013
- N. Garrett, E. Norman, V. Asari, N. Naicker, N. Majola, K. Leask, Q. Abdool Karim, **S. Abdool Karim.** Acceptability of early HIV treatment among South African women. WEAB0101
- T. de Oliveira, P. Khumalo, C. Cawood, R. Dellar, F. Tanser, G. Hunt, A. Grobler, A. Kharsany, L. Madurai, Q. Abdool Karim, **S. Abdool Karim.** HIV phylogenetic analysis sheds light on transmission linkages in young women in high HIV burden districts in KwaZulu-Natal, South Africa. THAX0104
- B. Mabvakure, B. Lambson, K. Ramdayal, L. Masson, P. Moore, **S. Abdool Karim,** C. Scheepers, C. Williamson, D. Martin, J.-A. Passmore, G. Harkins, L. Morris. Analysis of HIV-1 subtype C envelope sequence diversity in the female genital tract from early infection reveals no evidence for compartmentalization. TUPEC219
- N. Ngcobo, L. Mansoor, S. Mkhize, C. Montague, M. Tshabalala, **S. Abdool Karim,** Q. Abdool Karim. Integration of HIV prevention and sexual reproductive health services using a quality improvement intervention: experiences from rural KwaZulu-Natal, South Africa. WEPEE572
- S. Ngcapu, A.M. Carias, L.J. Liebenberg, L. Werner, G.C. Cianci, M. McRaven, S. Sibeko, N.J. Garrett, J.-M. Kriek, L.R. McKinnon, **S. Abdool Karim,** Q. Abdool Karim, J.-A.S. Passmore, T.J. Hope. Effect of injectable hormonal contraceptives on vaginal epithelium thickness and genital HIV target cell density in women recently infected with HIV. WEAA0102
- C. Baxter, L. Mansoor, K. Mngadi, N. Ngcobo, N. Yende-Zuma, T. Gengiah, Q. Abdool Karim, **S. Abdool Karim.** Expanding the contraceptive method mix for women at high-risk of HIV: experiences from the CAPRISA 008 Tenofvir Gel Implementation trial. TUPEE556
- N. Ngandu, J. Carlson, D. Chopera, N. Ndabambi, S. Goodier, N. Garrett, N. Samsunder, Q. Abdool Karim, **S. Abdool Karim,** C. Williamson. Selection of HIV-1 variants with higher transmission potential by 1% tenofovir gel microbicide. TUPDA0101
- L. Liebenberg, L.R. McKinnon, K. Leask, A. Rositch, N. Garrett, N. Samsunder, A. Kharsany, A. Grobler, A. Singh, J.-A. Passmore, **S.S. Abdool Karim,** Q. Abdool Karim. The mechanisms and role of HPV in enhancing HIV transmission in women in South Africa
- L.E. Mansoor, Q. Abdool Karim, K.T. Mngadi, C. Montague, N. Yende-Zuma, H. Dawood, T.N. Gengiah, N. Samsunder, C. Baxter, J.L. Schwartz, G.F. Doncel, F. Ntombela, A. Grobler, **S.S. Abdool Karim.** Good adherence in trial of topical pre-exposure prophylaxis integrated into family planning services. FRAE0102

2015

Victor Daitz Foundation presentation, 18 February 2015

- **Abdool Karim SS.** CAPRISA: Research for impact on the global HIV epidemic

CROI 2015, Boston, Massachusetts, 24-26 February 2015

- **Abdool Karim SS.** Use of empiric TB treatment for people living with HIV HIV/TB Research Meeting

University of KwaZulu-Natal, Research Strategy Group Meeting, 7 May 2014

- **Abdool Karim SS.** Research productivity rewards: Thoughts on the journal article criterion

KZNDOH CCMT Symposium, 7 May 2015

- **Abdool Karim SS.** AIDS in South Africa: Prospects and challenges for KwaZulu-Natal

NIH-MRC IPPCR Course, Cape Town, South Africa, 11 May 2015

- **Abdool Karim SS.** Clinical and translational research in practice

FHI360 meeting, North Carolina, USA 18 May 2015

- **Abdool Karim SS.** HIV/AIDS in South Africa: Opportunities for research collaborations with CAPRISA

Ragon Institute Scientific Advisory Board Meeting, Boston, USA, 19 May 2015

- **Abdool Karim SS.** Clinical trial designs to expedite proof-of-concept and efficacy estimation

KwaZulu Natal Doctors Healthcare Coalition (KZNDHC) Healthcare Institute Conference, 6 June 2015

- **Abdool Karim SS.** The Global HIV epidemic: Progress, Prospects and challenges

SA AIDS Conference – Symposium: From Results to Roll-out – Accelerating Access of Biomedical Products after Clinical Trial Results, Durban, South Africa, -7-10 June 2015

- **Abdool Karim SS.** Advances in biomedical prevention research: Preparing for Success

Launch of the UNAIDS-Lancet Commission Report, London, UK, 25 June 2015

- **Abdool Karim SS.** Defeating AIDS: Advancing global health

HIV Center Strategic Advisory Committee Meeting, 2 July 2015

- **Abdool Karim SS.** The Global HIV Epidemic: Prospects and Challenges

8th IAS Conference on HIV Pathogenesis, Treatment & Prevention, Vancouver, Canada, 15 July 2015

- **Abdool Karim SS.** Clinical trials in young women Clinical Trial Literacy among Vulnerable Populations

Lifeline AGM, Kingspark Growthpoint Stadium, Durban, South Africa, 5 August 2015

- **Abdool Karim SS.** The HIV epidemic – an update.

PrEP meeting, Johannesburg, South Africa, 13 August 2015

- **Abdool Karim SS.** Biological plausibility for PREP use in women

Faculty Day, Faculty of Health Sciences, University of Pretoria, Pretoria, South Africa, 19 August 2015

- **Abdool Karim SS.** Partnering for research success: Lessons from CAPRISA

Institute for Human Virology Meeting, Boston, USA, 9 September 2015

- **Abdool Karim SS.** Advancing Global Health: Lessons from the response to the HIV epidemic

Gilead Sciences Lecture, California, USA, 23 September 2015

- **Abdool Karim SS.** Young women & HIV in South Africa: Risks, vulnerability and prevention strategies

Bernard Pimstone Lecture, University of Cape Town, Cape Town, South Africa, 1 October 2015

- **Abdool Karim SS.** Young women & HIV in South Africa: Risks, vulnerability and prevention strategies

2nd meeting of the Organising Committee of the 5th Eastern Europe and Central Asia HIV/AIDS Conference, Moscow, Russia, October 2016

- **Abdool Karim SS.** HIV prevention: Prospects and challenges

2014

Animal and Human Vaccine Development in South Africa: University of Pretoria, 30 January 2014

- **Abdool Karim SS.** Microbicides: State of the field & next challenges

CROI 2014, Boston, Massachusetts at the Hynes Convention Center, 3-6 March

- Garrett NJ, Werner L, Naicker N, Mthembu T, Naranbhai V, Sibeko S, Samsunder N, Williamson C, Abdool Karim Q, **Abdool Karim S.** Does Tenofovir Gel Alter HIV Disease Progression in CAPRISA 004 Trial Seroconvertors?
- Garrett NJ, Werner L, Mlisana K, McKinnon L, van Loggerenberg F, Ndung'u T, Gray C, Morris L, Williamson C, **Abdool Karim S.** Rapid Disease Progression in HIV-1 Subtype C Infected South African Women
- Redd A, Mullis C, Sheward D, Williamson C, Werner L, Garrett N, Porcella S, Abdool Karim Q, Quinn T, **Abdool Karim S,** TRAPS Study Team. Limited HIV-1 Superinfection in Seroconvertors from the CAPRISA 004 Microbicide Trial.

The John Ring La Montagne Memorial Lecture, NIAID, NIH - 13 March 2014

- **Abdool Karim SS.** Envisioning "The End of AIDS": Challenges and Prospects

Gilead Sciences, California, 14 March 2014

- **Abdool Karim SS.** Preventing HIV: CAPRISA's microbicide & vaccine research

HIV Congress 2014, Taj Lands End Hotel, Mumbai, India, March 2014

- **Abdool Karim SS.** New WHO recommendations and its impact on resource limited countries

16th ICID, Cape Town, 3 April 2014

- **Abdool Karim SS.** Antiretrovirals for HIV prevention: new hope and opportunity

Treatment as Prevention in Africa: Botswana April 30 – May 3, 2014

- **Abdool Karim SS.** Microbicides: State of the field & next challenges

Gates Foundation Meeting, New York, 3 June 2014

- **Abdool Karim SS.** Genital inflammation: a significant sub-clinical risk mechanism for HIV acquisition in young women in SA

BIA Spring meeting, 13th June 2014, SOAS, London

- **Abdool Karim SS.** Integrating HIV and TB treatment: Challenges and Opportunities

20th International AIDS Conference, 21-25 July, 2014 Melbourne, Australia

- **Abdool Karim SS.** State of the art: Epidemiology and access

SAMA Conference 2014: Healthcare in South Africa and the millennium development goals: yesterday, today & tomorrow 29-31 August 2014

- **Abdool Karim SS.** Health in South Africa: changes and challenges since 2009

16th Annual International Meeting of the Institute of Human Virology September 14, 2014

- **Abdool Karim SS.** The Global HIV Epidemic: Prospects and Challenges

PATH IX meeting, 19 September 2014, Sydney, Australia

- **Abdool Karim SS.** Antiretrovirals for HIV prevention

Southern African HIV Clinicians Society Conference 24 – 27 September 2014, Cape Town

- **Abdool Karim SS.** The HIV Epidemic: Progress & Challenges
- **Abdool Karim SS.** Is HIV incidence going down?

HIV Prevention Workshop, 24 October 2014, Hermanus, South Africa

- **Abdool Karim SS.** The HIV epidemic: Past, Present & Future...

HIV Research for Prevention (HIV R4P), 28-31 October, Cape Town, South Africa

- Wibmer CK, Sheward DJ, Bhiman JN, Ndabambi N, Elliot DH, Rouelle J, Smira A, **Abdool Karim SS**, Robinson JE, Morris L, Williamson C, Moore PL. Viral Escape Pathways from Broadly Neutralising Antibodies Targeting the HIV Envelope Cleavage Site Enhance MPER Mediated Neutralisation. [Oral presentation Abstract number: OA06.05]
- Kløverpris HN, Noorbhai A, Kuhn W, Yadon M, Ramsuran D, Nhamoyebonde S, Kasproicz V, Walker B, Ndung'u T, Goulder P, **Abdool Karim S**, Mjøsberg J, Leslie A. Innate Lymphoid Cells are Depleted in HIV Infection [Oral presentation Abstract number: OA04.02]
- Bhiman JN, Doria-Rose NA, Wibmer CK, Sheward DJ, Williamson C, **Abdool Karim SS**, Kwong PD, Mascola JR, Morris L, Moore PL. Maturation of Broadly Neutralizing V1V2 directed Antibodies in the Context of Autologous Viral Escape. [Oral presentation Abstract number: OA12.01]
- Richardson SI, Gray E, Mkhize N, Sheward D, Lambson B, Wibmer K, Masson L, Werner L, Garrett N, Passmore J-A, **Abdool Karim S**, Williamson C, Moore P, Morris L. The Sequence of the $\alpha 4\beta 7$ -binding Motif on Gp120 of Transmitted/Founder Viruses Contributes to the Dependence on the Integrin for HIV Infection. [Oral presentation Abstract number: OA21.02]

- Mkhize NN, Madiga M, Durgiah R, Gray ES, Moore PL, Sibeko S, **Abdool Karim S**, Morris L, CAPRISA Acute Infection Study Team. The Impact of Antiretroviral Treatment on HIV-1-Specific Broadly Neutralizing Antibody Responses. [Oral presentation Abstract number: OA30.03]
- Doria-Rose NA, Roark RS, Moore P, Erandes MJ, Bhiman JN, Schramm CA, McKee K, O'Dell S, Louder M, **Abdool Karim SS**, Shapiro L, Morris, Mascola JR. Variable Dependence on Glycan Recognition within a Lineage of V1V2-directed HIV Neutralizing Antibodies. [Poster discussion Abstract number: PD05.02]
- Gengiah TN, Werner L, Abdool Karim Q, Sallim S. **Abdool Karim SS**. Tenofovir Gel Use in Women at High Risk of HIV Infection: A Retrospective Analysis of the Sex Worker Sub-group within the CAPRISA 004 Cohort. [Poster Abstract number: P13.05]
- Scheepers C, Naicker D, Schramm C, Sheng Z, Ismail A, **Abdool Karim SS**, Lambson B. Strain Specific Anti-HIV Antibody Evolution during Acute Infection and Viral Escape. [Poster Abstract number: P34.08]
- Baxter C, Ngcapu S, Blackard JT, Powell EA, Penton PK, Abdool Karim Q, **Abdool Karim SS**. Impact of Tenofovir 1% Gel on Hepatitis B Virus Resistance in CAPRISA 004. [Poster Abstract number: P38.02]
- Archary D, Liebenberg LJ, Werner L, Tulsī S, Majola N, Naicker N, Dlamini S, Samsunder N, **Abdool Karim SS**, Passmore J-AS, Morris L, Garrett N. Softcup Compared to Cervicovaginal Lavage Sampling: Determining Total and HIVspecific IgGs in the Female Genital Tract – A Randomized Study. [Poster Abstract number: P40.03]
- Liebenberg LJ, Garrett N, Werner L, Majola N, Naicker N, Samsunder N, Dlamini S, Passmore J-AS, **Abdool Karim SS**, Archary D. A Randomized Study Comparing Softcup and Cervicovaginal Lavage Sampling to Measure Genital Cytokine Concentrations in HIV infected Women. [Poster Abstract number: P40.17]
- Arnold K, Burgener A, Birse K, Dunphy L, Shahabi K, Abou M, Kwatampora J, Nyanga B, Kimani J, Liebenberg L, Masson L, **Abdool Karim SS**, Passmore J-AS, Lauffenburger DA, Kaul R, McKinnon LR. Mucosal Proteomic Profiles Associated with Female Genital Tract Inflammation. [Poster Abstract number: P40.19]
- Ngcapu S, Meiring T, Masson L, Werner L, Liebenberg L, Garrett N, Mlisana K, Williamson C, Abdool Karim Q, **Abdool Karim S**, Passmore J-AS. Presence of Male Partner Semen Influences the Inflammatory and Innate Cytokine Environment in the Female Genital Tract. [Poster Abstract number: P40.21]

Institute of Infectious Disease & Molecular Medicine (IDM) Ten-Year Anniversary Symposium, 3 November 2014, Cape Town South Africa

- **Abdool Karim SS**. *The HIV Epidemic: Progress & Challenges*

Commonwealth Science Conference, 25-28 November 2014, Bangalore India

- **Abdool Karim SS**. HIV in young women in Africa: Imperatives for prevention science

African Society for Laboratory Medicine Conference, 30 November – 4 December 2014, Cape Town, South Africa

- **Abdool Karim SS**. Laboratory Science: Sanctuary of Scientific and Clinical Research Discovery

2013

FACTS Meeting, 4 February 2013

- **Abdool Karim SS**. How South African science helped the world respond to AIDS: South African scientific breakthroughs

Keystone, Colorado, 10-15 February 2013

- Chopera D, Cotton L, Zawaira A, Mann J, Ngandu N, Ntale R, Carlson J, Mlisana K, Woodman Z, Rosa D, Martin E, Miura T, Pereyra F, Walker B, Gray C, Martin D, Ndung'u T, Brockman M, **Abdool Karim S**, Brumme Z, Williamson C. Intersubtype differences in the effect of a rare p24 Gag mutation on HIV-1 replicative fitness

NHLS Research Summit, 21-22 February 2013

- **Abdool Karim SS**. Enabling research: enriching health through research

KZN specialist Network, 27 February 2013

- **Abdool Karim SS**. The search for an AIDS vaccine and cure: Prospects and Challenges

CROI 2013, Atlanta, USA, March 3-6, 2013

- Sobieszczyk ME, Werner L, Garrett N, Mlisana K, Feinstein A, Naicker N, Gray C, Passmore J-A, Williamson C, **Abdool Karim S** and the CAPRISA 002 Acute Infection Study Team. Prevalence and Predictors of Metabolic

Abnormalities and Metabolic Syndrome in South African Women with Acute and Early HIV-1 Subtype C Infection.

- Chopera D, Mann J, Martin E, Ndabambi N, Naranbhai V, **Abdool-Karim S**, Brumme Z, Ndung'u T, Brockman M, Williamson C and the CAPRISA 004 study team. No impact of 1% Tenofovir Gel on HIV-1 Gag-Protease or Nef Function in Break-through Viruses from the CAPRISA 004 Trial

South African HIV Clinicians Society CME - 18 June

- **Abdool Karim SS**. 30 years since the discovery of HIV: remaining challenges and future science

6th SA AIDS Conference ICC Durban, South Africa 18 – 21 June 2013

- **Abdool Karim S**. Building on success: The role of South African science in the AIDS response [Plenary]
- **Abdool Karim S**. The clinical trials landscape against a South African backdrop. Symposium: Linking HIV prevention research in South Africa to the realities of women's lives
- Mngadi K, Maarschalk SN, Grobler A, Mansoor LE, Frohlich J, Madlala B, Ngcobo N, **Abdool Karim SS**, Abdool Karim Q. Adherence to the use of microbicides and partner disclosure.
- Shey M, Maharaj N, Liebenberg L, Archary D, Ngcapu S, Samsunder N, Garrett N, Abdool-Karim Q, Abdool-Karim S, Passmore J-A. Role of inflammatory cytokines and TLR ligands in modulating genital tract-derived dendritic cell activation
- Naicker N, Werner L, van Loggerenberg F, Mlisana K, Garrett N, Kharsany A, **Abdool Karim S**. Predictors of HIV Acquisition in High Risk Women in Durban, South Africa.
- Thebus R, Moore P, Gray E, Werner L, Bandawe G, Ngandu N, Mlisana K, **Abdool-Karim SS**, Morris L, Williamson C for the CAPRISA Acute Infection Study Team. Broadly cross-neutralizing antibodies are associated with changes in V1V2 variable loop length
- Tomita A, van Loggerenberg F, Werner L, Mpanza L, Mlisana K, Garrett N, **Abdool-Karim S**. Impact of Antiretroviral Therapy on Quality of Life among South African Women in the CAPRISA 002 Acute Infection study
- Archary D, Werner L, Yates N, **Abdool-Karim S**, Abdool-Karim Q, Passmore J-A, Morris L, Tomaras G. HIV-1 specific binding IgGs in the female genital tract correlate with systemic IgGs and sexually transmitted infections in the CAPRISA 004 Cohort.
- Shey M, Maharaj N, Liebenberg L, Archary D, Ngcapu S, Samsunder N, Garrett N, Abdool-Karim Q, **Abdool-Karim S**, Passmore J-A. Role of inflammatory cytokines and TLR ligands in modulating genital tract-derived dendritic cell activation
- Shey M, Maharaj N, Liebenberg L, Archary D, Ngcapu S, Samsunder N, Garrett N, Abdool-Karim Q, **Abdool-Karim S**, Passmore J-A. Cervical Tissue Explant Model to Study the Role of Inflammatory Cytokines and TLR Agonists on Dendritic Cell Migration and Activation

7th IAS Conference on HIV Pathogenesis and Treatment, 30 June– 3 July 2013

- Naidoo K, Abdool Karim Q, Bhushan A, Naidoo K, Yende-Zuma Y, Mchunu PK, Frohlich J, Karim F, Upfold M, Kocheleff P, **Abdool Karim SS**. High rates of unmasking tuberculosis in patients accessing HAART in rural South Africa: implications for HIV and TB treatment programs Abstract no. TUPDB0101
- Shey MS, Maharaj NR, Liebenberg LJ, Archary D, Ngcapu S, Samsunder N, Garrett N, Abdool-Karim Q, **Abdool-Karim S**, Passmore J-A. Role of inflammatory cytokines and TLR ligands in modulating genital tract-derived dendritic cell activation [Abstract TUPE228]
- Reddy K, Ooms M, Mlisana K, **Abdool Karim S**, Simon V, Ndung'u T, CAPRISA Acute Infection Team. Association of APOBEC3G genetic variants with HIV-1vif sequence variation and impact on HIV-1 pathogenesis [MOPDA0103]

Preparing for success: Social marketing and ARV-based prevention - September 2013 Think Tank

- **Abdool Karim S**. ARV-based prevention

AIDS Vaccine 2013: Progress, Partnership, and Preservation. Barcelona, 7-10 October 2013

- Bhiman JN, Doria-Rose N, Moore PL, Nonyane M, **Abdool Karim SS**, Kwong PD, Mascola JR, Morris L. Interplay between broadly cross-neutralizing V2 monoclonal antibodies and autologous viral evolution. [Oral abstract: OA05.03]
- Richardson SI, Mkhize N, **Abdool Karim SS**, Gray E, Morris L. Role of integrin $\alpha 4\beta 7$ in HIV transmission and pathogenesis. [Oral abstract: OA07.02]

- Doria-Rose NA, Moore P, Staube R, Bhiman J, Ernandes M, Georgiev I, Bailer R, Louder M, O'Dell S, McKee K, Crooks E, Schmidt S, **Abdool Karim S**, Gorman J, Schramm C, Longo N, Pancera M, Rudicell R, Yang Y, Zhang Z, Zhu J, Binley J, Shapiro L, Kwong P, Morris L, Mascola J. A family of broad and highly potent V1V2-directed HIV-1 neutralizing antibodies with long CDRH3s from a South African seroconverter. [Abstract: P03.20]
- Schramm C, Doria-Rose NA, Gorman J, Moore PL, Staube RP, Zhang Z, Yang Y, Bhiman J, Georgiev I, Longo NL, Pancera M, Mullikin JC, **Abdool Karim S**, Morris L, Kwong PD, Mascola JR, Shapiro L. Long CDR H3 of a broadly-neutralizing antibody is present at recombination. [Abstract: P03.38]
- Wimber CK, Bhiman JN, Gray ES, Tumba NL, **Abdool Karim SS**, Morris L, Moore PL. Escape from HIV-1 neutralising antibodies drives an increase in plasma neutralization breadth through recognition of multiple epitopes and immunotypes. [Abstract: P03.52].
- Chopera DR, Mann J, Mwimanzi P, Omarjee S, Kuang X, Ndabambi N, Goodier S, Martin E, Naranbhai V, **Abdool Karim SS**, Abdool Karim Q, Brumme Z, Ndung'u T, Williamson C, Brockman M. No evidence for selection of HIV-1 with enhanced Gag-Pro or Nef function among breakthrough infections in the CAPRISA 004 tenofovir microbicide trial. [Abstract: P05.19]
- Reddy K, Winkler C, Werner L, Mlisana K, **Abdool Karim SS**, Ndung'u T. APOBEC3G and -3F induced cytidine deamination and association with viral control in a population with high frequency of the APOBEC3G H186R variant. [Abstract: P0.13]
- Lambson B, Mitchell C, Gray E, **Abdool Karim SS**, Morris L. Copy number variation of the immunoglobulin heavy chain variable gene 1-69 in HIV-1 infected individuals. [Abstract: P06.14]
- Archary D, Seaton K, Yates NL, Werner L, Bergin PJ, Liebenberg LJ, Samsunder N, Garrett N, Abdool Karim Q, **Abdool Karim SS**, Liao H, Passmore J-A, Morris L, Tomaras GD. HIV-1 specific binding antibody titres in blood predict detection in the female genital tract in women who become infected in the CAPRISA 004 microbicide. [Abstract: P08.02]
- Mkhize NN, Garrett N, Archary D, Hermanus T, Majola N, Samsunder N, Williamson C, Shattock R, Passmore J-A, **Abdool Karim SS**, Morris L. Potent neutralizing antibodies can be recovered from genital tract using the non-invasive Softcup® technique. [Abstract: P08.03]
- Barnabas SL, Mkhize NN, Masson L, Werner L, Archary D, Mlisana K, Williamson C, Abdool Karim S, Morris L. Levels of HIV gp120-specific binding antibodies in the female genital tract are correlated with genital inflammation. [Abstract: P08.06]
- Ngcapu S, Masson L, Sibeko S, Shey M, Samsunder, **Abdool Karim SS**, Abdool Karim Q, Passmore J. Hormonal contraception use and HIV-1 risk in the context of prevention research: DMPA and NET-EN dampen immunity in the female genital tract. [Abstract: P08.17]

HASA Quality Improvement Summit Cape Town, 28-30 Oct 2013

- Ngcobo N, Mansoor LE, Mkhize S, Matlala R, Montague C, Tshabalala M, **Abdool Karim S**, Abdool Karim Q. Enhancing Access to Sexual Reproductive Health Services in a Public Sector Primary Care Clinic in Rural KwaZulu-Natal, using a Quality Improvement Intervention
- Mvandaba N, Mansoor LE, Tshabalala M, Mngadi K, **Abdool Karim SS**, Abdool-Karim Q. Increasing Cervical Cancer Screening in a Family Planning Clinic using a Quality Improvement Approach

HVTN Conference, Cape Town, South Africa, 25 October

- **Abdool Karim S**. The End of AIDS: Challenges & Prospects. Closing Plenary

Ragon-CAPRISA-HPP HIV Prevention Workshop, Drakensberg, KwaZulu-Natal, 12-14 November 2013

- **Abdool Karim S**. Microbicides: State of the field & next challenges
- **Abdool Karim S**. Recent developments in HIV prevention: Prospects & challenges for ending AIDS

2013 Biomedical HIV Prevention Forum, Abuja, Nigeria, 18th - 20th November, 2013

- **Abdool Karim S**. Antiretrovirals for HIV prevention: new hope and opportunity. Distinguished Scholar Award Lecture

2012

USAID Microbicide Research & Development Cooperating Agencies' Meeting, FHI 360 Conference Center, Washington, DC, February 7-8, 2012

- **Abdool Karim SS**. Microbicide research at CAPRISA

Howard Hughes Medical Institute, 22 February 2012

- **Abdool Karim SS.** New hope for HIV prevention...

Harvard Global Health Institute, 2 March 2012

- **Abdool Karim SS.** New hope for HIV prevention...

Harvard CFAR Symposium, Boston, 1 March 2012,

- **Abdool Karim SS.** State of the art: ART and Prevention: local and systemic PrEP and treatment for prevention
- **Abdool Karim SS.** Adherence, drug exposure & genital tract inflammation impact on HIV prevention: Insights from CAPRISA 004

CROI 2012, Seattle, USA, March 5-8, 2012

- Abdool Karim Q, **Abdool Karim SS.** Partnering for scientific innovation in HIV prevention and treatment. N'Galy-Mann Lecture. Invited Oral
- Johnson JA, Wei X, Morris L, **Abdool Karim SS**, Sibeko S, Abdool Karim Q, Kashuba ADM, Passmore J, Hunt G, Heneine W. Sensitive Tenofovir Resistance Screening of HIV-1 from the Genital Tract of Women with Breakthrough Infections in the CAPRISA 004 Tenofovir Gel Trial
- Naranbhai V, Altfeld M, Abdool Karim Q, **Abdool Karim S**, Carr W, CAPRISA004 TRAPS Team. Natural Killer Cells Targeted Against Autologous in vitro HIV-infected Cells Correlate with HIV Protection in South African Women
- Fischer W, Hunt G, Sibeko S, Naranbhai V, Abdool Karim Q, **Abdool Karim S**, Morris L, Korber B. Tenofovir Resistance Mutation Frequencies Assessed by Deep Pyrosequencing of Plasma Virus from Breakthrough HIV Infections: CAPRISA 004 Microbicide Trial
- Mkhize N, Gray E, Moore P, Sibeko S, **Abdool Karim S**, Passmore J-A, Morris L. Broadly Neutralizing Plasma Immunoglobulin G Antibodies Transduce to the Female Genital Tract in HIV Infection
- Moore P, Gray E, Wibmer C, Bhiman J, Hermanus T, Madiga M, Nonyane M, **Abdool Karim S**, Williamson C, Morris L. Evolution of Broadly Neutralizing Antibodies during HIV-1 Infection

Microbicides 2012, Sydney, Australia, 15-18 April 2012

- **Abdool Karim SS.** CAPRISA 004 two years on: What were the lessons, what are the implications? Opening plenary
- **Abdool Karim SS.** Biological mechanisms and efficacy. In Symposium Making sense of the PrEP trial results.
- Baxter C, Yende-Zuma N, Tshabalala P, Mansoor L, Abdool Karim Q, **Abdool Karim SS.** 1% Tenofovir gel use in chronic hepatitis B virus carriers: Results from the CAPRISA 004 trial.
- Buthelezi TJ, Mlangeni MC, Samsunder N, Yende N, Kharsany ABM, Abdool Karim Q, **Abdool Karim SS.** Baseline prevalence of Human Papillomavirus Infection in Women participating in the CAPRISA 004 Tenofovir gel trial in KwaZulu-Natal, South Africa.

Alan Berkman Lecture Columbia University, New York, 25 April 2012

- **Abdool Karim SS.** New hope for HIV prevention...

6th International workshop on HIV treatment, pathogenesis and prevention research in resource-limited settings, Mombasa, Kenya, 8 May 2012

- **Abdool Karim SS.** Antiretrovirals for HIV prevention: Topical PrEP, Systemic PrEP and Treatment for Prevention

International Workshop on HLA and Immunogenetics. Liverpool, UK May 2012.

- Naranbhai V, de-Assis Rosa D, Qi Y, Altfeld M, Werner L, Ndung'u T, **Abdool Karim S**, Gram CM, Carrington M. KIR haplotype BB is associated with lower HIV-1 viral loads and higher CD4+ T-cell counts in the first two years after HIV-acquisition in South African women: early findings from the CAPRISA Acute Infection Team.

XIX International AIDS Conference, Washington DC, USA, 22-27 July 2012

- Bearnot B, Werner L, Kharsany ABM, **Abdool Karim S**, Frohlich JA, Abdool Karim Q. Impact of antiretroviral therapy initiation on HIV-positive status disclosure in rural South Africa

- MacQueen K, Albert L, Soccop S, van Loggerenberg F, Majola N, Kashuba A, **Abdool Karim S**, Abdool Karim Q.

AIDS Vaccine 2012, Boston, USA, September 9-12, 2012

- **Abdool Karim SS**. Current state of microbicides for HIV prevention
- Riou C, Mlisana K, Koup R, Roederer M, **Abdool Karim S**, de Bruyn G, Williamson C, Gray CM, Burgers WA, on behalf of the CAPRISA 002 Study Team. Increased differentiation coincides with decreased polyfunctionality for HIV but not CMV-specific CD8+ T cell responses.
- Ntale R, Chopera DR, Ngandu NK, Abrahams MR, Assis de Rosa D, Mlotshwa M, Werner L, Woodman Z, Mlisana K, **Abdool Karim S**, Gray CM, Williamson C, the CAPRISA 002 Study Team. Beneficial HLA-mediated viral polymorphisms on the transmitted virus additively influence disease progression in HIV-1 subtype C infection
- Madiga M, Mkhize NN, Moore PL, Gray ES, Sibeko S, **Abdool Karim S**, Morris L, for the CAPRISA Acute Infection Study Team. The impact of antiretroviral treatment on HIV-1-specific broadly neutralizing antibody responses.
- Tumba NL, Gray ES, Lambson BE, **Abdool-Karim SS**, Liao H-X, Haynes BF, Alam M, Morris L. Affinity maturation pathway of an anti-MPER neutralizing mAb - CAP206-CH12
- Burgers WA, Muller TL, Kiravu A, Naranbhai V, Sibeko S, Werner L, Abdool Karim Q and Abdool Karim SS. Infrequent, low magnitude HIV-specific T cell responses in HIV-uninfected participants in the 1% Tenofovir microbicide gel trial (CAPRISA004). AIDS Vaccine in Boston, September 2012

SANAC Plenary Meeting, 4 October 2012

- **Abdool Karim SS**. How South African science helped the world respond to AIDS: South African scientific breakthroughs

IDWeek 2012 (TM), San Diego, CA, October 17- 21, 2012

- Pellett Madan R, Abdool Karim et al. Activity in Female Genital Tract Secretions as a Biomarker of HIV Progression and Acquisition Risk

Mucosal Immunology Conference, Ubizane, South Africa, 14-16 November 2012

- **Abdool Karim SS**. CAPRISA 004 two years on: Key obstacles, lessons & priority research areas for a higher efficacy microbicide

SA HIV Clinicians Society Conference, Cape Town, 26-28 November 2012

- **Abdool Karim S** A history of HIV research in South Africa: What's next? (Plenary)

2011

Joint Civil Society and MTN CWG meeting, 7 October, Cape Town, South Africa

- **SS Abdool Karim**. What's happening with tenofovir gel? Access and product availability
- **SS Abdool Karim**. Setting the stage: year in review and looking ahead

IRMA and AVAC presentation, 27 September 2011, International teleconference

- **SS Abdool Karim**. Does Africa need a rectal microbicide?

Embury College, 7 September 2011, Durban, South Africa

- **SS Abdool Karim**. HIV and women in South Africa: New hope in antiretroviral microbicides to prevent HIV

Parliamentary Portfolio Committee Meeting, July, Durban, South Africa

- **SS Abdool Karim**. HIV and women in South Africa: New hope in antiretroviral microbicides to prevent HIV

National Health Research Summit

- **SS Abdool Karim**. South African research in HIV/AIDS and TB: Strengths, weaknesses, opportunities and threats

6th International Workshop on HIV Transmission, 5-6 July 2011, Rome

- **SS Abdool Karim**. Tenofovir gel and HIV transmission: Insights from the CAPRISA 004 trial

5th SA AIDS Conference, 8 June 2011, Durban, South Africa

- **SS Abdool Karim.** Future directions in ARV-based prevention: Research agendas, timely opportunities and data gaps
- **SS Abdool Karim.** HIV prevention: the latest biomedical tools
- **SS Abdool Karim.** What level of research evidence is needed for policy and practice?

Aaron Diamond AIDS Research Center, June 2011, New York

- **SS Abdool Karim.** Four key lessons from CAPRISA 004: Implications for future PrEP research

9th Conference on Research Advances in Clinical Research, ANRS, Paris, 5-6 May 2011

- **SS Abdool Karim.** Combination HIV prevention: New opportunities and technologies

Sub-Saharan Africa CFAR Conference, Kampala, 26 May 2011

- **SS Abdool Karim.** HIV and women in Africa: New hope in antiretroviral microbicides to prevent HIV

Keystone Symposia X8, 21 March 2011, Whistler, British Columbia

- **SS Abdool Karim.** Update on microbicide and pre-exposure prophylaxis trials

HIV Center, New York, 24 March 2011

- **SS Abdool Karim.** Microbicides: A new hope for HIV prevention

Merck HIV Chemoprevention Scientific Input Engagement Meeting, 14 March 2011

- **SS Abdool Karim.** Four key lessons from CAPRISA 004: Implications for future PrEP research

ARV-based prevention: a community and research forum on recent results and what happens next, 1 March 2011, Boston

- **SS Abdool Karim.** CAPRISA 004 trial update and follow-up steps

EMBO course, Stellenbosch University, 1 February 2011, Stellenbosch, South Africa

- **SS Abdool Karim.** Microbicides: A new hope for HIV prevention

MTN Meeting on next steps for ARV-based prevention, 17 January 2011, Johannesburg

- **SS Abdool Karim.** Tenofovir gel: Preparing for implementation in the health service: The CAPRISA 008 & 009 trials

2010**HIV Workshop, Durban, South Africa, 15 November 2010**

- **SS Abdool Karim.** Topical antiretrovirals for HIV prevention

Microscopy Society of Southern Africa, November 2010

- Naicker T, Sibeko S, Kharsany ABM, Naranbhai V and Abdool Karim SS (2010). HIV-1 passage through the human cervico-vaginal mucosa. 40:13.

HIV Clinician's Society Meeting, Durban, South Africa, 15 September 2010

- **SS Abdool Karim.** Tenofovir gel for HIV and HSV-2 prevention: challenges to implementation

SANAC Workshop, Glenburn Lodge, 23 August 2010

- **SS Abdool Karim.** HIV Prevention Research in South Africa

WHO / UNAIDS Meeting on Next Steps for tenofovir gel, Johannesburg, August 2010

- **SS Abdool Karim.** CAPRISA 004 Effectiveness & safety of vaginal microbicide 1% tenofovir gel for prevention of HIV infection in women
- **SS Abdool Karim.** Impact of tenofovir gel on Herpes Simplex Virus Type-2 infection

SANAC Workshop, Glenburn Lodge, 23 August 2010

- **SS Abdool Karim.** HIV Prevention Research in South Africa

XVIII AIDS Conference Vienna, Austria, 20 July 2010

- **SS. Abdool Karim, Q Abdool Karim, JA Frohlich, A Grobler, ABM Kharsany, LE Mansoor, C Baxter, S Sibeko, KP Mlisana, L Mtongana, Z Omar, S Maarschalk, N Arulappan, M Mlotshwa, D Taylor on behalf of the CAPRISA 004 Trial Group.** Impact of 1% Tenofovir Gel on Resistance, Pregnancy and Hepatitis B
- **SS Abdool Karim.** Overview of the HIV epidemic in sub-Saharan Africa
- **ADM Kashuba, SS Abdool Karim, E Kraft, N White, S Sibeko, L Werner, L Mansoor, T Gengiah, S Sidhoo, V Naranbhai, Q Abdool Karim on behalf of the CAPRISA 004 Team.** Do systemic and genital tract tenofovir concentrations predict HIV seroconversion in the CAPRISA 004 tenofovir gel trial?
- **BG Williams, SS. Abdool Karim, EG, Q Abdool Karim.** Potential impact of tenofovir gel on the HIV epidemic in South Africa
- **SS Abdool Karim.** Current and planned HIV prevention trials: microbicides and PrEP

Microbicides 2010 Conference, Pittsburg, May 23, 2010

- **SS. Abdool Karim.** Does Africa need a rectal microbicide?
- **SS. Abdool Karim.** HIV Prevention Research: The Global Picture.
- **SS. Abdool Karim.** Current and planned HIV prevention trials: microbicides and PrEP
- **Gengiah T, Mansoor L, Naidoo A, Upfold M, Naidoo K, Maharaj B, Moodley B, Abdool Karim Q, Abdool Karim S on behalf of the CAPRISA 004 Wisebag study team.** The 'Wisebag': an innovative strategy for enhancing measurement of microbicide gel use in clinical trials. [Oral Abstract 57]
- **Sibeko S, Baxter C, Yende N, Mthongana L, Abdool Karim Q, Abdool Karim S, on behalf of the CAPRISA 004 Team.** Improving contraceptive uptake and reducing pregnancy rates in a microbicide trial. [Oral Abstract 5]
- **Mansoor L, Abdool Karim Q, Yende N, Abdool Karim SS on behalf of the CAPRISA 004 study team.** Measuring Adherence in the CAPRISA 004 Tenofovir Microbicide Gel Trial. [Poster Abstract 260]
- **Mtongana L, Omar Z, Miya N, Mansoor L, Yende N, Abdool Karim SS, Abdool Karim Q, on behalf of the CAPRISA 004 Team.** Does exclusion of study volunteers for renal, hepatic and bone related safety concerns impact the representativeness of the study population in a tenofovir trial: Experiences of the CAPRISA 004 trial? [Poster Abstract 280]
- **Kharsany A, Abdool Karim Q, Abdool Karim SS, Frohlich JA, Mlisana K, Grobler A, Yende N, on behalf of the CAPRISA 004 Team.** Urban – rural differences in baseline characteristics of CAPRISA 004 trial participants. [Poster Abstract 286]
- **Maarschalk S, Frohlich J, Ntombela F, Mlotshwa M, Abdool Karim SS, Abdool Karim Q, on behalf of the CAPRISA 004 team.** Structured tools for assessing literacy levels and comprehension assessment in the informed consent process: Experiences from a Microbicide trial in rural KwaZulu Natal, South Africa. [Poster Abstract 281]
- **Frohlich J, Maarschalk S, Ntombela F, Abdool Karim Q, Abdool Karim SS, on behalf of the CAPRISA 004 Recruitment and Retention Team.** Innovative strategies in a Phase IIb microbicide trial results in high retention: Experiences from CAPRISA 004. [Poster Abstract 285]

MMCI Annual Meeting, Crystal City Marriot, Arlington, VA, Friday, 19 March 2010

- **SS Abdool Karim.** Plans for communicating the results of CAPRISA 004

World Health Organisation, Geneva Switzerland, 17 February 2010

- **SS Abdool Karim.** The evolution of the HIV epidemic in South Africa.

Mini-symposium: HIV Epidemic in Africa: learning from cohorts, Durban, South Africa 10 March 2010

- **SS Abdool Karim.** Twenty years experience in establishing cohorts for HIV studies: Lessons learnt

2nd National Conference on HIV/AIDS Therapy: Current practice and future options Mumbai, India, 10 January 2010

- **SS Abdool Karim.** Research Agenda for Resource Limited Settings: Lessons Learnt & Directions for the Future

Council on Foreign Relations Global Health Meeting, Cape Town, 21 January 2010

- **SS Abdool Karim.** HIV prevention in South Africa: Is the NSP target of 50% reduction in HIV incidence feasible? A response...

2009

5th IAS Conference on Pathogenesis, Treatment and Prevention Cape Town, South Africa, 19-22 July 2009

- **Abdool Karim S.** Microbicide Trials: Current and Future Strategies
- M.C. Madiga, E. Gray, P. Moore, K. Mlisana, **S. Abdool Karim**, C. Williamson, L. Morris. Development of intra- and inter-subtype cross-neutralizing antibodies in HIV-1 subtype C infection (Abstract MOPEA003)
- K.B. Alexandre, B. Lambson, E. Gray, R. Chikwamba, K. Mlisana, **S. Abdool Karim**, J. McMahon, B. O'keefe, L. Morris. Entry inhibition of HIV-1 subtype C from blood and vaginal mucosa by the lectins griffithsin, cyanovirin-N and scytovirin: potential HIV microbicides (Abstract WEPDC206)
- Naidoo, K. Naidoo, **S. Abdool Karim**, N. Padayatchi, T. Gengiah, A. Singh, M. Khan, N. Yende, M. Murrman, G. Friedland. Impact of integrating TB and HIV care on adherence to anti-TB therapy and antiretroviral therapy, results from the Starting Tuberculosis and Anti-Retroviral Therapy - START study (Abstract WEPED189)

Harvard Initiative for Global Health (HIGH), 22 May 2009

- **Abdool Karim S.** Microbicides: A glimmer of hope for HIV prevention

MTN Annual Meeting, Arlington, Virginia, USA, 21 April 2009

- **Salim Abdool Karim**, Pamina Gorbach, Lisa Maslankowski, Irving Hoffman, Tom Moench, Al Profy, Barbra Richardson on behalf of the HPTN 035 Study Team. HPTN 035: Safety and Effectiveness of the Vaginal Microbicides BufferGel and 0.5% PRO 2000 Gel for the Prevention of HIV Infection in Women

Conference on Retroviruses and Opportunistic Infections Montreal, February 2009

- **Salim S Abdool Karim** on behalf of: Anne Coletti, Barbra Richardson, Gita Ramjee, Irving Hoffman, Michael Chirenje, Taha Taha, Muzala Kapina, Lisa Maslankowski, Estelle Piwowar, Benoit Mâsse, Sharon Hillier, Lydia Soto-Torres and the HPTN 035 Team. Safety and Effectiveness of Vaginal Microbicides BufferGel and PRO 2000 Gel for the Prevention of HIV Infection in Women. Results of the HPTN 035 Trial
- **Salim S. Abdool Karim** on behalf of: Kogieleum Naidoo, Anneke Grobler, Nesri Padayatchi, Andrew Gray, Jacqueline Pienaar, Tanuja Gengiah, Gonasagrie Nair, Sheila Bamber, Aarthi Singh, Munira Khan, Wafaa El-Sadr, Gerald Friedland and Quarraisha Abdool Karim. Addressing challenges in treating TB-HIV co-infected patients. The SAPiT Trial: Starting Antiretroviral therapy at three Points in TB

Highway Hospice Annual General Meeting, Durban South Africa 29 April 2009

- **Salim S. Abdool Karim.** HIV/AIDS and TB in South Africa

Harvard Center for AIDS Research Conference Series, Boston, USA, 22 May 2009

- **Salim S. Abdool Karim.** Challenges in treating TB and HIV
- **Salim S. Abdool Karim.** Challenges in treating HIV-TB co-infection

2008

AIDS Vaccine Initiative (IAVI) Opening of the new AIDS Vaccine Design and Development Laboratory, Brooklyn Army Terminal, New York, 12 November 2008

- **Abdool Karim S.** AIDS pandemic and HIV prevention strategies

UNAIDS Workshop – The future of UNAIDS, Durban, South Africa, 17th November 2008

- **Abdool Karim S.** AIDS Research: Contributions to controlling HIV: Role of UNAIDS in Research

World Health Organization/University of Nanjing Symposium, Scientific, regulatory and public health aspects of microbicide research and development, Nanjing, China, 3-6 November 2008

- **Abdool Karim S.** Research design: Why undertake clinical trials
- **Abdool Karim S.** Microbicide regulation in South Africa
- **Abdool Karim S.** Microbicides and the community

Bio2Biz, Johannesburg, South Africa, 15th September 2008

- **Abdool Karim S.** Clinical development and testing of Tenofovir microbicide gel: A South African biotech initiative

AIDS 2008 Vaccine Meeting, Cape Town, South Africa, 13-15 October 2008

- **Abdool Karim S.** Antiretroviral Prophylaxis: Point of convergence in the scientific agendas for pre- and post-

- exposure prophylaxis, microbicides & perinatal HIV prevention
- Treurnicht FK, Mlotshwa M, Mlisana K, Woodman Z, Abrahams M-R, Bredell W, Bandawe G, Martin D, **Abdool Karim SS**, Gray C, Williamson C and the CAPRISA 002 Acute Infection Study Team. HIV-1 subtype C superinfection associated with a shift in CTL responses and transient increase in viral load.
- Bandawe G, Martin D, Treurnicht F, Mlisana K, **Abdool Karim S**, Williamson C and the CAPRISA Acute Infection Study team. Positive selection in HIV-1 subtype C gp41 in acute and chronic infection.
- Mlotshwa M, Riou C, van Loggerenberg F, Mlisana K, Williamson C, **Abdool Karim S** and Gray CM and the CAPRISA 002 study team. Rapid evolution of HIV specific T cell responses within the first six months of subtype C infection
- Moore PL, Ranchohe N, Lambson BE, Gray ES, Abrahams M-R, Mlisana K, **Abdool Karim SS**, Williamson C, Morris L, the CAPRISA Acute Infection Study Team and CHAVI. Analysis of Neutralization Escape Suggests Limited Neutralizing Antibody Specificities in Early HIV-1 Subtype C infection.
- Riou C, Burgers WA, Mlotshwa M, de Assis Rosa D, Mlisana K, Koup R, Roederer M, **Abdool Karim SS**, Williamson C, Gray CM and the CAPRISA 002 Study Team. Less Differentiated and more long-lived CD8+ T memory cells during early subtype C HIV-1 infection Correlates with Lower Viral Set Point.
- Lambson BE, Moore PL, Abrahams M-R, Mlisana K, **Abdool Karim SS**, Williamson C and Morris L. Generation of multiple HIV-1 subtype C envelope single-genome amplification (SGA) products from cervico-vaginal lavage samples from the CAPRISA Acute Infection cohort
- Roberts L, Passmore J, Bebell L, Iriogbe I, Williamson C, Mlisana K, Van Loggerenberg F, **Abdool Karim Q**, **Abdool Karim S**. Elevated inflammatory cytokines in the female genital tract during acute HIV-1 infection correlate with enhanced CD4 and T-cell decline and higher viral load at set point

Center for HIV/AIDS Vaccine Immunology (CHAVI) Clinical Site Meeting, Cape Town, South Africa, 11-12 October 2008

- Abdool Karim S**. Identifying acute HIV infection: Interim results from CHAVI 001

AIDS XVII Conference, Mexico City, 3-8 August 2008

- Abdool Karim S**. S including: ART containing vaginal microbicides in the clinical pipeline: status of the studies
- Mlisana K; Feinstein A; Sobieszczyk M; Werner L; Williamson C; van Loggerenberg F and **Abdool Karim S**. Clinical features of Acute Subtype C HIV-1 infection associated with disease progression in South African Women
- Abdool Karim Q**, Meyer-Weitz A, Mboyi L, Carrara H, Mahlase G, Frohlich JA, **Abdool Karim SS**. The influence of AIDS stigma and discrimination and social cohesion on HIV testing and willingness to disclose HIV in rural KwaZulu-Natal, South Africa
- Sobieszczyk M; Mlisana K; Feinstein A; Werner L; Auld S; Williamson C; van Loggerenberg F and **Abdool Karim S**. Metabolic Abnormalities in South African Women Acutely Infected with HIV-1 Subtype C.

Keystone Workshop, Fairmont Banff Springs, Canada, 27 March-01 April 2008

- Burgers WA, Williamson C, Mlisana K, **Abdool Karim S**, Roederer M, Koup R, Gray C and the CAPRISA 002 study team. Function and phenotype of T cell responses in acute HIV-1 subtype C infection
- Mlotshwa M, Riou C, Khoury G, van Loggerenberg F, Mlisana K, Williamson C, **Abdool Karim S** and Gray CM and the CAPRISA 002 study team. IL-2+ CD4+ T cell responses, but not INF-g+ CD8+ T cell responses, predict HIV-1 disease progression in subtype C acutely infected subjects.

3rd International Conference on HIV Treatment Adherence, Jersey City, New Jersey, 17-18 March 2008

- van Loggerenberg F, Murrman M, Naidoo K, **Abdool Karim SS** and Grant A, for the CAPRISA 058 study team. CAPRISA 058: Development of an enhanced adherence support programme (E-ASP) for Highly Active Antiretroviral Therapy (HAART) in Durban, South Africa

Microbicides 2008 Conference, New Delhi, India, 25 February 2008

- Abdool Karim S**. Opportunities & Challenges of Microbicide Research in Africa
- Frohlich JA, Ntombela F, **Abdool Karim Q**, **Abdool Karim SS** on behalf of the CAPRISA 004 team. Multi-dimensional Approach to Community Preparedness –Experiences. From Rural KwaZulu-Natal, South Africa.
- Kharsany ABM, Frohlich JA, Mlisana KP, **Abdool Karim SS**, **Abdool Karim Q** on behalf of the CAPRISA 050/051 team . High HIV incidence rates in young women in urban and rural KwaZulu-Natal: Experiences in preparation for the CAPRISA 004 Phase IIb Tenofovir Gel Trial

- Maarschalk SN, Kharsany ABM, Frohlich J, Mlotshwa M, Mbambo S, Ndimande C, Phungula B, Manyoni N, Ngwenya P, Zwane P, Luthuli L, Mkhize Z, Ngobeni P, Abdool Karim Q, **Abdool Karim SS** on behalf of the CAPRISA 004 team. A structured tool for assessing Literacy Levels and Linguistic Preferences in preparation for the informed consent process: Experiences from the CAPRISA 004 Phase IIb Tenofovir Gel Trial
- Baxter C, Frohlich JA, Kharsany ABM, Sibeko S, Maarschalk S, Arulappan N, **Abdool Karim SS**, Abdool Karim Q on behalf of the CAPRISA 004 Team. Contraceptive provision and choices among women participating in the CAPRISA 004 Phase IIb Tenofovir Gel Trial in urban and rural KwaZulu-Natal, South Africa
- Mansoor LE, Abdool Karim Q, Madlala B, MacQueen K, Mlotshwa M, van Loggerenberg F, **Abdool Karim SS** on behalf of the CAPRISA 004 team. Development of Materials and Tools for the Adherence Support Program in CAPRISA 004 Phase IIb Tenofovir Gel Trial

CROI 2008, Boston, United States, 3-7 February 2008

- Chopera DR, Woodman Z, Mlotshwa M, Martin DP, Seoighe C, Assis de Rosa D, Mlisana K, **Abdool Karim S**, Gray CM, Williamson C. Transmission of HIV-1 CTL escape variants provides HLA-mismatched recipients with a survival advantage
- Williamson C, Abrahams M, Treurnicht F, Seoighe C, Wood N, Passmore J, Bebell L, Mlisana K, Hahn B, **Abdool Karim S**. The Majority HIV-1 Subtype C Infections are a Result a Single HIV-1 Variant Transmission, with Multiple Variant Transmission Associated with Increased Inflammatory Cytokines in Genital Secretions
- Moore PL, Gray ES, Choge IA, Ranchohe N, Mlisana K, **Abdool Karim SS**, Williamson C, Morris L, the CAPRISA 002 study and the CHAVI Consortium. The C3-V4 Region Is A Major Target Of Autologous Neutralizing Antibodies In HIV-1 Subtype C Infection

2007

IOM Committee on Methodological Challenges in HIV Prevention Trials, Washington, United States, 6-7 February 2007

- **Abdool Karim S**. HIV incidence estimation for prevention trials
- **Abdool Karim S**. Phase IIb trial to assess the safety & effectiveness of the vaginal microbicide 1% Tenofovir gel for the prevention of HIV infection in women in South Africa

UN Country Representatives HIV/AIDS Workshop for Southern Africa, Johannesburg, South Africa, 19-21 March 2007

- **Abdool Karim S**. Why is HIV hyper-endemic in South Africa?

HIV Infection and the Central Nervous System: Developed and Resource-Limited Settings, Venice - San Servolo, Italy, 14-16 April 2007

- **Abdool Karim S**. Evolving challenges in treatment implementation in resource poor countries

Biomedical Research Ethics Forum, Durban, South Africa, 11 April 2007

- **Abdool Karim S**. Ethics challenges in testing new interventions for HIV prevention and reproductive health

Centers for Disease Control and Prevention, Atlanta, United States, 1 May 2007

- **Abdool Karim S**. HIV incidence estimation for prevention trials

Royal Society of South Africa, Pietermaritzburg, South Africa, 9 May 2007

- **Abdool Karim S**. HIV/AIDS in South Africa

3rd South African AIDS Conference, Durban, South Africa, 5-8 June 2007

- **Abdool Karim S**. Progress in developing technologies for HIV prevention: HIV vaccines and microbicides
- **Abdool Karim S**. Research design 101: An update on current HIV prevention studies in South Africa
- **Abdool Karim S**. TB and HIV treatment - evolving challenges
- van Loggerenberg F, Mlisana K, Williamson C, Auld SC, Morris L, Gray C, Abdool Karim Q, Grobler A, Barnabas N, Iriogbe I, **Abdool Karim SS**, for the CAPRISA 002 Acute Infection Study Team. HIV incidence rates and challenges in establishing a cohort at high risk of HIV infection in KwaZulu-Natal, South Africa: Experiences of the CAPRISA Acute Infection Study
- Choge I, Gray ES, Moore PL, Mlisana K, **Abdool Karim SS**, Williamson C, Morris L and the CAPRISA 002 study team. Generation of functional envelope HIV-1 subtype C V1/V2 chimeras for use in pseudovirus neutralization assays

- Ranchohe N, Choge IA, Bandawe G, Abrahams M, Gray ES, Woodman Z, Mlisana K, **Abdool Karim SS**, Williamson C, Morris L, Moore PL and the CAPRISA 002 study team Cloning functional HIV-1 subtype C envelope genes from single viral RNA genomes for the investigation of neutralization escape in HIV-1 subtype C infected individuals
- Leseka N, Gray ES, Moore PL, Decker JM, Mlisana K, Shaw GM, **Abdool Karim SS**, Williamson C, Morris L and the CAPRISA 002 study team. CD4i and Anti-MPER Antibody Responses in Subtype C Acute HIV-1 Infection
- Moore PL, Gray ES, Choge IA, Decker JM, Bibollet-Ruche F, Li H, Leseka N, Treurnicht F, Mlisana K, Shaw GM, **Abdool Karim SS**, Williamson C and Morris L and the CAPRISA 002 study team Neutralizing antibody responses in acute HIV-1 subtype C infection
- Maarschalk S, Abdool Karim Q; Alsi P; Frohlich J; Werner L; **Abdool Karim S**. Impact of ARVs on positive HIV status disclosure and Anti-Retroviral treatment outcomes in patients in a rural AIDS treatment project in KwaZulu-Natal
- Wood N, Bandawe G, Mlisana K, **Abdool Karim S**, Williamson C, Seoighe C. Re-evaluating the evidence for a reduced length of the HIV-1 envelope variable loops in acute infection
- Mlotshwa M, Khoury G, van Loggerenberg F, Mlisana K, Williamson C, **Abdool Karim S**, Gray CM and the CAPRISA 002 study team. HIV specific T cell responses at the acute stage of HIV-1 subtype C infection
- Chopera DR, Woodman Z, Mlotshwa M, Hide W, Gray C, Mlisana K, **Abdool Karim S**, Williamson C. Characterisation of CTL escape mutations in gag and nef in early HIV-1 infection.
- Treurnicht FK, Wood N, Woodman ZL, Mlisana K, **Abdool Karim SS**, Seoighe C, Williamson C and the CAPRISA 002 Study Team. Genetic signatures in full-length genomes from acute infection HIV-1 subtype C from KwaZulu Natal, South Africa
- Woodman Z, Nofemele A, Grobler J, Morris L, **Abdool Karim S**, Williamson C. Investigation of the role of HIV-1 Env viral entry efficiency on transmission and disease progression in individuals infected with more than one strain of HIV-1

AIDS Vaccine conference, in Seattle, Washington, USA, 20-23 August 2007

- Moore PL, Choge IA, Gray ES, Ranchohe N, Mlisana K, **Abdool Karim SS**, Williamson C and Morris L and the CAPRISA 002 study team. Role of Anti-V1V2 Antibodies in Autologous Neutralization of Acute HIV-1 Subtype C viruses.

IAVI Board Meeting Southern Africa, 19-22 June 2007

- **Abdool Karim SS**. Overview of clinical trials of HIV/AIDS prevention in Southern Africa

Royal Society of Tropical Medicine & Hygiene Conference, London, UK, 13 September 2007

- **Abdool Karim SS**. Trials and tribulations of TB - HIV co-infection

MTN VOICE study, Community Working Group. 20 October 2007

- **Abdool Karim SS**. What is Pre-Exposure Prophylaxis? (PrEP)

HIV Advisory Board Meeting, Royal Windsor Hotel, Brussels, 27-21 October 2006

- **Abdool Karim SS**. Incidence and prevalence of HIV/AIDS

2006

AIDS Vaccine 2006, Amsterdam, 29 August – 1 September 2006

- Burke D, **Abdool Karim SS**, Russel N, Wecker M, Allen M, Tomaras G, Ferarri G, Gray C, Gilbert P, Chulay J. Safety and Immunogenicity of an Alphavirus Replicon HIV Gag Vaccine (AVX101) in Healthy HIV-uninfected Adults

International AIDS Conference, Toronto, Canada, 12– 17 August 2006

- **Abdool Karim SS**. Integrating TB and HIV programs and services: the dilemma. WHO Workshop
- Burke D, **Abdool Karim SS**, Russel N, Wecker N, Allen M, Ferarri G, Gray C, Gilbert P and Chulay J. Safety and Immunogenicity of an Alphavirus Replicon HIV Gag Vaccine (AVX101) in Healthy HIV-uninfected Adults
- Mlisana K, Williamson C, van Loggerenberg F, Iriogbe I, Auld S, Grobler A, Morris L, Gray C, **Abdool Karim SS** for the CAPRISA 002 Acute Infection Study Team. CAPRISA 002 Acute Infection Study: early clinical and laboratory parameters including CD4+ cell counts and viral load measurements in acute HIV-1 subtype C infection. [abstract number CDA0047]

- Bebell L, Passmore J, Williamson C, Mlisana K, Iriogbe I, **Abdool Karim S**. Clinical Correlations of Inflammatory Cytokines in the Female Genital Tract during Acute HIV-1 Infection. [Abstract number: MOAX0102]
- Mashego M, Abdool Karim Q, Sayana S, Carrara H, Frohlich J, Sobieszczyk M, Mlotswa M, Mbambo S, **Abdool Karim SS**. Use of a Clinical Evaluation Tool to identify early and acute HIV infection in a cohort of HIV negative women in rural South Africa. [Abstract number: CDBO140]
- Kharsany ABM, Carrara H, Ncama BP, **Abdool Karim SS**, Abdool Karim Q. Feasibility of Establishing Cohorts for Phase IIB/III HIV Prevention Trials in Sexually Transmitted Diseases (STD) Primary Care Clinics in Durban, South Africa. [Abstract number: TUPE0449]
- Wiseman RC, Padayatchi N, Carrara H, Naidoo , Singh A, Nair G, Khan M, **Abdool Karim SS**. Response to ARV therapy among patients with CD4 counts below 50 cells/mm³ in a resource-constrained setting in South Africa
- Carrara H, Abdool Karim Q, Frohlich J, Mashego M, Mlotswa M, Mbambo S, **Abdool Karim SS**. Comparing HIV incidence rates derived from modeling cross-sectional HIV prevalence data to that obtained from longitudinal studies of HIV negative persons – implications for sample size and accrual in HIV prevention efficacy trials [Abstract number: CDCO354]
- Kharsany ABM, Cele Z, Coetzee K, Carrara H, Ncama BP, **Abdool Karim SS**, Abdool Karim Q. Use of a stepwise pooling algorithm for the detection of HIV RNA for screening for Acute HIV-1 infection in a STI clinic Population in Durban, South Africa. [Abstract number: MOPE0132]
- Mlotswa M, Khoury G, van Loggerenberg F, Mlisana K, Williamson C, **Abdool Karim S**, Gray C. Breadth and Magnitude of HIV-specific T cell recognition at the acute stage of subtype C infection does not correlate with viraemia
- Mlisana K, Auld S, Iriogbe I, Sobieszczyk M, Grobler A, Williamson C, **Abdool Karim SS**, and the CAPRISA Acute HIV Infection Study Team
- Bandawe GP, Treunricht F, Woodman Z, Mlisana K, Morris L, Loggerenberg F, **Abdool Karim SS**, Williamson C for the CAPRISA 002 Acute Infection Study Team. Genetic characteristics of GP160 in acute HIV-1 subtype C infection that may impact disease progression

8th Brazilian Congress of Collective Health and 11th World Congress of Public Health- Public Health in a Globalized World: Breaking down /Political, Social and Economic Barriers in Rio de Janeiro, Brazil, 21-25 August 2006

- **Abdool Karim SS**. AIDS in Africa: impacts on health and demographic patterns. (Invited speaker)

PACT conference, Cape Town, South Africa, 3 October 2006

- **Abdool Karim SS**. The State of the HIV epidemic in South Africa. (Invited keynote speaker)

SARETI, Senegal, 11-12 October 2006

- **Abdool Karim SS**. HIV counseling and testing: demands and dilemmas for opting out. (Invited speaker)

Bio2Biz, Durban, South Africa, September 2006

- **Abdool Karim SS**. Microbicides and their role in HIV prevention. (Invited speaker)

Congressional Briefing: Capitol Hill, Washington, USA, 18 July 2006

- **Abdool Karim SS**. Microbicide Clinical Trials: Needs and Challenges. (Invited speaker)

HIV Prevention Workshop, St George's Hotel Cape Town, South Africa, 22 April 2006

- **Abdool Karim SS**. Microbicides & their role in the prevention agenda. (Invited speaker)

Office of AIDS Research Advisory Council (OARAC) Meeting, Durban South Africa, 6 April 2006

- **Abdool Karim SS**. Microbicide Clinical Trials: Current Status and Challenges. (Invited speaker)

GlaxoSmithKline HIV Advisory Board Meeting , Royal Windsor Hotel, Brussels, 25 October 2006

- **Abdool Karim SS**. HIV epidemiology relevant to HIV vaccine design & trials. (Invited speaker)

IAVI 2006 Global Team Meeting, 18 September 2006

- **Abdool Karim SS**. Engaging Innovative Developing Countries' Research Engine. (Invited speaker)

SIDA 2006, Buenos Aires, 8th September 2006

- **Abdool Karim SS.** Voluntary counseling and testing: is it time to opt out? (Invited keynote speaker)
- **Abdool Karim SS.** Microbicides for the Prevention of HIV. (Invited keynote speaker)

2005

European & Developing Countries Clinical Trials Partnership (EDCTP) Conference, 3 October 2005

- **Abdool Karim SS.** Global progress on the development of HIV vaccines and microbicides. (Invited keynote address)

2nd South African AIDS Conference Durban, South Africa 9 June 2005

- **Abdool Karim SS.** New Generation Microbicides. Invited Plenary
- Carrara H, Mashego M, Mlotswa M, Mbambo S, Frohlich J, **Abdool Karim SS**, Abdool Karim Q. Coital frequency, condom use and HIV incidence rates in a cohort of young women in rural KwaZulu Natal: the need for additional HIV prevention strategies.
- van Loggerenberg F, Mlisana K, Grobler A, **Abdool Karim SS.** Self-reported anal sex: Perceptions of risk and preferences for practise in a cohort of female sex workers.
- Barkhan D, Paximadis M, Mathebula T, Mohube P, Makgotho P, Mashiloane M, Cutler E, Magooa P, Puren A, van Loggerenberg F, Mlisana K, Williamson C, **Abdool Karim S**, Gray CM. Associations between Class I HLA types and disease status in individuals from southern Africa infected with HIV-1 subtype C
- Iriogbe I, Dube T, Grobler A, Cheune J, Khan M, Burst J, Edward D, Nadioo K, **Abdool Karim SS.** The role of a Non-governmental organization (NGO) in an HIV-1 endemic region.

3rd IAS Conference on HIV Pathogenesis and Treatment, Rio de Janeiro, 24-25 July 2005

- **Abdool Karim SS.** Impact of antiretroviral therapy on HIV prevention. (Invited plenary address)
- Williamson C, Grobler J, Seoighe C, Ramjee G, Morris L, **Abdool Karim SS.** Lower rates of adaptive evolution in HIV-1 dual infections compared to single infections

Presidents Emergency Plan for AIDS Relief (PEPFAR) Planning Meeting, Pretoria, South Africa, 4 May 2005

- **Abdool Karim SS.** PEPFAR-funded CAPRISA AIDS Treatment (CAT) Programme

2004

National Institutes of Health, Washington, USA, 26 March 2004

- **Abdool Karim SS.** AIDS Research in South Africa: Trials and Tribulations (Invited talk)

2nd International Workshop on Acute HIV-1 Infection, Bethesda, Washington, USA, 3-4 May 2004

- **Abdool Karim SS.** Acute HIV infection in high prevalence settings: Opportunities and constraints (Invited talk)

Clinical Conference, Nelson R Mandela School of Medicine, Durban, South Africa, 12 May 2004

- **Abdool Karim SS.** Impact of HAART on HIV prevention and mortality – implications for the ART rollout programme (Invited talk)

Aurum Health Research - VTN visit, Orkney, South Africa, 18 May 2004

- **Abdool Karim SS.** The role of HIV vaccines in fighting the HIV epidemic (Invited talk)

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- **Abdool Karim SS.** Health and Human Rights in South Africa.

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1987:

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Department:
Health
REPUBLIC OF SOUTH AFRICA



Enquiries: Prof S Abdool Karim
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INTERNAL MEMO

Date:	11 December 2020		
To:	The Honorable Dr ZL Mkhize, Minister of Health	From:	Ministerial Advisory Committee (MAC) on Covid-19

RECOMMENDATIONS ON DECEMBER PERIOD PROPOSAL

Proposal from the National Department of Health

The National Department of Health (NDoH) as requested guidance on their proposal for the Decemer period. The proposal is outlined below:

It is recommend that as from 21 December 2020 to 08 January 2020 nationally:

1. Gatherings

- (1.1) Restrictions on gatherings (religious and sporting events): maximum of 100 people indoors and 250 outdoors – including religious gatherings.
- (1.2) After Funeral Parties or any gathering relating to the deceased that has occurred after the deceased has been buried or cremated-are prohibited.

2. Movement of Persons

- (2.1) Curfew 22H00-04H00.
- (2.2) Commercial/non-essential (including restaurants and bars) establishments to be closed at 21H00 to allow for sufficient time for transit home before enforcement of the curfew.

3. Alcohol Sales and Consumption

- (3.1) Alcohol sales restricted to Monday-Thursday 10H00-18H00.
- (3.2) On-site consumption of alcohol up until 21H00.
- (3.3) No consumption of alcohol in public spaces (including parks and beaches).
- (3.4) Registered wineries and wine farms may continue to offer tasting of wines and sale of wine to the public for consumption off site.

4. Controlled access to public entertainment areas (recreational/municipal parks and beaches)

- (4.1) All beaches and recreational parks to close between **21 December 2020 to 08 January 2020**.
- (4.2) On the other dates, municipalities need to manage the numbers on the beaches and recreational parks to avoid overcrowding.
- (4.3) Shopping malls and other privately owned venues must define the maximum number of persons permitted to achieve social distancing. If the maximum number is exceeded the owner of the establishment will be liable to a fine.

5. Publication of hotspots

- (5.1) All municipalities must publish on their websites and local media, areas considered to be hotspots in their municipalities.

Recommendations

The following considerations were made by the MAC on Covid-19:

1. Gatherings:

- The festive season generally starts from 16 December, and thus proposed that consideration that this period be defined as 16 December 2020 to 8 January 2021.
- (1.1) Maximum capacity will be an important consideration. It is proposed that point 1.1 be amended as follows: Restrictions on gatherings (including but not limited to religious and sporting events): maximum 50% of maximum capacity, to a maximum of 50 people indoors and 250 outdoors.
- One option for consideration is that larger gatherings (ie. >50 indoors or >250 outdoors) can apply for local government approval and thereby be registered with the police services for appropriate management.

2. Movement of persons

- (2.2) It was proposed that emphasis on NPIs in restaurants/bars/shebeens particularly social distancing and masks (nose and mouth) for staff and clients will be important. Consideration should be given to limiting the number of people in restaurants/bars/shebeens to 50% of their capacity.

3. Alcohol sales and consumption

- Need to emphasize that sale rules apply to shebeens (Eastern Cape previously made an agreement for off site sale of alcohol by shebeens on weekends which is causing problems). Proposed to include as point 3.5

4. Controlled access to public entertainment areas

Three different views were expressed by MAC members, with no consensus for (4.1). It was suggested that the current 4.1 be considered to be replaced by one of following options, noting that there is no right or wrong view, just a matter of perspective:

1. **Close all beaches for duration of the holiday period starting from the date of the anticipated first mass beach attendance to last mass beach attendance (e.g. 16 December to 3 January).**

Rationale:

- The scientific rationale for keeping indoor and outdoor mass gatherings small to reduce risk of transmission applies to beaches too. However, it is difficult to control the numbers expected, particularly at certain beaches, which could lead to overcrowding and increase risk of transmission.
- It will be almost impossible to cap the beach attendance at 250 (as for outdoor gatherings). If over-crowding in the tens of thousands of people is allowed on the beach, the clear consistent message on mass gatherings may be lost.
- It is expected that mask wearing and social distancing will not take place, because this is difficult to do on the beach and will be hard to enforce.
- We are now in the second wave with cases doubling by the day. As a result, there is a high likelihood that there will be infected individuals within the crowd. Spending long period in the midst of infectious individuals under crowded conditions with no masks, even if it is in the open, carries a high risk warranting drastic measures.
- Hospitals in areas of the Eastern Cape and KwaZulu-Natal are already quite full, and there will not be capacity to manage extra burden of more potential patients.

2. **Close beaches only on certain dates where large crowds are anticipated (16, 24, 25, 26, 31 December 2020, 1 January 2021) with or without the additional option to open the beaches for a few hours only (eg. From 4am to noon) on the remaining days from 16 December to 3 January.**

Rationale:

- It is expected that particular days around Christmas and New Year's. As seen in previous years, overcrowding at the beaches on these days can be expected.
- On these days, many people are bused and taxied to beach areas which could contribute to SARS-CoV-2 spread.
- Instead of closing beaches for the entire holiday period, a compromise of only closing on those expected days could be made.
- Closing the beaches completely may lose the public's support. Focusing on targeted days may reduce this problem.

3. Since beach over-crowding over the holidays may not be a problem at every beach, to allow Municipalities to decide and manage specific beach closures (place and dates) as necessary.

Rationale:

- A one-size fits all approach may be inappropriate as some beaches may not have an over-crowding problem. Hence, each municipality should undertake an assessment of the risk and make decisions on each beach.
- Public support will be lost with the closing of all beaches.
- The scientific rationale applied to indoor and outdoor mass gatherings may not be directly applicable to beaches and parks. Outdoor activities with masking and social distancing should be allowed. Hence, beaches that can ensure beach attendance with social distancing and masks should be allowed to open. This could help reinforce the message that it is more important to ensure appropriate behavior through the use of NPIs.
- Will be important to reinforce the laws around the consumption of alcohol in public.
- Not all beaches are equal in terms of expected numbers. Certain beaches, e.g. Durban beachfronts, are expected to have overcrowding, however this may not be the case for all beaches and parks.
- Closing all beaches will have a negative impact on the economy, as those that have booked a holiday at the coast may no longer consider doing this.
- Generally, the closing of beaches may be hard to enforce particularly on specific days with large crowds.
- If beaches/park are closed, there may be increased crowding in other indoor areas such as malls.

- (4.2) Hard to enforce and manage.

5. Publication of hotspots

- No changes.

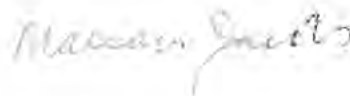
Thank you for consideration of this request.

Kind regards,



PROFESSOR SALIM S. ABDOOL KARIM
CO-CHAIRPERSONS: MINISTERIAL ADVISORY COMMITTEE ON COVID-19

DATE: 11 December 2020



PROF MARIAN JACOBS

CC:

- » Dr S Buthelezi (Director-General: Health)
- » Dr T Pillay (Deputy Director-General)
- » Incident Management Team



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Mar 28, 2020, 06:00am ED | 13,051 views

States Are Being Forced Into Bidding Wars To Get Medical Equipment To Combat Coronavirus



Clary Estes Former Contributor  

Healthcare



White House Trade and Manufacturing Policy adviser Peter Navarro (R) speaks alongside US President ... [] AFP V A GETTY IMAGES

It is no secret that medical supplies needed to combat the Coronavirus (COVID-19) are in critically short supply everywhere. “Every state is vying for the resources.” Said Rhode Island Governor, Gina Raimondo. “Frankly, every country. Most countries are vying for the same resources, so it's a challenge.” However, the Trump administration had been tentative to invoke his powers under the Defense Production Act,

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which allows him almost unilateral authority to mobilise private industry to product goods in the public interest. It was not until March 27th that Trump ordered General Motors to start producing ventilators under the act despite the fact that “General Motors and Ventec Life Systems on Friday reiterated their plans to make desperately needed ventilators at a GM plant in Indiana.” 010-383

Before his order, Trump highlighted his frustration with GM industry in a tweet saying, “As usual with ‘this’ General Motors, things just never seem to work out. They said they were going to give us 40,000 much needed Ventilators, ‘very quickly’. Now they are saying it will only be 6000, in late April, and they want top dollar. Always a mess with Mary B. Invoke ‘P’.” The last sentence being a reference to invoking the Defense Production Act.



New York Governor Andrew Cuomo speaks to the press at the Jacob K. Javits Convention Center in New ...

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The effects of this situation have found states in bidding wars amongst each other and the federal government to get critical medical supplies. New York Governor, Andrew Cuomo, has been an outspoken critic of the situation saying, “This is not the way to do it, this is ad hoc, I’m competing with other states, I’m bidding up other states on the prices.”

His frustration is understandable as New York City has become the epicenter of COVID-19 cases in the US, if not the world, and the city has already seen 38,977 COVID-19 cases (as of March 27th) since the crisis started. President Trump stated that he did not believe New York City hospitals really needed “40,000 to 30,000 ventilators,” later going on to say, “It’s a two-way street. They

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have to treat us well also. They can't say, 'Oh gee, we should get this, we should get that.' We're doing a great job." 010-384

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Similarly, Kentucky Governor, Andy Beshear, admitted that his state lost out to the Federal Emergency Management Agency when bidding to get protective equipment saying, "It is a challenge. The federal government says 'states, you need to go find your supply chain' and then the federal government ends up buying from that supply chain."

Detroit Mayor, Mike Duggan, has also been frustrated with the bidding wars saying, "I shouldn't be trying to out-negotiate the Mayor of Chicago or the Mayor of Houston. There needs to be a federal response."

As the bidding wars between states drive the prices of medical equipment ever upward, it is hard to not see the entire situation as a form of federal and private industry price gouging in a time when cooperation is paramount.

The effects of these bidding wars are damaging to all parties involved, but they leave poorer rural states without options when they are forced to compete with the federal government and states that have more financial resources. As Oregon Governor Kate Brown's press secretary, Charles Boyle explains, "Both in our requests for personal protective equipment from the national stockpile and our conversations with private suppliers, we find ourselves competing with larger states with more immediate needs due to the size and scope of their COVID-19

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outbreaks: New York, California, Washington, and others."

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Beshear has been dogged in his search for medical equipment. "I am willing to pay whatever it takes to protect the people of Kentucky to the maximum extent that we can," Beshear said. "At the moment, folks — and some will take this the wrong way — I'm not concerned about money, I'm concerned about lives and we're going to do everything we can to protect them." As of March 26th, Beshear has said that the state of Kentucky has spent about 8 million dollars on COVID-19 response.



FILE - In this March 13, 2020 file photo, Kentucky Gov. Andy Beshear discusses developments in ... [] ASSOCIATED PRESS

"Yes, it would be better if we were living at a time when we weren't competing with other states and, in fact, the federal government who often buys it out from under us," said Beshear, "but that's our reality on the ground."

The effects of these bidding wars across the board find state healthcare and hospital systems receiving less resources at a higher cost at a much delayed pace. Frankly, it is shocking that in the midst of the worst health crisis that the United States has seen in decades that states are being reduced to bidding wars with each other and the federal government.

Additionally, these bidding wars do nothing to help shore up the already shuttered economic situation in the US. As many manufacturers have been forced to shut down production, further driving up unemployment numbers, it would surely help support the economy if these workers and companies could both safely get back to work, as well as contribute to the COVID-19 crisis in a way that would undoubtedly speed up healthcare response, help save lives, and finally put an end to the pandemic.

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Hopefully, with the Trump administration's order for General Motors to start producing ventilators is a sign of things to come and there will be further orders for manufacturers to start making medical supplies that will fill the national supply chain and ease the pressure on states and healthcare systems.

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