



# CELEBRATES SCIENCE



# SEPTEMBER 2017

# TOP 5 ARTICLES

**Director: Prof Lynette Denny**



## THE LANCET

"The nine-valent human papillomavirus vaccine could potentially provide broader coverage and prevent 90% of cervical cancer cases worldwide."



### Article:

**Denny L.** Nine-valent human papillomavirus vaccine: Great science, but will it save lives? *Lancet*. 2017 Sep 05.

DOI: 10.1016/s0140-6736(17)32144-x

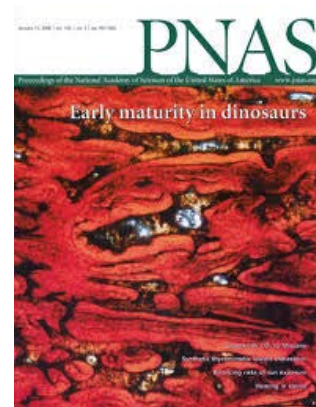
**Impact Factor: 47.831**

### Summary:

In *The Lancet*, Warner K Huh and colleagues<sup>1</sup> report their final analysis of a randomised, double-blind trial of 14 215 women, aged 16–26 years, testing the quadrivalent human papillomavirus (qHPV; HPV types 6, 11, 16, and 18) vaccine compared with the nine-valent HPV (9vHPV; HPV types 6, 11, 16, 18, 31, 33, 45, 52, and 58) vaccine. The women were recruited from 105 study sites located in 18 countries and received vaccination on day 1 and months 2 and 6. The 9vHPV vaccine consists of virus-like particles of HPV 6, 11, 16, and 18 (as found in the qHPV vaccine) and an additional five types, HPV 31, 33, 45, 52, and 58, combined with the adjuvant amorphous aluminium hydroxyphosphate sulphate.

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**Director: Prof Frank Brombacher**



**Article:**

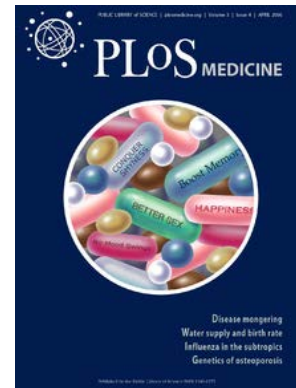
**Hurdayal R, Ndlovu HH, Revaz-Breton M, Parihar SP, Nono JK, Govender M, Brombacher F.** IL-4-producing B cells regulate T helper cell dichotomy in type 1- and type 2-controlled diseases. *Proceedings of the National Academy of Sciences of the United States of America.* 2017 Sep 15.  
DOI: 10.1073/pnas.1708125114  
**Impact Factor: 9.661**

**Summary:**

Interleukin-4 (IL-4)-induced T helper (Th) 2 cells promote susceptibility to the protozoan parasite *Leishmania major*, while conferring immunity to the intestinal trematode *Schistosoma mansoni*. Here, we report that abrogation of IL-4 receptor alpha (IL-4R $\alpha$ ) signaling on B cells in BALB/c mice (mb1creIL-4R $\alpha$ -/lox) transformed nonhealer BALB/c to a healer phenotype with an early type 1 and dramatically reduced type 2 immune response and an absence of ulceration and necrosis during cutaneous leishmaniasis. From adoptive reconstitution and mixed bone-marrow chimera studies in B cell-deficient ( $\mu$ MT) mice, we reveal a central role for B cell-derived IL-4 and IL-4R $\alpha$  in the optimal induction of the susceptible type 2 phenotype to *L. major* infection. We further demonstrate that the absence of IL-4R $\alpha$  signaling on B cells exacerbated *S. mansoni*-induced mortality and pathology in BALB/c mice, due to a diminished type 2 immune response. In both disease models, IL-4R $\alpha$ -responsive B cells displayed increased IL-4 production as early as day 1 after infection. Together, these results demonstrate that IL-4-producing and IL-4R $\alpha$ -responsive B cells are critical in regulating and assisting early T helper dichotomy toward Th2 responses, which are detrimental in cutaneous leishmaniasis but beneficial in acute schistosomiasis.

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**Director: Prof Rachel Jewkes**



**Article:**

**Jewkes R**, Fulu E, Tabassam Naved R, **Chirwa E**, **Dunkle K**, Haardorfer R, Garcia-Moreno C. Women's and men's reports of past-year prevalence of intimate partner violence and rape and women's risk factors for intimate partner violence: A multicountry cross-sectional study in Asia and the Pacific. *PLoS Medicine*. 2017 Sep 05;14(9):e1002381.

DOI: 10.1371/journal.pmed.1002381

**Impact Factor: 8.389**

**Summary:**

**Background:** Understanding the past-year prevalence of male-perpetrated Intimate Partner Violence (IPV) and risk factors is essential for building evidence-based prevention and monitoring progress to Sustainable Development Goal (SDG) 5.2, but so far, population-based research on this remains very limited. The objective of this study is to compare the population prevalence rates of past-year male-perpetrated IPV and non-partner rape from women's and men's reports across 4 countries in Asia and the Pacific. A further objective is to describe the risk factors associated with women's experience of past-year physical or sexual IPV from women's reports and factors driving women's past-year experience of partner violence.

**Methods and Findings:** This paper presents findings from the United Nations Multi-country Study on Men and Violence in Asia and the Pacific. In the course of this study, in population-based cross-sectional surveys, 5,206 men and 3,106 women aged 18-49 years were interviewed from 4 countries: Cambodia, China, Papua New Guinea (PNG), and Sri Lanka. To measure risk factors, we use logistic regression and structural equation modelling to show pathways and mediators. The analysis was not based on a written plan, and following a reviewer's comments, some material was moved to supplementary files and the regression was performed without variable elimination. Men reported more lifetime perpetration of IPV (physical or sexual IPV range 32.5%-80%) than women did experience (physical or sexual IPV range 27.5%-67.4%), but women's reports of past-year experience (physical or sexual IPV range 8.2%-32.1%) were not very clearly different from men's (physical or sexual IPV range 10.1%-34.0%). Women reported much more emotional/economic abuse (past-year ranges 1.4%-5.7% for men and 4.1%-27.7% for women). Reports of non-partner rape were similar for men (range 0.8%-1.9% in the past year) and women (range 0.4%-2.3% in past year), except in Bougainville, where they were higher for men (11.7% versus 5.7%). The risk factor modelling shows 4 groups of variables to be important in experience of past-year sexual and/or physical IPV: (1) poverty, (2) all childhood trauma, (3) quarrelling and women's limited control in relationships, and (4) partner factors (substance abuse, unemployment, and infidelity). The population attributable fraction (PAF) was largest for quarrelling often, but the second greatest PAF

was for the group related to exposure to violence in childhood. The relationship control variable group had the third highest PAF, followed by other partner factors. Currently married women were also more at risk. In the structural model, a resilience pathway showed less poverty, higher education, and more gender-equitable ideas were connected and conveyed protection from IPV. These are all amenable risk factors. This research was cross-sectional, so we cannot be sure of the temporal sequence of exposure, but the outcome being a past-year measure to some extent mitigates this problem.

**Conclusions:** Past-year IPV indicators based on women's reported experience that were developed to track SDG 5 are probably reasonably reliable but will not always give the same prevalence as may be reported by men. Report validity requires further research. Interviews with men to track past-year non-partner rape perpetration are feasible and important. The findings suggest a range of factors are associated with past-year physical and/or sexual IPV exposure; of particular interest is the resilience pathway suggested by the structural model, which is highly amenable to intervention and explains why combining economic empowerment of women and gender empowerment/relationship skills training has been successful. This study provides additional rationale for scaling up violence prevention interventions that combine economic and gender empowerment/relationship skills building of women, as well as the value of investing in girls' education with a view to long-term violence reduction.

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**Director: Prof Angela Mathee**



**Article:**

**Nkomo P, Mathee A, Naicker N, Galpin J, Richter LM, Norris SA.** The association between elevated blood lead levels and violent behavior during late adolescence: The South African Birth to Twenty Plus cohort. *Environment International*. 2017 Sep 12.

DOI: 10.1016/j.envint.2017.09.004

**Impact Factor: 7.088**

**Summary**

Epidemiological studies have shown the adverse neuro-behavioral health effects of lead exposure among children, in particular. However, there is lack evidence in this regard from developing countries. The main aim of this study was to assess the association between Blood Lead Levels (BLLs) during early adolescence and violent behavior in late adolescence. Our study sample from the Birth to Twenty Plus cohort in Soweto-Johannesburg, South Africa included 1332 study participants (684 females). BLLs were measured using blood samples collected at age 13years. Violent behavior was evaluated using data collected at ages 15 to 16years using the Youth Self Report questionnaire. First, bivariate analysis was used to examine data for an association between lead exposure in early adolescence and violent behavior items during late adolescence. Principal Component Analysis (PCA) was used for dimensionality reduction and six violent behavior components were derived. Data were further analyzed for an association between BLLs at age 13years and violent behavior using PCA derived components; to determine the specific type(s) of violent behavior associated with lead exposure. Median whole BLLs were 5.6µg/dL ( $p<0.001$ ). Seventy five percent of males and 50% of females had  $BLLs \geq 5\mu\text{g/dL}$ . BLLs ranging from 5 to 9.99µg/dL were associated with physical violence ( $p=0.03$ ) and  $BLLs \geq 10\mu\text{g/dL}$  were associated physical violence and fighting ( $p=0.02$  and  $p=0.01$ , respectively). When data were analyzed using continuous BLLs physical violence was associated with lead exposure ( $p<0.0001$ ). Furthermore, males were more likely to be involved in violence using a weapon ( $p=0.01$ ), physical violence ( $p<0.0001$ ), and robbing others ( $p<0.05$ ) compared to females. The results from this study show the severe nature of violent behavior in late adolescence associated with childhood lead exposure. They highlight the urgent need for preventive measures against lead exposure among children in low or middle-income countries such as South Africa.

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**Director: Prof Charles Wiysonge**



#### **Article:**

**Wiysonge CS, Paulsen E, Lewin S, Ciapponi A, Herrera CA, Opiyo N, Pantoja T, Rada G, Oxman AD.** Financial arrangements for health systems in low-income countries: An overview of systematic reviews. *Cochrane Database of Systematic Reviews*. 2017 Sep 11;9:CD011084. DOI: 10.1002/14651858.CD011084.pub2

**Impact Factor: 6.264**

#### **Summary**

**Background:** One target of the Sustainable Development Goals is to achieve "universal health coverage, including financial risk protection, access to quality essential health-care services and access to safe, effective, quality and affordable essential medicines and vaccines for all". A fundamental concern of governments in striving for this goal is how to finance such a health system. This concern is very relevant for low-income countries.

**Objectives:** To provide an overview of the evidence from up-to-date systematic reviews about the effects of financial arrangements for health systems in low-income countries. Secondary objectives include identifying needs and priorities for future evaluations and systematic reviews on financial arrangements, and informing refinements in the framework for financial arrangements presented in the overview.

**Methods:** We searched Health Systems Evidence in November 2010 and PDQ-Evidence up to 17 December 2016 for systematic reviews. We did not apply any date, language, or publication status limitations in the searches. We included well-conducted systematic reviews of studies that assessed the effects of financial arrangements on patient outcomes (health and health behaviours), the quality or utilisation of healthcare services, resource use, healthcare provider outcomes (such as sick leave), or social outcomes (such as poverty, employment, or financial burden of patients, e.g. out-of-pocket payment, catastrophic disease expenditure) and that were published after April 2005. We excluded reviews with limitations important enough to compromise the reliability of the findings. Two overview authors independently screened reviews, extracted data, and assessed the certainty of evidence using GRADE. We prepared SUPPORT Summaries for eligible reviews, including key messages, 'Summary of findings' tables (using GRADE to assess the certainty of the evidence), and assessments of the relevance of findings to low-income countries.

**Main Results:** We identified 7272 reviews and included 15 in this overview, on: collection of funds (2 reviews), insurance schemes (1 review), purchasing of services (1 review), recipient incentives (6 reviews), and provider incentives (5 reviews). The reviews were published between 2008 and 2015; focused on 13 subcategories; and reported results from 276 studies: 115 (42%) randomised trials, 11 (4%) non-randomised trials, 23 (8%) controlled before-after studies, 51 (19%) interrupted time series, 9 (3%) repeated measures, and 67 (24%) other non-randomised studies. Forty-three per

cent (119/276) of the studies included in the reviews took place in low- and middle-income countries. Collection of funds: the effects of changes in user fees on utilisation and equity are uncertain (very low-certainty evidence). It is also uncertain whether aid delivered under the Paris Principles (ownership, alignment, harmonisation, managing for results, and mutual accountability) improves health outcomes compared to aid delivered without conforming to those principles (very low-certainty evidence). Insurance schemes: community-based health insurance may increase service utilisation (low-certainty evidence), but the effects on health outcomes are uncertain (very low-certainty evidence). It is uncertain whether social health insurance improves utilisation of health services or health outcomes (very low-certainty evidence). Purchasing of services: it is uncertain whether increasing salaries of public sector healthcare workers improves the quantity or quality of their work (very low-certainty evidence). Recipient incentives: recipient incentives may improve adherence to long-term treatments (low-certainty evidence), but it is uncertain whether they improve patient outcomes. One-time recipient incentives probably improve patient return for start or continuation of treatment (moderate-certainty evidence) and may improve return for tuberculosis test readings (low-certainty evidence). However, incentives may not improve completion of tuberculosis prophylaxis, and it is uncertain whether they improve completion of treatment for active tuberculosis. Conditional cash transfer programmes probably lead to an increase in service utilisation (moderate-certainty evidence), but their effects on health outcomes are uncertain. Vouchers may improve health service utilisation (low-certainty evidence), but the effects on health outcomes are uncertain (very low-certainty evidence). Introducing a restrictive cap may decrease use of medicines for symptomatic conditions and overall use of medicines, may decrease insurers' expenditures on medicines (low-certainty evidence), and has uncertain effects on emergency department use, hospitalisations, and use of outpatient care (very low-certainty evidence). Reference pricing, maximum pricing, and index pricing for drugs have mixed effects on drug expenditures by patients and insurers as well as the use of brand and generic drugs. Provider incentives: the effects of provider incentives are uncertain (very low-certainty evidence), including: the effects of provider incentives on the quality of care provided by primary care physicians or outpatient referrals from primary to secondary care, incentives for recruiting and retaining health professionals to serve in remote areas, and the effects of pay-for-performance on provider performance, the utilisation of services, patient outcomes, or resource use in low-income countries.

**Authors' Conclusions:** Research based on sound systematic review methods has evaluated numerous financial arrangements relevant to low-income countries, targeting different levels of the health systems and assessing diverse outcomes. However, included reviews rarely reported social outcomes, resource use, equity impacts, or undesirable effects. We also identified gaps in primary research because of uncertainty about applicability of the evidence to low-income countries. Financial arrangements for which the effects are uncertain include external funding (aid), caps and co-payments, pay-for-performance, and provider incentives. Further studies evaluating the effects of these arrangements are needed in low-income countries. Systematic reviews should include all outcomes that are relevant to decision-makers and to people affected by changes in financial arrangements.

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**Director: Prof Charles Wiysonge**



#### Article:

**Wiysonge CS**, Ntsekhe M, Thabane L, Volmink J, Majombozi D, Gumedze F, Pandie S, **Mayosi BM**. Interventions for treating tuberculous pericarditis. *Cochrane Database of Systematic Review*. 2017 Sep 13;9:CD000526.

DOI: 10.1002/14651858.CD000526.pub2

**Impact Factor: 6.264**

#### Summary

**Background:** Tuberculous pericarditis can impair the heart's function and cause death; long term, it can cause the membrane to fibrose and constrict causing heart failure. In addition to antituberculous chemotherapy, treatments include corticosteroids, drainage, and surgery.

**Objectives:** To assess the effects of treatments for tuberculous pericarditis.

**Search Methods:** We searched the Cochrane Infectious Diseases Group Specialized Register (27 March 2017); the Cochrane Central Register of Controlled Trials (CENTRAL), published in the Cochrane Library (2017, Issue 2); MEDLINE (1966 to 27 March 2017); Embase (1974 to 27 March 2017); and LILACS (1982 to 27 March 2017). In addition we searched the metaRegister of Controlled Trials (mRCT) and the World Health Organization (WHO) International Clinical Trials Registry Platform (ICTRP) search portal using 'tuberculosis' and 'pericard\*' as search terms on 27 March 2017. We searched ClinicalTrials.gov and contacted researchers in the field of tuberculous pericarditis. This is a new version of the original 2002 review.

**Selection Criteria:** We included randomized controlled trials (RCTs) and quasi-RCTs.

**Data Collection and Analysis:** Two review authors independently screened search outputs, evaluated study eligibility, assessed risk of bias, and extracted data; and we resolved any discrepancies by discussion and consensus. One trial assessed the effects of both corticosteroid and *Mycobacterium indicus pranii* treatment in a two-by-two factorial design; we excluded data from the group that received both interventions. We conducted fixed-effect meta-analysis and assessed the certainty of the evidence using the GRADE approach.

**Main Results:** Seven trials met the inclusion criteria; all were from sub-Saharan Africa and included 1959 participants, with 1051/1959 (54%) HIV-positive. All trials evaluated corticosteroids and one each evaluated colchicine, *M. indicus pranii* immunotherapy, and open surgical drainage. Four trials (1841 participants) were at low risk of bias, and three trials (118 participants) were at high risk of bias. In people who are not infected with HIV, corticosteroids may reduce deaths from all causes (risk ratio (RR) 0.80, 95% confidence interval (CI) 0.59 to 1.09; 660 participants, 4 trials, low certainty evidence) and the need for repeat pericardiocentesis (RR 0.85, 95% CI 0.70 to 1.04; 492

participants, 2 trials, low certainty evidence). Corticosteroids probably reduce deaths from pericarditis (RR 0.39, 95% CI 0.19 to 0.80; 660 participants, 4 trials, moderate certainty evidence). However, we do not know whether or not corticosteroids have an effect on constriction or cancer among HIV-negative people (very low certainty evidence). In people living with HIV, only 19.9% (203/1959) were on antiretroviral drugs. Corticosteroids may reduce constriction (RR 0.55, 0.26 to 1.16; 575 participants, 3 trials, low certainty evidence). It is uncertain whether corticosteroids have an effect on all-cause death or cancer (very low certainty evidence); and may have little or no effect on repeat pericardiocentesis (RR 1.02, 0.89 to 1.18; 517 participants, 2 trials, low certainty evidence). For colchicine among people living with HIV, we found one small trial (33 participants) which had insufficient data to make any conclusions about any effects on death or constrictive pericarditis. Irrespective of HIV status, due to very low certainty evidence from one trial, it is uncertain whether adding *M. indicus pranii* immunotherapy to antituberculous drugs has an effect on any outcome. Open surgical drainage for effusion may reduce repeat pericardiocentesis in HIV-negative people (RR 0.23, 95% CI 0.07 to 0.76; 122 participants, 1 trial, low certainty evidence) but may make little or no difference to other outcomes. We did not find an eligible trial that assessed the effects of open surgical drainage in people living with HIV. The review authors found no eligible trials that examined the length of antituberculous treatment needed nor the effects of other adjunctive treatments for tuberculous pericarditis.

**Authors' Conclusions:** For HIV-negative patients, corticosteroids may reduce death. For HIV-positive patients not on antiretroviral drugs, corticosteroids may reduce constriction. For HIV-positive patients with good antiretroviral drug viral suppression, clinicians may consider the results from HIV-negative patients more relevant. Further research may help evaluate percutaneous drainage of the pericardium under local anaesthesia, the timing of pericardiectomy in tuberculous constrictive pericarditis, and new antibiotic regimens.

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**Director: Prof Charles Wiysonge**



#### **Article:**

**Wiysonge CS, Ndze VN, Kongnyuy EJ, Shey MS.** Vitamin A supplements for reducing Mother-To-Child HIV transmission. *Cochrane Database of Systematic Reviews*. 2017 Sep 7;9:CD003648.

DOI: 10.1002/14651858.CD003648.pub4

**Impact Factor: 6.264**

#### **Summary**

**Background:** Strategies to reduce the risk of mother-to-child transmission of the Human Immunodeficiency Virus (HIV) include lifelong Antiretroviral Therapy (ART) for HIV-positive women, exclusive breastfeeding from birth for six weeks plus nevirapine or replacement feeding plus nevirapine from birth for four to six weeks, elective Caesarean section delivery, and avoiding giving children chewed food. In some settings, these interventions may not be practical, feasible, or affordable. Simple, inexpensive, and effective interventions (that could potentially be implemented even in the absence of prenatal HIV testing programmes) would be valuable. Vitamin A, which plays a role in immune function, is one low-cost intervention that has been suggested in such settings.

**Objectives:** To summarize the effects of giving vitamin A supplements to HIV-positive women during pregnancy and after delivery.

**Search Methods:** We searched the Cochrane Central Register of Controlled Trials (CENTRAL), PubMed, Embase, and the World Health Organization International Clinical Trials Registry Platform (WHO ICTRP) up to 25 August 2017, and checked the reference lists of relevant articles for eligible studies.

**Selection Criteria:** We included randomized controlled trials conducted in any setting that compared vitamin A supplements to placebo or no intervention among HIV-positive women during pregnancy or after delivery, or both.

**Data Collection and Analysis:** At least two review authors independently assessed study eligibility and extracted data. We expressed study results as Risk Ratios (RR) or Mean Differences (MD) as appropriate, with their 95% Confidence Intervals (CI), and conducted random-effects meta-analyses. This is an update of a review last published in 2011.

**Main Results:** Five trials met the inclusion criteria. These were conducted in Malawi, South Africa, Tanzania, and Zimbabwe between 1995 and 2005 and none of the participants received ART. Women allocated to intervention arms received vitamin A supplements at a variety of doses (daily during pregnancy; a single dose immediately after delivery, or daily doses during pregnancy plus a single dose after delivery). Women allocated to comparison arms received identical placebo (6601

women, 4 trials) or no intervention (697 women, 1 trial). Four trials (with 6995 women) had low risk of bias and one trial (with 303 women) had high risk of attrition bias. The trials show that giving vitamin A supplements to HIV-positive women during pregnancy, the immediate postpartum period, or both, probably has little or no effect on mother-to-child transmission of HIV (RR 1.07, 95% CI 0.91 to 1.26; 4428 women, 5 trials, moderate certainty evidence) and may have little or no effect on child death by two years of age (RR 1.06, 95% CI 0.92 to 1.22; 3883 women, 3 trials, low certainty evidence). However, giving vitamin A supplements during pregnancy may increase the mean birthweight (MD 34.12 g, 95% CI -12.79 to 81.02; 2181 women, 3 trials, low certainty evidence) and probably reduces the incidence of low birthweight (RR 0.78, 95% CI 0.63 to 0.97; 1819 women, 3 trials, moderate certainty evidence); but we do not know whether vitamin A supplements affect the risk of preterm delivery (1577 women, 2 trials), stillbirth (2335 women, 3 trials), or maternal death (1267 women, 2 trials).

**Authors' Conclusions:** Antepartum or postpartum vitamin A supplementation, or both, probably has little or no effect on Mother-To-Child transmission of HIV in women living with HIV infection and not on antiretroviral drugs. The intervention has largely been superseded by ART which is widely available and effective in preventing vertical transmission.

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## 1. INTRAMURAL RESEARCH UNITS

### Alcohol, Tobacco and Other Drug

1. **Carney T, Myers B**, Kline TL, **Johnson K**, Wechsberg WM. Aggressive behaviour among drug-using women from Cape Town, South Africa: Ethnicity, heavy alcohol use, methamphetamine and intimate partner violence. *BMC Women's Health*. 2017 Sep 30;17(1):93.  
DOI: 10.1186/s12905-017-0447-2  
**Impact Factor: 1.572**
2. Magidson JF, Lee JS, **Johnson K**, Burnhams W, Koch JR, Manderscheid R, **Myers B**. Openness to adopting evidence-based practice in public substance use treatment in South Africa using task shifting: Caseload size matters. *Substance Abuse*. 2017 Sep 21:1-5.  
DOI: 10.1080/08897077.2017.1380743  
**Impact Factor: 2.655**
3. **Parry CDH**, Tomlinson M, Bryant K, Rotherham-Borus MJ. Fresh perspectives on the alcohol and HIV nexus: A call for action in an era of increased opportunities and challenges. *AIDS and Behavior*. 2017 Sep 27.  
DOI: 10.1007/s10461-017-1917-0  
**Impact Factor: 2.916**

### Biomedical Research and Innovation Platform

1. **Jack BU**, Malherbe CJ, Willenburg EL, de Beer D, **Huisamen B**, Joubert E, **Muller CJF**, **Louw J**, **Pheiffer C**. Polyphenol-enriched fractions of cyclopia intermedia selectively affect lipogenesis and lipolysis in 3t3-11 adipocytes. *Planta Medica*. 2017 Sep 22.  
DOI: 10.1055/s-0043-119463  
**Impact Factor: 2.342**
2. **Johnson R**, **Shabalala S**, **Louw J**, Kappo AP, **Muller CJF**. Aspalathin reverts doxorubicin-induced cardiotoxicity through increased autophagy and decreased expression of p53/mTOR/p62 signaling. *Molecules*. 2017 Sep 22.  
DOI: 10.3390/molecules22101589  
**Impact Factor: 2.861**

### Biostatistics

1. **Manda SOM**, **Abdelatif N**. Smoothed temporal atlases of age-gender all-cause mortality in South Africa. *International Journal of Environmental Research and Public Health*. 2017 Sep 15;14(9):e1072.  
DOI: 10.3390/ijerph14091072  
**Impact Factor: 2.101**
2. Mabuka JM, Dugast AS, Muema DM, **Reddy T**, Ramlakhan Y, Euler Z, Ismail N, Moodley A, Dong KL, Morris L, Walker BD, Alter G, Ndung'u T. Plasma CXCL13 but not B cell frequencies in acute HIV infection predicts emergence of cross-neutralizing antibodies. *Frontiers in Immunology*. 2017 Sep 8;8:1104.  
DOI: 10.3389/fimmu.2017.01104  
**Impact Factor: 6.429**

## Environment and Health

1. **Nkomo P, Naicker N, Mathee A**, Galpin J, Richter LM, Norris SA. The association between environmental lead exposure with aggressive behavior, and dimensionality of direct and indirect aggression during mid-adolescence: Birth to Twenty Plus cohort. *Science of the Total Environment*. 2017 Sep 1.  
DOI: 10.1016/j.scitotenv.2017.08.138  
**Impact Factor: 4.900**
2. **Nkomo P, Mathee A, Naicker N**, Galpin J, Richter LM, Norris SA. The association between elevated blood lead levels and violent behavior during late adolescence: The South African Birth to Twenty Plus cohort. *Environment International*. 2017 Sep 12.  
DOI: 10.1016/j.envint.2017.09.004  
**Impact Factor: 7.088**
3. **Wright CY, Reddy T, Mathee A, Street RA**. Sun exposure, sun-related symptoms, and sun protection practices in an african informal traditional medicines market. *International Journal of Environmental Research and Public Health*. 2017 Sep 28;14(10):1142.  
DOI: 10.3390/ijerph14101142  
**Impact Factor: 2.101**

## Gender and Health

1. **Abrahams N, Seedat S, Lombard C, Kengne AP, Myers B, Sewnath A, Mhlongo S, Ramjee G, Peer N, Garcia-Moreno C, Jewkes R**. Study protocol for a longitudinal study evaluating the impact of rape on women's health and their use of health services in South Africa. *BMJ Open*. 2017 Sep 29;7(9):e017296.  
DOI: 10.1136/bmjopen-2017-017296  
**Impact Factor: 2.369**
2. **Jewkes R, Fulu E, Tabassam Naved R, Chirwa E, Dunkle K, Haardorfer R, Garcia-Moreno C**. Women's and men's reports of past-year prevalence of intimate partner violence and rape and women's risk factors for intimate partner violence: A multicountry cross-sectional study in Asia and the Pacific. *PLoS Medicine*. 2017 Sep 05;14(9):e1002381.  
DOI: 10.1371/journal.pmed.1002381  
**Impact Factor: 8.389**
3. **Sikweyiya Y, Shai N, Gibbs A, Mahlangu P, Jewkes R**. Conceptualisations of fatherhood and socio-contextual dynamics influencing father involvement in informal settlements in Durban, South Africa. *Social Dynamics*. 2017 Sep 27;43(1):131-47.  
DOI: 10.1080/02533952.2017.1348039  
**Impact Factor: 0.524**

## Health Systems

1. **Ngandu NK, Carlson JM, Chopera DR, Ndabambi N, Abdool Karim Q, Abdool Karim S, Williamson C**. Brief Report: Selection of HIV-1 variants with higher transmission potential by 1% tenofovir gel microbicide. *Journal of Acquired Immune Deficiency Syndromes*. 2017 Sep;76(1):43-7.  
DOI: 10.1097/qai.0000000000001458  
**Impact Factor: 3.935**

2. Glenton C, Sorhaindo AM, Ganatra B, **Lewin S**. Implementation considerations when expanding health worker roles to include safe abortion care: A five-country case study synthesis. *BMC Public Health*. 2017 Sep;17(1):730.  
DOI: 10.1186/s12889-017-4764-z  
**Impact Factor: 2.265**
3. Ciapponi A, **Lewin S**, Herrera CA, Opiyo N, Pantoja T, Paulsen E, Rada G, Wiysonge CS, Bastias G, Dudley L, Flottorp S, Gagnon MP, Garcia Marti S, Glenton C, Okwundu CI, Penalzoza B, Suleman F, Oxman AD. Delivery arrangements for health systems in low-income countries: An overview of systematic reviews. *Cochrane Database of Systematic Reviews*. 2017 Sep 13; 9:CD011083.  
DOI: 10.1002/14651858.CD011083.pub2  
**Impact Factor: 6.264**
4. Herrera CA, **Lewin S**, Paulsen E, Ciapponi A, Opiyo N, Pantoja T, Rada G, Wiysonge CS, Bastias G, Garcia Marti S, Okwundu CI, Penalzoza B, Oxman AD. Governance arrangements for health systems in low-income countries: An overview of systematic reviews. *Cochrane Database of Systematic Reviews*. 2017 Sep 12;9:CD011085.  
DOI: 10.1002/14651858.CD011085.pub2  
**Impact Factor: 6.264**
5. Pantoja T, Opiyo N, **Lewin S**, Paulsen E, Ciapponi A, Wiysonge CS, Herrera CA, Rada G, Penalzoza B, Dudley L, Gagnon MP, Garcia Marti S, Oxman AD. Implementation strategies for health systems in low-income countries: An overview of systematic reviews. *Cochrane Database of Systematic Reviews*. 2017 Sep 12;9:CD011086.  
DOI: 10.1002/14651858.CD011086.pub2.  
**Impact Factor: 6.264**

## HIV Prevention

1. **Hanass-Hancock J**, McKensie T. People with disabilities and income related social protection measures in South Africa: Where is the Gap? *African Journal of Disability*. 2017 Sep 26;6:2226-7220.  
DOI: 10.4102/ajod.v6i0.300  
**Impact Factor: None**

## Non-Communicable Disease

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DOI: 10.1016/S0140-6736(17)32366-8  
**Impact Factor: 47.831**
2. GBD 2016 DALYs and HALE Collaborators [Includes: **Kengne AP**, Parry CD, Sartorius B, Schutte AE, Stein DJ and Wiysonge C]. Global, regional, and national Disability-Adjusted Life-Years (DALYs) for 333 diseases and injuries and Healthy Life Expectancy (HALE) for 195 countries and territories, 1990-2016: A systematic analysis for the Global Burden of Disease Study 2016. *Lancet*. 2017 Sep 16-22;390(10100):1260-344.  
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**Impact Factor: 47.831**
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10. Aminde LN, Dzudie A, **Kengne AP**, Ndjebet J, Mapoh S, Kuelang X, Kamdem F, Mbatchou Ngahane BH, Doualla MS, Ngu KB, Sliwa K, Thienemann F. Gender disparities in pulmonary hypertension at a tertiary centre in Cameroon. *South African Medical Journal*. 2017 Sep 22. DOI: 10.7196/SAMJ.2017.v107i10.12321  
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11. Lekoubou A, Awoumou JJ, **Kengne AP**. Incidence of seizure in stroke patients treated with recombinant tissue plasminogen activator: A systematic review and meta-analysis. *International Journal of Stroke*. 2017 Sep 05.  
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**Impact Factor: 6.264**
3. **Wiysonge CS**, Ntsekhe M, Thabane L, Volmink J, Majombozi D, Gumedze F, Pandie S, **Mayosi BM**. Interventions for treating tuberculous pericarditis. *Cochrane Database of Systematic Review*. 2017 Sep 13;9:CD000526.  
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4. **Wiysonge CS**, Ndze VN, Kongnyuy EJ, Shey MS. Vitamin A supplements for reducing Mother-To-Child HIV transmission. *Cochrane Database of Systematic Reviews*. 2017 Sep 7;9:CD003648.  
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## 2. EXTRAMURAL RESEARCH UNITS

### Child and Adolescent Lung Health

1. Pavord ID, Beasley R, Agusti A, Anderson GP, Bel E, Brusselle G, Cullinan P, Custovic A, Ducharme FM, Fahy JV, Frey U, Gibson P, Heaney LG, Holt PG, Humbert M, Lloyd CM, Marks G, Martinez FD, Sly PD, von Mutius E, Wenzel S, **Zar HJ**, Bush A. After asthma: Redefining airways diseases. *Lancet*. 2017 Sep 11.  
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### Common Epithelial Cancer

1. **Otgaar TC, Ferreira E, Malindisa S, Bernert M, Letsolo BT, Weiss SFT**. 37 kDa LRP::FLAG enhances telomerase activity and reduces senescent markers in vitro. *Oncotarget*. 2017 Sep 27;8(49):86646-56.  
DOI: 10.18632/oncotarget.21278  
**Impact Factor: 5.168**

### Developmental Pathways for Health

1. **Redinger S, Norris SA**, Pearson RM, Richter L, **Rochat T**. First trimester antenatal depression and anxiety: Prevalence and associated factors in an urban population in Soweto, South Africa. *Journal of Developmental Origins of Health and Disease*. 2017 Sep 7:1-11.  
DOI: 10.1017/s204017441700071x  
**Impact Factor: 2.070**
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### Drug Discovery and Development

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**Impact Factor: 2.698**

### Gynaecological Cancer

1. **Denny L**. Nine-valent human papillomavirus vaccine: Great science, but will it save lives? *Lancet*. 2017 Sep 05.  
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**Impact Factor: 47.831**

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1. **Schneider H**, Nxumalo N. Leadership and governance of community health worker programmes at scale: A cross case analysis of provincial implementation in South Africa. *International Journal for Equity in Health*. 2017 Sep 15.  
DOI: 10.1186/s12939-017-0565-3  
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## HIV/TB Pathogenesis and Treatment

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DOI: 10.1016/j.tube.2017.09.005  
**Impact Factor: 2.873**
2. **Naidoo K**, Hassan-Moosa R, **Yende-Zuma N**, Govender D, **Padayatchi N**, Dawood H, Adams RN, Govender A, Chinappa T, **Abdool-Karim S**, Abdool-Karim Q. High mortality rates in men initiated on anti-retroviral treatment in KwaZulu-Natal, South Africa. *PLoS ONE*. 2017 Sep 13;12(9):e0184124.  
DOI: 10.1371/journal.pone.0184124  
**Impact Factor: 2.806**
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**Impact Factor: 2.101**

## Immunology of Infectious Disease

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**Impact Factor: 2.101**

### Molecular Mycobacteriology

1. Huszar S, **Singh V,** Polcicova A, Barath P, Barrio MB, Lagrange S, Leblanc V, Nacy CA, **Mizrahi V,** Mikusova K. N-Acetylglucosamine-1-phosphate transferase, *WecA*, as a validated drug target in *Mycobacterium tuberculosis*. *Antimicrobial Agents and Chemotherapy.* 2017 Sep 5. DOI: 10.1128/aac.01310-17  
**Impact Factor: 4.302**

### Prospective Gastrointestinal Cancer

1. GBD 2016 Causes of Death Collaborators [Includes: **Sartorius B,** Schutte AE, Stein DJ and Wiysonge C]. Global, regional, and national age-sex specific mortality for 264 causes of death, 1980-2016: A systematic analysis for the global burden of disease study 2016. *Lancet.* 2017 Sep;390(10100):1151-210. DOI: 10.1016/s0140-6736(17)32152-9  
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**Impact Factor: 26.284**

### Respiratory and Meningeal Pathogens

1. Neuzil KM, Bresee JS, de la Hoz F, Johansen K, Karron RA, Krishnan A, **Madhi SA,** Mangtani P, Spiro DJ, Ortiz JR. Data and product needs for influenza immunization programs in low- and middle-income countries: Rationale and main conclusions of the who preferred product characteristics for next-generation influenza vaccines. *Vaccine.* 2017 Sep 20. DOI: 10.1016/j.vaccine.2017.08.088  
**Impact Factor: 3.235**
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## Risk and Resilience in Mental Disorders

1. McLaughlin KA, Koenen KC, Bromet EJ, Karam EG, Liu H, Petukhova M, Ruscio AM, Sampson NA, **Stein DJ**, Aguilar-Gaxiola S, Alonso J, Borges G, Demyttenaere K, Dinolova RV, Ferry F, Florescu S, de Girolamo G, Gureje O, Kawakami N, Lee S, Navarro-Mateu F, Piazza M, Pennell BE, Posada-Villa J, Ten Have M, Viana MC, Kessler RC. Childhood adversities and post-traumatic stress disorder: Evidence for stress sensitisation in the world mental health surveys. *British Journal of Psychiatry*. 2017 Sep 21.  
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**Impact Factor: 6.347**
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## Rural Public Health and Health Transition

1. Stoner MCD, **Pettifor A**, Edwards JK, Aiello AE, Halpern CT, **Julien A**, Selin A, **Twine R**, Hughes JP, Wang J, Agyei Y, **Gomez-Olive FX**, **Wagner RG**, **MacPhail C**, **Kahn K**. The effect of school attendance and school dropout on incident HIV and HSV-2 among young women in rural South Africa enrolled in HPTN 068. *AIDS*. 2017 Sep 24;31(15):2127-34.  
DOI: 10.1097/qad.0000000000001584  
**Impact Factor: 5.019**
2. Stoner MCD, Edwards JK, Miller WC, Aiello AE, Halpern CT, **Julien A**, Selin A, Hughes J, Wang J, **Gomez-Olive FX**, **Wagner RW**, **Macphail C**, **Kahn K**, **Pettifor A**. The effect of school attendance and school dropout on incident HIV and HSV-2 among young women in rural South Africa enrolled in HPTN 068. *Journal of Acquired Immune Deficiency Syndromes*. 2017 Sep 11.  
DOI: 10.1097/QAI.0000000000001544  
**Impact Factor: 3.935**
3. **Twine R**, **Hundt GL**, **Kahn K**. The ‘experimental public’ in longitudinal health research: Views of local leaders and service providers in rural South Africa. *Global Health Research and Policy*. 2017 Sep 06;2(1):26.  
DOI: 10.1186/s41256-017-0046-7  
**Impact Factor: None**

## 3. GRANT FUNDED RESEARCH

1. Olaniyan T, Jeebhay M, Roosli M, Naidoo R, Baatjies R, Kunzil N, Tsai M, Davey M, de Hoogh K, Berman D, Parker B, Leaner J, **Dalvie MA**. A prospective cohort study on ambient air pollution and respiratory morbidities including childhood asthma in adolescents from the Western Cape Province: Study protocol. *BMC Public Health*. 2017 Sep 16;17(1):712.  
DOI: 10.1186/s12889-017-4726-5  
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2. Abdalrahman T, **Franz T**. Analytical modeling of the mechanics of early invasion of a merozoite into a human erythrocyte. *Journal of Biological Physics*. 2017 Sep 15.  
DOI: 10.1007/s10867-017-9463-6  
**Impact Factor: 1.241**

3. Mwanza D, Mvango S, Khene S, Nyokong T, **Mashazi P**. Exploiting click chemistry for the covalent immobilization of tetra (4-propargyloxyphenoxy) metallophthalocyanines onto phenylazide-grafted gold surfaces. *Electrochimica Acta*. 2017 Sep 20.  
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**Impact Factor: 4.798**
4. Bleloch JS, Ballim RD, Kimani S, Parkes J, Panieri E, Willmer T, **Prince S**. Managing sarcoma: Where have we come from and where are we going? *Therapeutic Advances in Medical Oncology*. 2017 Sep 20.  
DOI: 10.1177/1758834017728927  
**Impact Factor: 6.294**
5. **Walters E**, Demers AM, van der Zalm MM, Whitelaw A, Palmer M, Bosch C, Draper HR, Gie RP, Hesselning AC. Stool culture for the diagnosis of pulmonary tuberculosis in children. *Journal of Clinical Microbiology*. 2017 Sep 13.  
DOI: 10.1128/jcm.00801-17  
**Impact Factor: 3.712**
6. **Bantjes J**. 'Don't push me aside, doctor': Suicide attempters talk about their support needs, service delivery and suicide prevention in South Africa. *Health Psychology Open*. 2017 Sep 08.  
DOI: 10.1177/2055102917726202  
**Impact Factor: None**

## **4. RESEARCH UNITS WITH NO QUALIFYING PUBLICATIONS**

### **Intramural**

- Burden of Disease
- Centre for Tuberculosis
- Office of AIDS
- Office of Cancer
- Office of Malaria
- Office of Tuberculosis
- Primate
- Violence, Injury and Peace

### **Extramural**

- Antiviral Gene Therapy
- Bioinformatics Capacity Development
- Diarrhoeal Pathogens
- Herbal Drugs
- Human Genetics
- Maternal and Infant Health Care Strategies
- Receptor Biology
- Stem Cell Research and Therapy

### **Research Centres**

- Advancing Care and Treatment (ACT) for TB/HIV
- Centre for Basic and Translational Human TB Research
- Centre for Tuberculosis Biomarker-Targeted Intervention
- Clinical and Community HIV-Tuberculosis Research Collaborating Centre
- Soweto Matlosana SAMRC Collaborating Centre for HIV/AIDS and TB
- TB Free through Research and Innovation
- Tuberculosis Collaborating Centre for Child Health (TB-CHILD)
- Tygerberg SAMRC Collaborating centre for HIV Laboratory Research
- UCT Collaborating Centre for Optimising Antimalarial Therapy in South Africa
- UP Centre for Sustainable Malaria Control
- Wits Clinical HIV/TB Research Unit, WITS Health Consortium
- Wits Collaborating Centre for Multi-disciplinary Research on Malaria
- Wits RHI Collaborating Centre for HIV/AIDS

## 1. GRANTS AWARDED

SAMRC LIST OF NEW CONTRACTS FOR SEPTEMBER 2017					
SAMRC Unit	Funder	Main Funder	Project Title/Description	Contract Value	
				Rand	Foreign Currency
ATODRU	RTI	NIH	Integrating comprehensive gender specific HCT in community centres	33,044,193	\$225,591
HSRU	WHO	WHO	A Proof of concept feasibility study of an outreach mentorship approach for disseminating the updated 2016 WHO HIV and infant feeding guidelines	2,024,145	\$150,000

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 South African Medical Research Council  
 PO Box 19070, Tygerberg 7505,  
 Cape Town, South Africa,  
 Francie van Zijl Drive, Parow Valley, Cape Town  
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