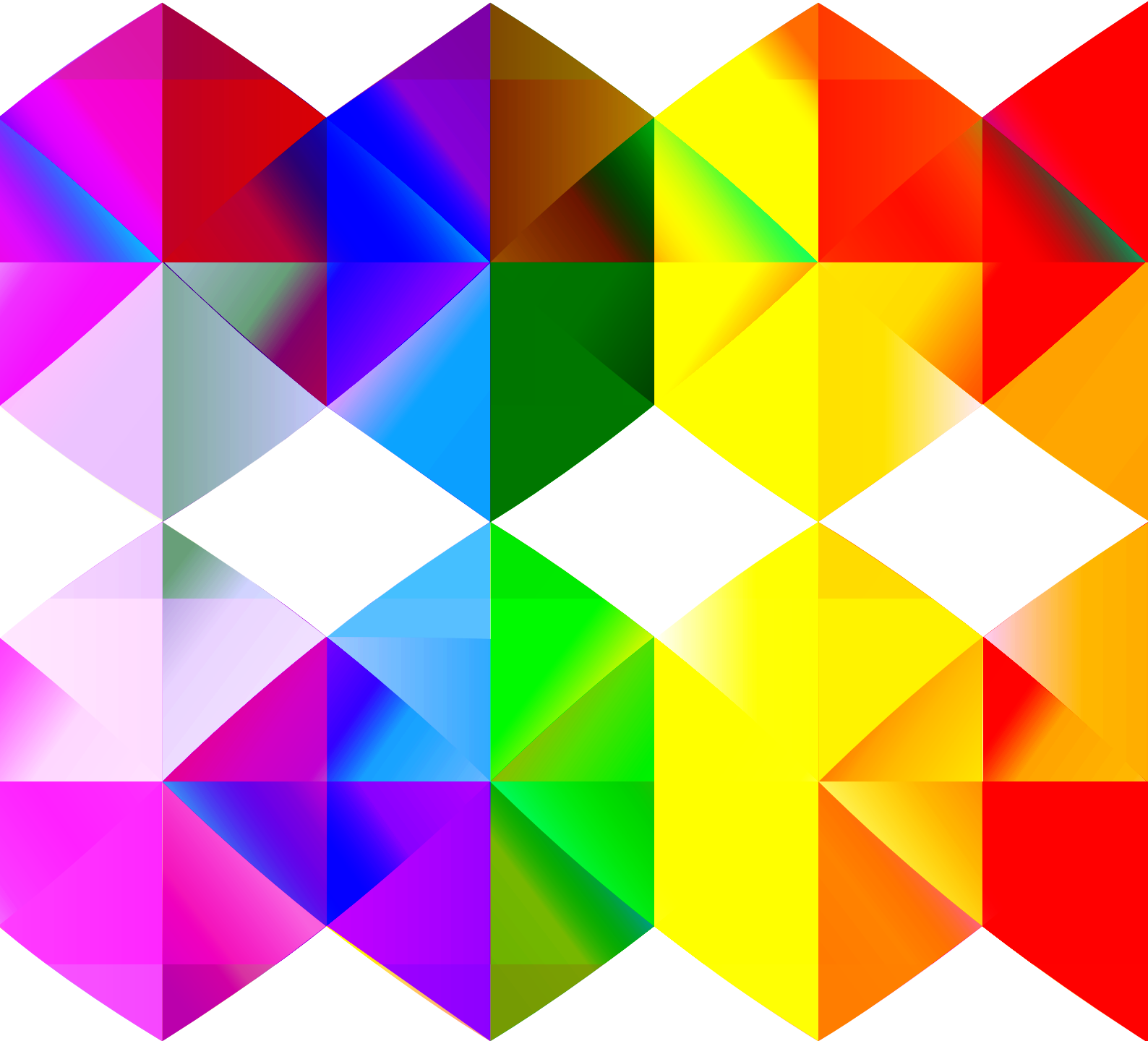




MSHC

MELBOURNE SEXUAL HEALTH CENTRE

Part of AlfredHealth



Annual Report **2017**

Content

05	Overview
08	Director's report
11	Services and consultations
17	Research
18	Prizes and awards
20	Publication highlights
22	Publications
32	Staff
33	Client satisfaction survey

Melbourne Sexual Health Centre (MSHC) is a service within Alfred Health. The vision of the MSHC is to be a leader in the management and prevention of Sexually Transmitted Infections (STIs) and its mission is to maximize sexual health through innovation and excellence in public health, education, clinical care and research.

Overview

The MSHC has been in operation since 1918 as a specialised unit for the diagnosis and treatment of sexually transmissible infections (STIs). It is the only centre that provides full-time, free sexual health services to the people of Victoria. The Centre became part of Alfred Health in 2003. The services provided by MSHC include general clinics for the management of STIs and HIV and a variety of specialist clinics. The service provided is predominantly walk in led by nurse triage service that focuses on high risk individuals with some appointments.

Special services provided by MSHC include:

- Medical care and community welfare support for people living with HIV
- Dermatology clinic for specialist dermatological management of genital skin disorders and dermatological conditions in HIV positive and negative clients
- Counselling services with qualified counsellors that are available for individuals or couples with concerns about sexual health and STIs, including HIV
- STI testing through a website and/or telephone consultations for young people under 25 years, men who have sex with men (MSM) and Aboriginal or Torres Strait Islanders of any age living more than 100km from Melbourne augmented by self collected specimens and postal treatment
- Express testing service for MSM, Test and Go service (TAG)
- HIV Integrated Prevention clinic (HIP)
- Outreach services for men who attend sex on premises venues.
- Nursing service for Access Health (Salvation Army) in St Kilda that provides services for marginalised people in the community. Funding by the Drug and Alcohol section of the Department of Health has been provided for 5 hours of sexual health nursing services/week.
- On-site pharmacy provided by Alfred Health
- On-site laboratory service provided by the Public Health Laboratory - Microbiology Diagnostic Unit (PHL-MDU), University of Melbourne which provides assistance to clinicians to make same day diagnoses and treatment

The team of health care providers at MSHC includes 26 doctors, 38 sexual health nurses and 2 counsellors. The clinicians play an instrumental role in screening and testing for STIs and HIV, STI and HIV prevention, education and counselling. The health care team is supported by 15 other staff members in administrative or clerical roles, IT support, pharmacists and medical scientists.

The pharmacy services at MSHC are co-ordinated by Alfred Health pharmacy services. The staff rotate at 6 monthly intervals and cover 4 campuses: The Alfred Hospital, Caulfield and Sandringham Hospitals, and MSHC.

As the population of Victoria grows, so too does the demand for the Centre's services. MSHC has continued to place importance on the provision of services that maximise access for members of the public in most need. This has been achieved through the continued provision of services that are free of charge, have greater flexibility through the use of walk-in triage and additional gains from clinical efficiency. Extra clinical services are provided for men who have sex with men (MSM), who currently constitute a major risk group for STIs in Victoria.

One of MSHC's key roles is to promote public health and education. It aims to provide material that is freely available to both the general public and health care providers, particularly general practitioners

(GPs). MSHC provides support to GPs as well as the public through its web based service www.mshc.org.au and free-call telephone service whereby GPs can receive specialist clinical advice directly from a sexual health physician.

The frequently updated MSHC website www.mshc.org.au comprises of information divided into four major sections:

- Clinic information that includes available services recently implemented
- Sexual health for the general public
- Resources for health professionals
- Research and education

There are also interactive online services provided:

For the general public:

- www.ispysti.org/ (iSpy STI) is a symptom checker to help users understand their genital symptoms who may have a sexually transmitted infection
- www.letthemknow.org.au/ (Let Them Know) for assisting individuals diagnosed with sexually transmitted infections about informing their partners about their possible risk of infection. The site has numerous tools including examples of conversations, emails, SMS and letters to communicate the information as well as fact sheets
- www.checkyourrisk.org.au (Check Your Risk) to check risk of exposure to an STI
- www.testme.org.au/ (TESTme) provides STI testing through telephone consultations for young people under 25 years, men who have sex with men (MSM) and Aboriginal or Torres Strait Islanders of any age living more than 100km from Melbourne augmented by self collected specimens and postal treatment
- www.mshc.org.au/syphilis (Syphilis) for assisting people who may have concerns about having contracted or have been diagnosed with syphilis. The site has detailed information about symptoms and treatment of syphilis, photographs and information on reducing risk and informing partners
- www.healthmap.org.au (Health Map) for HIV positive people to find out what tests are needed and also what issues should be on the agenda at the next visit to the doctor or clinic. Health Map asks questions about health and provides a personal report, based on expert advice. This report directs users to chosen websites for particular needs, and provides some facts and a “to do” list for medical care

For general practitioners:

- Online STI atlas www.stiatlas.org/ is a free, open access online atlas showcasing MSHC’s extensive library of clinical images aimed at improving diagnoses of STIs for health care providers internationally
- www.mshc.org.au/gpassist (GP Assist) provides a mechanism to improve partner notification by providing the www.mshc.org.au/GPassist web address on laboratory reports of positive results of common STIs. Accessible information about treatment of the more common STIs and simple tools such as partner letters and fact sheets for GPs to use in discussing partner notification are also available at this site
- www.mshc.org.au/health-professional/stitool This Tool has been prepared as an aid for GPs, providing simplified guidelines for STI screening and for dealing with common symptomatic presentations. The PDF file may be downloaded to allow offline access, both desktop and mobile, but please make sure you have the latest version. The Tool is an ongoing project and will be updated frequently.
- Treatment guidelines www.mshc.org.au/health-professionals/treatment-guidelines

Online training and education resources for health care professionals:

- Educational videos (see list Table 1) and audios for management of common sexual health issues such as treating genital warts and diagnosing PID, taking a Papanicolaou smear, symptoms of acute HIV, and examples of partner notification explanations to clients www.mshc.org.au/education/
- Case studies with photographs www.mshc.org.au/education/case-studies

Table 1 List of educational videos for health professionals

1. MSHC Orientation	A brief description about what happens at Melbourne Sexual Health Centre
2. Chlamydia - introducing the test	How to introduce the recommended annual chlamydia test in a non sexual health consultation
3. Chlamydia in general practice	Who, Where, When and Why An update on a previously recorded - chlamydia testing video
4. Sexual health check up	Sexual health checkups for asymptomatic patients
5. PID	Pelvic inflammatory disease - diagnosis and management
6. Partner notification	Assisting patients to contact their partners
7. Warts removal	Treating warts by cryocautery
8. Warts treatment	Wart treatment
9. Laboratory diagnosis of STIs	Laboratory diagnosis of sexually transmitted infections
10. Sexual health examination	Sexual Health Examination and Normal Variants
11. HSV	Genital herpes
12. Cervical sampling	A clinicians guide to taking a Pap Test

Table 2 List of educational audio presentations for health professionals

Adolescent Sexual Health
Genital Chlamydia
Management of Vulvar Pain
Pap Smear Terminology
Sex Worker Screening
Type-Specific Herpes Serology
MSM Screening

The Centre also fulfills an important role as a principal centre for the training of health professionals in Victoria through Dr Hennie Williams at Melbourne University.

The teaching and sexual health courses remain with The University of Melbourne.

MSHC places a premium on the provision of high quality services that are responsive to client needs. To this end, the Centre is active in quality assurance activities, which include an annual client satisfaction survey, where 98% of clients in 2017 expressed satisfaction with the service.

DIRECTOR'S REPORT

Welcome to our 2017 annual report. This year has been one of our most challenging years but as always our wonderful staff have embraced the challenge and provided the Victorian public with an outstanding service under extraordinary pressure. We've provided nearly 50,000 consultations and yet, as in past years, we have had so many grateful clients, 98% of whom have been satisfied with the care they have received. We are indeed fortunate for such spectacular and motivated staff.

To accommodate the inexorably rising client load we were provided with additional funds to open on Friday morning from October 2017. This has allowed us to see an extra 3190 clients by the time of this report and we, and these clients, are very grateful for the support of Alfred Health and the Department of Health and Human Services. MSHC continues to provide a very high quality service in both the General and HIV clinic. Dr Nick Medland who is completing a PhD within our service showed that the time from HIV infection to an undetectable viral load has shortened dramatically for clients attending our service. Undetectable viral load is vital in reducing the transmission of HIV. In another quality improvement, 2017 also saw MSHC introducing and providing free HPV vaccine for younger men who have sex with men. This will translate into fewer cases of cancer in years to come.

Dr Marcus Chen and Dr Nick Medland have also been critical to our efforts to reduce the pressure on our MSHC service through the Victorian HIV Hepatitis Integrated Training and Learning program (VHHITAL) program funded by DHHS Victoria. This program aims to improve STI education for GPs across Victoria and build GP capacity for STI care across metropolitan and regional areas.

Our research success is second to none for a clinical sexual health service. During 2017, the Centre has published 102 scientific papers in very high ranking journals. The quality of the work, and its potential to improve STI care is extraordinary. One paper published in *Sexually Transmitted Infections* by Eric Chow has the second highest Altimetry score of all papers published in recent time in that journal. This paper was the first randomised study of mouthwash and preceded the Oral Mouthwash to Eradicate Gonorrhoea (OMEGA) study which the world is waiting for with baited breath. It is indeed nice to work in a place whose research is being talked about all over the world.

Not surprisingly given the quality of this research work, Eric Chow received Monash University Dean's Award in Excellence. He was the highest rank researcher at his level within the entire Faculty of Medicine, Nursing and Health Sciences, Monash University. This award was a huge achievement given that the faculty has 10 Schools and many departments. Eric also won the ASHA Mid-Career Interdisciplinary Achiever Award at the Sexual Health Conference in Canberra, 2017 and the 2017 Victorian Young Tall Poppy Scientist of the Year. These awards reflect very well on Eric but also on all the staff of Melbourne Sexual Health Centre. Our staff make these research successes possible and demonstrate the value and synergy from combining excellence in clinical care and research together in the one service.

Very sadly on Friday the 30th of June this year Dr Seenivasagan Yoganathan or as he was affectionately known 'Yoga' passed on. We owed him an enormous sense of gratitude for his invaluable contribution to our Center over more than three decades (since 1987). Yoga was utter delight. He was happy, gracious, polite and so very genuine. His depth and extraordinary clinical experience was I think irreplaceable.

We will miss some other dear staff who moved on or retired in 2017. Deanna retired after nearly 30 years and she will be missed dearly by us all. We have heard that Deanna is thoroughly enjoying her retirement that she well and truly earned. We also said farewell to the delightful Irene Kuzevska who will be spending more time with her children at home and supporting her husband in the family business. It was a great loss for the Centre but a wonderful gain for them. We thank Irene for all her hard work over the years and wish her well. Sandy Walker also left to fulfil her long term plan of building her psychology practice. She has been at MSHC for 10 years firstly with the University of Melbourne and then with Monash University. She is an outstanding individual and we're quite certain her practice will thrive.

We also passed an important mile stone this year. It was 25 years since the 12th July 1992, when our Centre was relocated to this site in Carlton. A newspaper article at the time provided by Tina Schmidt reported that the Centre performed 100-200 tests per week, diagnosed a couple of hundred cases of chlamydia a year and had 3 counselling rooms and 9 consultation rooms. This is quite a change from today with 30 consultation rooms and over 3,000 cases of chlamydia in the past year.

On behalf of Suzanne, Ria and Marcus, thank you to a wonderfully talented team of extraordinarily health professionals and administrative support staff who are; Melbourne Sexual Health Centre.

25TH BIRTHDAY BASH



25TH BIRTHDAY BASH



SERVICES AND CONSULTATIONS

The numbers of consultations by type of service provided onsite are shown in Table 3. A further 272 outreach consultations were carried out offsite at various venues for men-who-have-sex-with-men (MSM) and Access Health services for marginalized people.

Table 3

Clinic Type	Total	Male	Female	Transgender
General Clinic	44,955	31,013	13,422	237
HIV Clinic	3,515	3,119	372	24
Counselling	900	657	235	8
Total	49,370	34,789	14,234	347
<i>Individuals</i>	<i>24,149</i>	<i>15,763</i>	<i>8,221</i>	<i>165</i>

Diagnoses

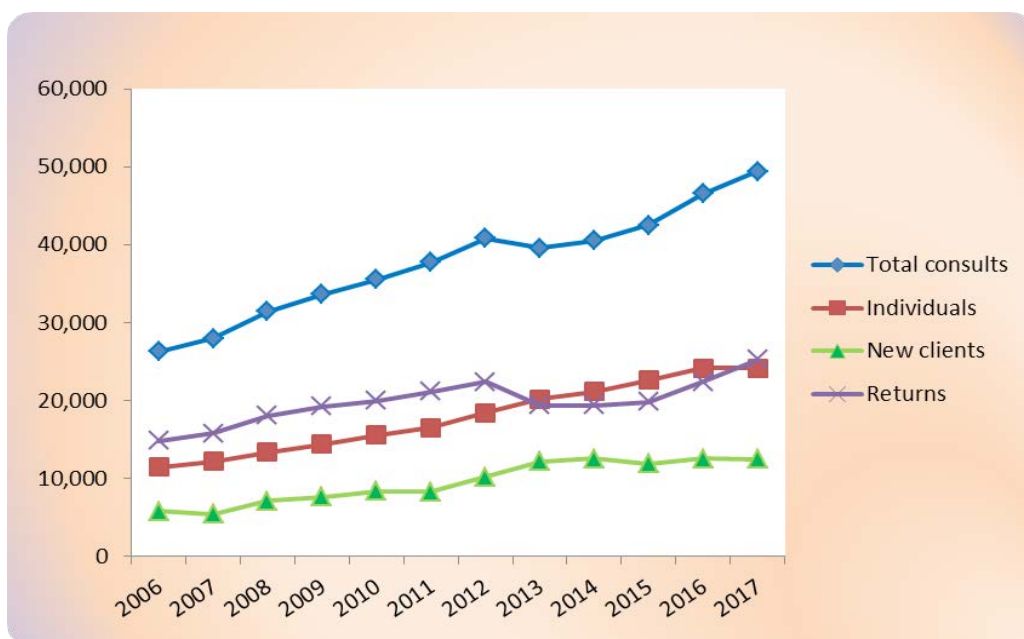
The numbers of the most frequently made diagnoses in consultations are shown in Table 4.

Table 4

Diagnoses	Total
Chlamydia trachomatis	3,046
Neisseria gonorrhoea	2,177
Non gonococcal urethritis (NGU)	1,953
Herpes	1,015
Infectious syphilis	382
Bacterial vaginosis	1,019
Warts	1,448
HIV new cases	55
PID	356
Mycoplasma genitalium	426
Lymphogranuloma venereum	15
HIV PEP	1,322
PCI	61
Gonorrhoea in women	177
Trichomoniasis in women	18
Infectious syphilis in women	7

The numbers of consultations continue to rise with the number of individuals steadily increasing (Figure 1). In 2015, there were 42,466 consultations in total; 46,564 in 2016 and 49,370 in 2017. There was a marginal decrease in consultations in the General Clinic from 36,528 in 2012 to 35,072 in 2013 and in 2014 35,836. Since 2015, consultations in the General Clinic have risen from 37,859 to 44,955 in 2017 (Table 3). The number of returning clients remained at approximately the same level from 2013 (19,410 to 19,851 in 2015) after a significant reduction in returning clients in 2012 as a result of changes to sexworker health checks from monthly to 3 monthly in October 2012 and the change in policy of HIV negative results for all clients being provided by telephone consultations from the beginning of 2013. Since 2016, there has been a significant increase in returning clients (22,422 to 25,221 in 2017). This may be the result of the introduction of the Test and Go (TAG) and HIV Integrated (HIP) services.

Figure 1 Increasing numbers of clients each year



The numbers of positive chlamydia and gonorrhoea tests have also increased (Figure 2 and 3) as well as the number of infectious syphilis cases (Figure 4). The numbers of gonococcal positive tests have increased significantly since the introduction of highly sensitive nucleic acid amplification tests for screening in March 2015.

Figure 2 Number of positive chlamydia tests by year



Figure 3 Number of positive gonorrhoea tests by year

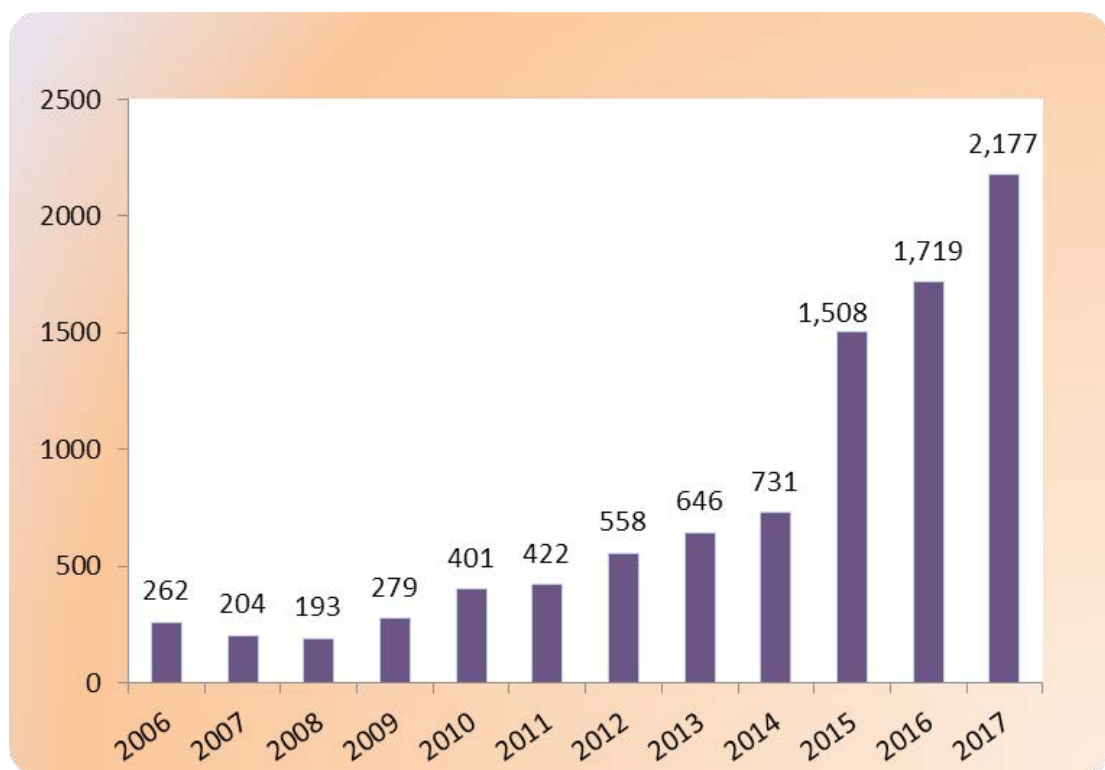


Figure 4 Number of infectious syphilis cases by quarter and year

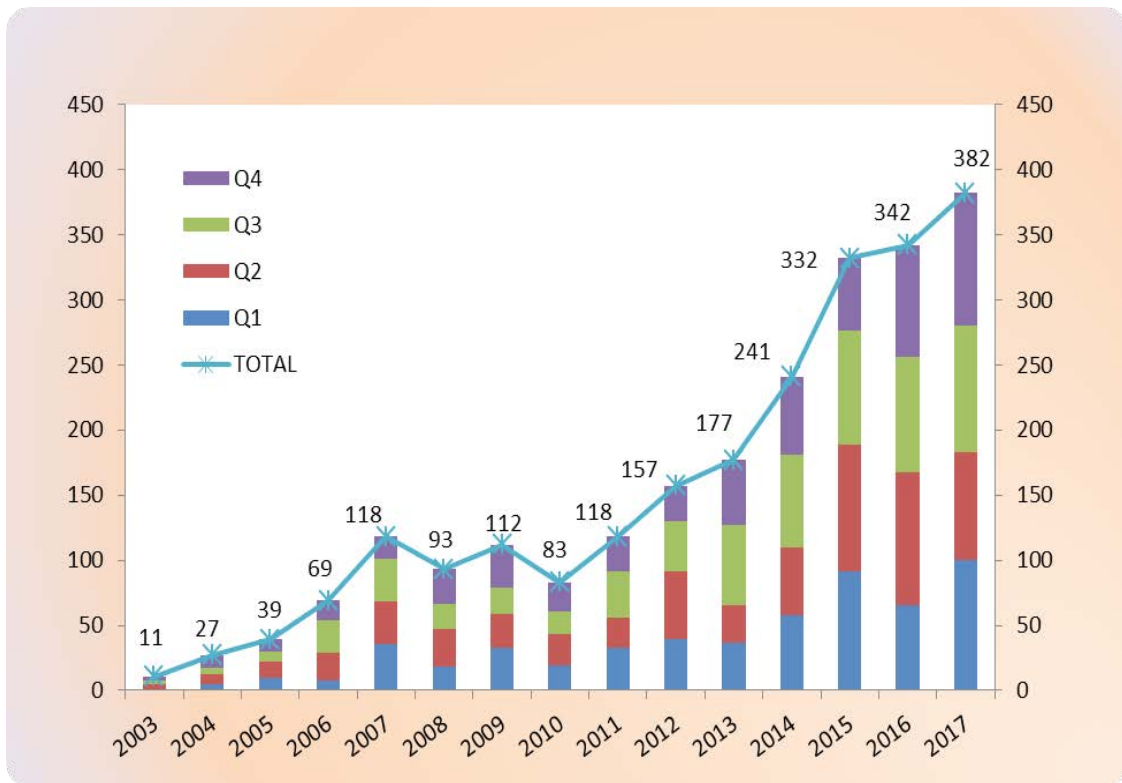
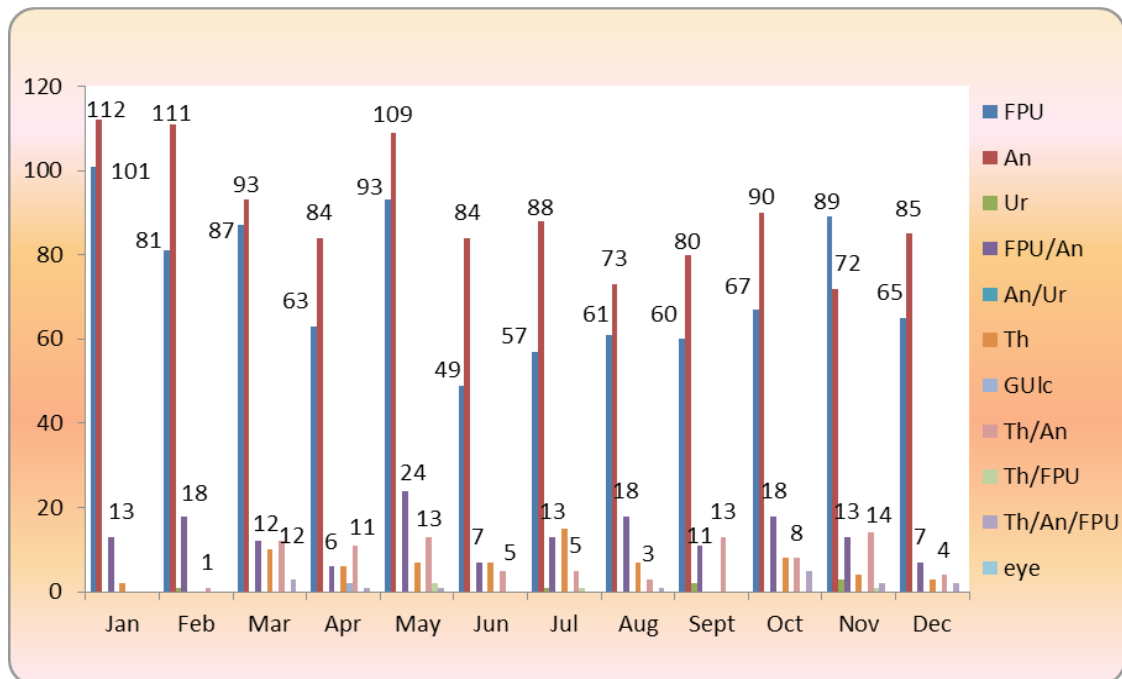
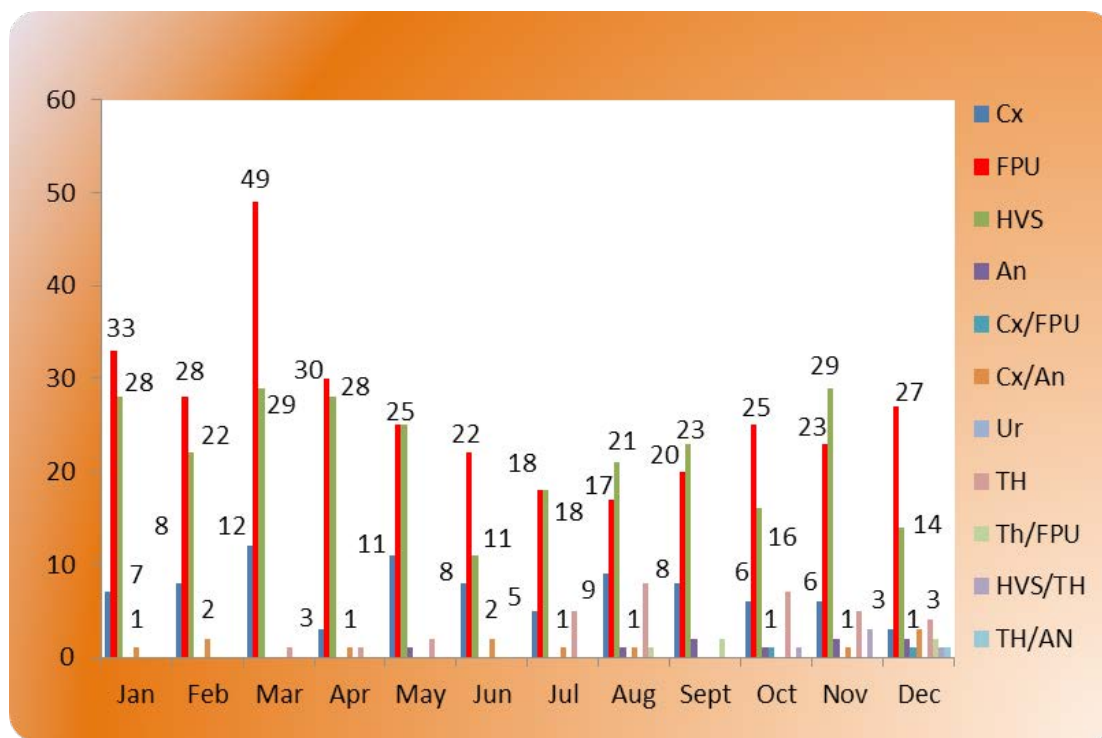


Figure 5 Sites of chlamydia infections among 2,300 males in 2017



List of abbreviations: FPU – first pass urine; An – anal; Ur – urethral, Th – throat, GULc – genital ulcer

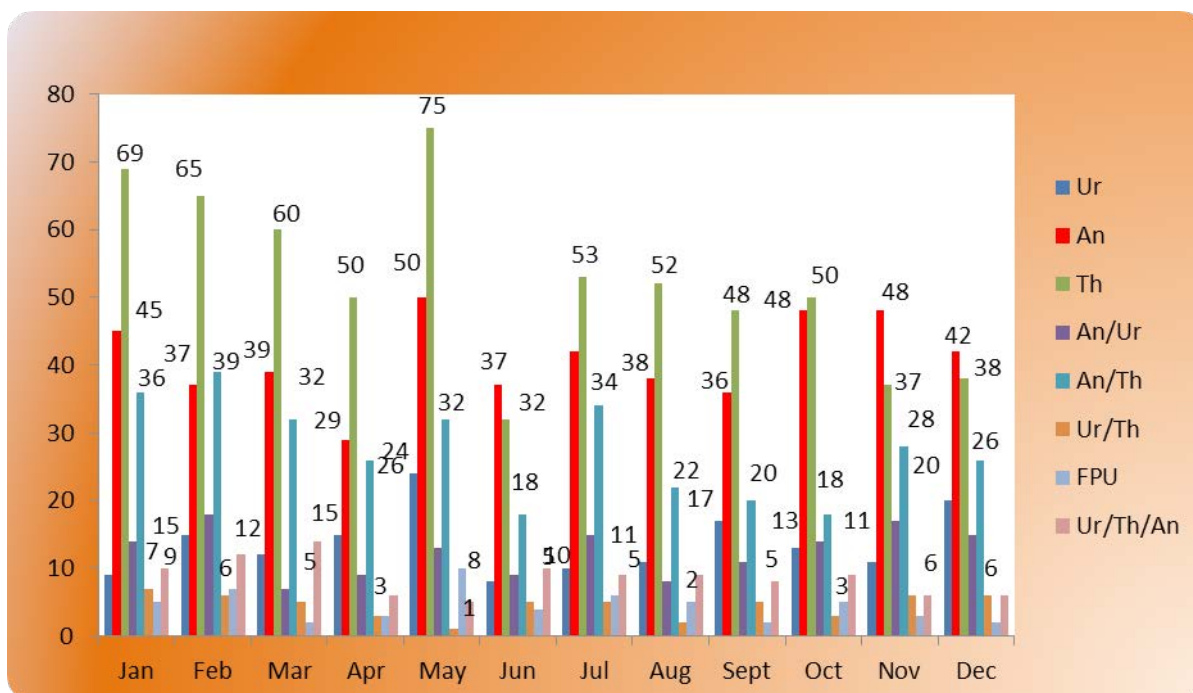
Figure 6 Sites of chlamydia infections among 734 females in 2017



List of abbreviations: Cx – cervical; HVS – high vaginal

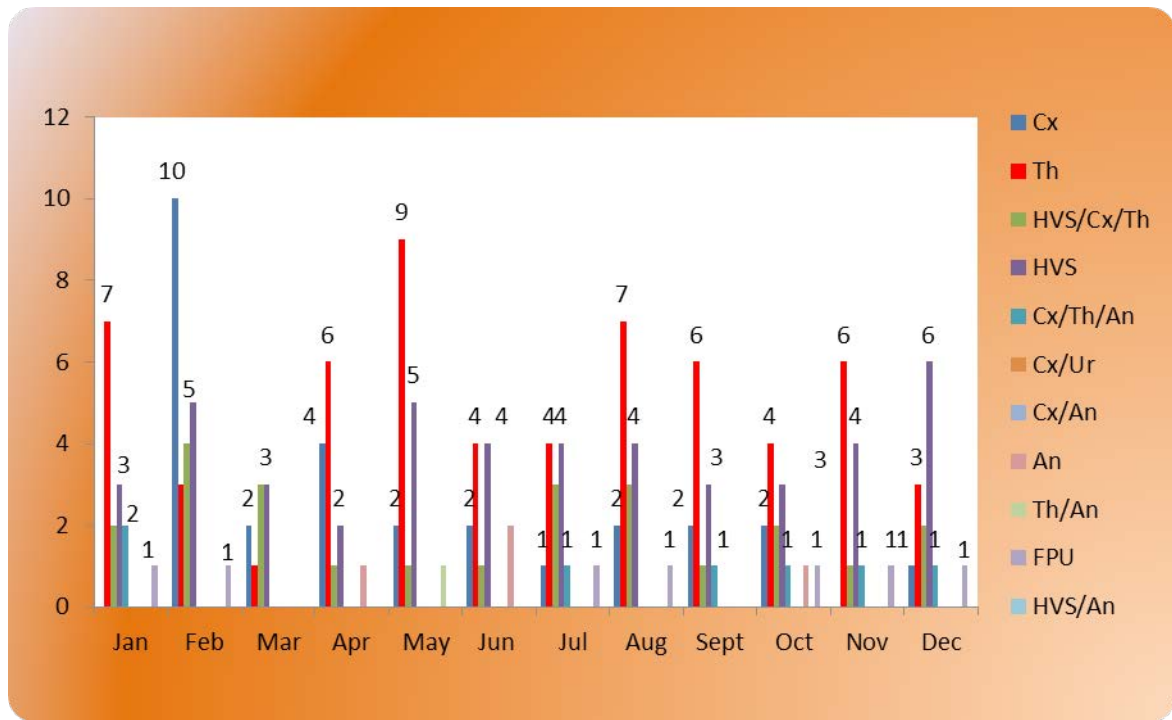
Chlamydia trachomatis remains the most common bacterial STI diagnosed at MSHC. The number of chlamydia infections by sex and site are shown in Figure 4 and 5). The majority of gonococcal infections occur in MSM.

Figure 7 Sites of gonococcal infections among 1,978 males in 2017



List of abbreviations: FPU – first pass urine; An – anal; Ur – urethral, Th – throat

Figure 8 Sites of gonococcal infections among 177 females in 2017



List of abbreviations: Cx – cervical; HVS – high vaginal

Introduction in October of routinely collected throat swabs from female sexworkers

RESEARCH

The Centre has continued to maintain strong research and education activities through the Central Clinical School, Monash University and The Sexual Health Unit of the School of Population Health, University of Melbourne

Postgraduate Research

In progress:

*Sexually transmitted infections (STIs) in HIV-infected patients in the Australian HIV Observational Database (AHOD), **Brian Mulhall**, PhD, The University of New South Wales*

*Is the current treatment of genital chlamydia infection appropriate? **Fabian Kong**, PhD, The University of Melbourne*

*Epidemiology of gonorrhoea and its interaction with other major STDs among male patients in South Australia, **Bin Li** (Mikko), PhD, The University of Adelaide*

*What do we know about the diagnosis & management of pelvic inflammatory disease in Australia? **Jane Goller**, PhD, The University of Melbourne*

*The HIV treatment cascade: improved individual and population health outcomes through a better understanding of the natural history of HIV and its treatment in modern health care systems. **Nick Medland**, PhD, Monash University*

*Epidemiology of gonorrhea, chlamydia and HIV in men who have sex with men, and evaluation of new prevention strategies, **Vincent Cornelisse**, PhD, Monash University*

*Epidemic syphilis in Victoria 2015: Strategies to improve prevention, early detection and treatment, **Janet Towns**, PhD, Monash University*

*RTS: Rectal Treatment Study - comparing single dose 1g azithromycin to 500mg doxycycline twice daily for 7 days as treatment for rectal chlamydia in men who have sex with men (MSM). **Andrew Lau**, PhD, The University of Melbourne*

*Mycoplasma genitalium to genital symptoms in women and MSM. **Rosie Latimer**, PhD, Monash University*

*Using metagenomic techniques to investigate the influence of hormonal contraception on the vaginal microbiota and to determine the cause of non-gonococcal urethritis. **Larissa Ratten**, PhD, Monash University*

*Understanding the pathogenesis of bacterial vaginosis. **Erica Plummer**, PhD, Monash University*

*Novel approaches to treatment and testing of sexually transmitted infections, **Chloe Durukan**, PhD, Monash University*

Completed research projects as part of MPH

Body image and sexual behaviours in young men: a systematic literature review. **Luke Mitchell**, University of Melbourne

The perceptions and experiences of concurrent condom use in young women using long acting reversible contraception (LARC): a qualitative study. **Nabreesa Shafeeu**, University of Melbourne

What is the nature, extent and geographic distribution of attitudes towards PrEP use globally on Twitter. **Julien Tran**, University of Melbourne

Exploring the physical, psychological and social needs of Australian women with endometriosis. **Emma Steele**, University of Melbourne

Completed Bachelor of Medical Science (Hons)

Understanding the trends of genital herpes simplex virus infections in Melbourne, Australia, 2004 – 2016, **Chloe Durukan**, Monash University

Summer Student Scholarship Projects

Increasing proportion of new HIV diagnoses and potential under-reporting of risk behaviours among newly arrived Asian born gay and bisexual men 2014 – 2017 in Australia: A case control study **Lucinda Blackshaw**, Monash University

Potential reduction in access for STI services in Melbourne because of clinical load created by the PrEPX study. **Robert Needleman**, Monash University

Sampling technique and detection rates for pharyngeal and rectal swabs for gonorrhoea and chlamydia in men who have sex with men. **Tim Yang**, Monash University

International Post Doctoral Research Fellow

Dr.Vino Dharmakulasinghe, Venereologist , the Ministry of Health & Post graduate Institute of Medicine , University of Colombo, Sri Lanka.

Prizes and awards

- Eric Chow received the Dean's Award for Excellence in Research (Early Career), from the Faculty of Medicine, Nursing and Health Sciences Monash University for Early Researcher Fellows Publication Prize for Non-Laboratory Based Research, for his article, "Quadrivalent vaccine-targeted human papillomavirus genotypes in human heterosexual men after the Australian female human papillomavirus vaccination program: a retrospective observational study" *Lancet Infect Dis.* 2017 Jan; 17(1):68-77. doi: 10.1016/S1473-3099(16)30116-5
- Professor Christopher Fairley received the *Australasian Sexual Health Alliance (ASHA) Distinguished Services to Sexual Health Award* at the Sexual Health Conference in Canberra, 2017. This award acknowledged Kit as a distinguished and visionary leader who has made an outstanding contribution to the field of sexual health, both nationally and internationally.
- Nick Medland was awarded the best oral presentation award in the HIV prevention and epidemiology stream at the recent Australian HIV&AIDS Conference. The presentation was titled "Time From HIV Infection To Virological Suppression: Dramatic Fall From 2007-2016" and was conducted at MSHC

- Eric Chow won the ASHA Mid-Career Interdisciplinary Achiever Award at the Sexual Health Conference in Canberra, 2017
- Eric Chow won the 2017 Victorian Young Tall Poppy Scientist of the Year. The Tall Poppy Campaign was created in 1998 by the Australian Institute of Policy and Science (AIPS) to recognise and celebrate Australian intellectual and scientific excellence and to encourage younger Australians to follow in the footsteps of our outstanding achievers. It has made significant achievements towards building a more publicly engaged scientific leadership in Australia



- Catriona Bradshaw was awarded a National Health and Medical Research Council (NHMRC) project grant
- Professor Christopher Fairley was awarded the Eric Susman Prize which is presented by The Royal Australasian College of Physicians. The Eric Susman Prize was established by a bequest of Eric Leo Susman, a Foundation Fellow of The Royal Australasian College of Physicians. The Prize is awarded annually to a Fellow of the College for the best contribution to knowledge of any branch of internal medicine. This award means very much to Kit as his mother the late Professor Priscilla Kincaid Smith was awarded the same award 1968



PUBLICATION HIGHLIGHTS

Study: Medication adherence, condom use and sexually transmitted infections in Australian PrEP users: interim results from the Victorian PrEP Demonstration Project

Researchers: Lal L, Audsley J, Murphy D, Fairley CK, Stoove M, Roth N, Moore R, Tee BK, Puratmaja N, Anderson PL, Leslie D, Grant RM, De Wit J, Wright E

Publication: AIDS 2017 31(12): 1709 - 1714 doi: 10.1097/QAD.0000000000001519

Summary: Taking HIV pre-exposure prophylaxis (PrEP) is associated with less condoms being used for anal sex. Participants recruited from three general practice clinics and one sexual health clinic in Melbourne consented to take daily PrEP for 30 months. Sexual practice data, HIV and sexually transmitted infection (STI) test results were collected at baseline and 3-monthly during follow up. Adhering to taking PrEP medication was high. A decline in condom use was found together with an increase in STIs over the first 12 months of PrEP.

Study: Patterns of sexual behaviour and sexual healthcare needs among transgender individuals in Melbourne, Australia, 2011-2014

Researchers: Bellhouse C, Walker S, Fairley CK, Vodstrcil LA, Bradshaw CS, Chen MY, Chow EPF

Publication: Sexually Transmitted Infections 2017, September 2016, doi: 10.1136/sextrans-2016-052710

Summary: The majority of transgender individuals in this study were single or had never married. Almost half of the individuals had engaged in sex work during their lifetime. Low rates of condom use with both male and female sexual partners were reported and also much lower rates of injecting drug use (IDU). Chlamydia was found in 7%; gonorrhoea in 5%; 5% had syphilis and 1% had HIV. Hormone use for reassignment was reported by 63% of individuals and reassignment surgery was reported by 27%.

Study: Self-reported use of mouthwash and pharyngeal gonorrhoea detection by nucleic acid amplification test

Researchers: Eric P.F. Chow, Sandra Walker, Tim R.H. Read, Marcus Y Chen, Catriona S Bradshaw and Christopher K Fairley

Publication: *Sexually Transmitted Diseases* 2017;44(10):593-595 doi:10.1097/OLQ.0000000000000654

Summary: Using alcohol-containing mouthwash may reduce throat gonorrhoea. We looked at whether men who have sex with men (MSM) who said they used mouthwash had throat gonorrhoea. The men completed a short questionnaire on their mouthwash

use and they were also tested for throat gonorrhoea. Throat gonorrhoea was found more often in younger men under 24 years than men over 25 years. Reported daily use of mouthwash increased with age. More detailed studies are needed to examine whether mouthwash could be recommended to reduce throat gonorrhoea

Study: Women view key sexual behaviours as the trigger for the onset and recurrence of bacterial vaginosis

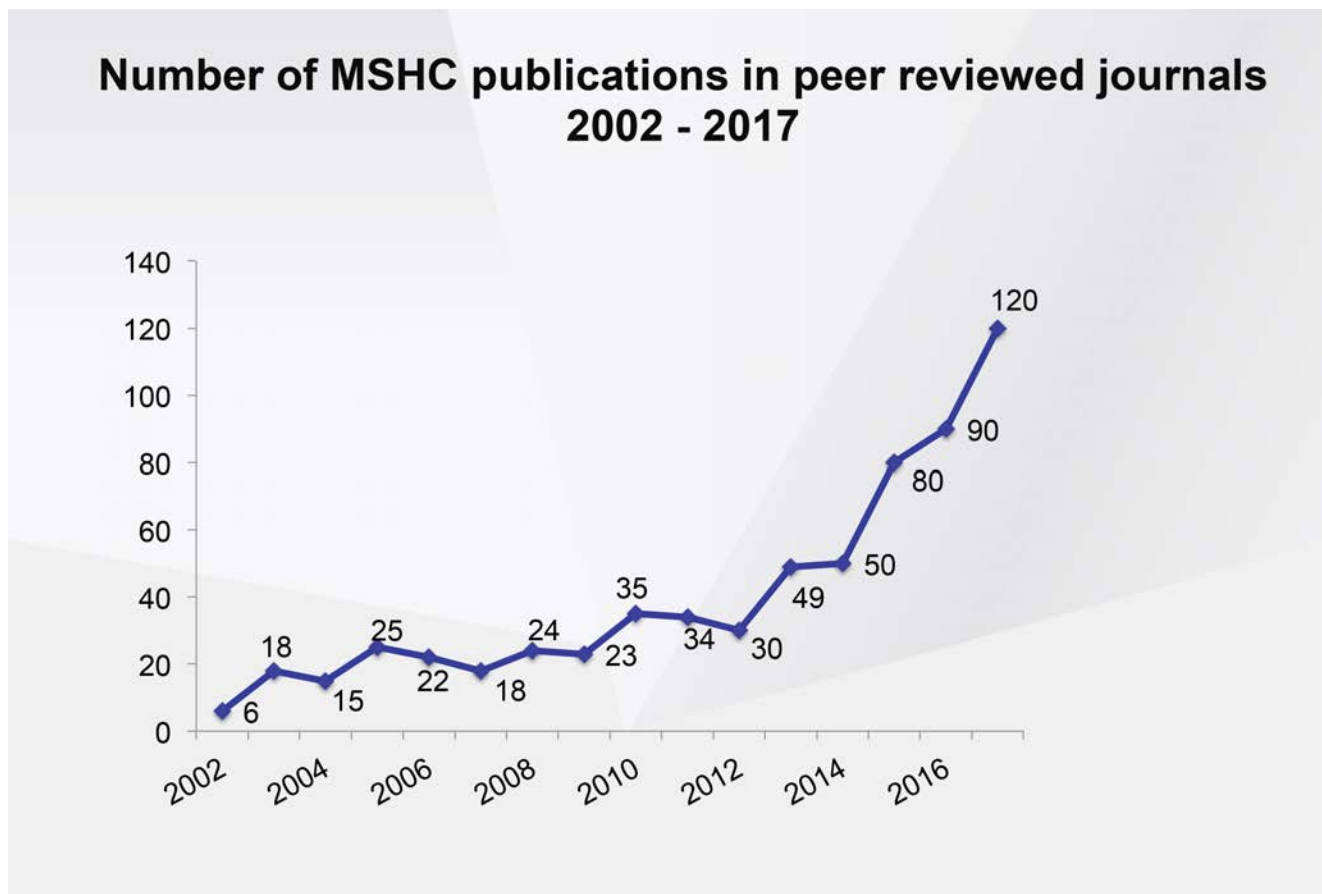
Researchers: Bilardi, JE, Walker, S, Bellhouse, Temple-Smith, M., C, McNair, R., Mooney-Somers J, Vodstrcil L., Fairley CK., Bradshaw C

Publication: PLoS ONE 2017; 12(3): e0173637.doi:10.1371/journal.pone.0173637

Summary: Women who previously had bacterial vaginosis completed a questionnaire about their experience of BV. Women reported that the onset and reoccurrence of BV was triggered by sexual activity rather than other lifestyle factors. The top 3 factors women attributed to both BV onset and recurrence were: 1) unprotected sex; 2) sex with a new male partner; and 3) sex in general. While many women felt BV was sexually transmitted and supported partner treatment, they did not consider BV an STI

Figure 9 Number of publications over time

The number of publications in peer reviewed journals steadily increased from 6 in 2002 to 30 in 2012, and then significant increases were achieved from 49 in 2013; 50 in 2014; 80 in 2015; 90 in 2016 and 120 in 2017.



PUBLICATIONS

1. Chow EPF, Machalek DA, Tabrizi SN, Danielewski JA, Fehler G, Bradshaw CS, Garland SM, Chen MY, Fairley CK. Quadrivalent vaccine-targeted human papillomavirus genotypes in heterosexual men after the Australian female human papillomavirus vaccination programme: a retrospective observational study. *Lancet Infectious Disease* 2017; 17(1): 68-77 doi:10.1016/S1473-3099(16)30116-5
2. Fairley CK, Hocking JS, Zhang L, Chow EPF. Frequent transmission of gonorrhoea in men who have sex with men; why it is common. *Emerging Infectious Disease* 2017; 23(1): 102-104 doi: 10.3201/eid2301.161205
3. Cornelisse V, Sherman C, Hocking JS, Williams H, Zhang L, Chen MY, Bradshaw CS, Bellhouse C, Fairley CK, Chow EPF. Concordance of chlamydia infections of the rectum and urethra in same-sex male partnerships: A cross-sectional analysis. *BMC Infectious Diseases* 2017; 17:22 doi: 10.1186/s12879-016-2141-7
4. Cornelisse VJ, Chow EPF, Huffam S, Fairley CK, Bissessor M, De Petra V, Howden BP, Denham I, Bradshaw CS, Williamson D, Chen MY. Increased detection of pharyngeal and rectal gonorrhoea in men who have sex with men after transition from culture to nucleic acid amplification testing. *Sexually Transmitted Diseases* 2017; 44(2): 114-117 doi:10.1097/OLQ.0000000000000553
5. Ong JJ, Morton AN, Henzell HR, Berzins K, Druce, J, Fairley CK, Bradshaw CS, Read TRH, Hocking JS, Chen MY. Clinical characteristics of herpes simplex virus urethritis compared with chlamydial urethritis Among Men. *Sexually Transmitted Diseases* 2017; 44(2): 121-125 doi: 10.1097/OLQ.0000000000000547
6. Ong JJ, Sarumpaet A, Chow EPF, Bradshaw CS, Chen MY, Read TRH, Fairley CK. Should female partners of men with non-gonococcal urethritis, negative for *Chlamydia trachomatis* and *Mycoplasma genitalium*, be informed and treated? Clinical outcomes from a partner study of heterosexual men with NGU. *Sexually Transmitted Diseases* 2017; 44(2): 126-130 doi: 10.1097/OLQ.0000000000000546
7. Lau, A, Kong, F, Fairley CK, Donovan B, Chen M, Bradshaw C, Boyd M, Amin J, Tabrizi S, Regan DG, Lewis DA, McNulty A, Hocking JS. Treatment efficacy of azithromycin 1 g single dose versus doxycycline 100 mg twice daily for 7 days for the treatment of rectal chlamydia among men who have sex with men - a double-blind randomised controlled trial protocol. *BMC Inf Dis* 2017; 17(1): 35 doi: 10.1186/s12879-016-2125-7
8. Plummer EL, Garland SM, Bradshaw CS, Law MG, Vodstrcil LA, Hocking JS, Fairley CK, Tabrizi SN. Molecular diagnosis of bacterial vaginosis: does adjustment for total bacterial load or human cellular content improve diagnostic performance? *Journal of Microbiological Methods* 2017; 133: 66-68 doi:10.1016/j.mimet.2016.12.024
9. Machalek DA, Chow EPF, Garland SM, Wigan R, Cornall AM, Fairley CK, Kaldor JM, Hocking JS, Williams H, McNulty A, Bell C, Marshall L, Ooi C, Chen MY, Tabrizi SN. Human papillomavirus prevalence in unvaccinated heterosexual males following a national female vaccination program. *Journal of Infectious Diseases* 2017; 215(2): 202-208 doi:10.1093/infdis/jiw530
10. Fairley CK, Prestage G, Bernstein K, Mayer K, Gilbert M. 2020, sexually transmitted infections and HIV in gay bisexual and other men who have sex with men. *Sexual Health* 2017; 14(1): 1-4. doi:10.1071/SH16220

11. Fairley CK, Zou H, Zhang L, Chow EPF. Human papillomavirus in men who have sex with men – what will be required by 2020 for the same dramatic changes seen in heterosexuals. *Sexual Health* 2017; 14(1): 123-125. doi:10.1071/SH16067
12. Medland NA, Chow EPF, Bradshaw CS, Read THR, Sasadeusz JJ, Fairley CK. Predictors and incidence of sexually transmitted Hepatitis C virus infection in HIV positive men who have sex with men. *BMC Infectious Diseases* 2017; 17:185 doi:10.1186/s12879-017-2288-x
13. Bilardi J, Walker S, Temple-Smith M, McNair R, Mooney-Somers J, Vodstrcil L, Bellhouse C, Fairley CK, Bradshaw CS. Women view key sexual behaviours as the trigger for the onset and recurrence of bacterial vaginosis. *PLoS One* 2017; 12(3):e0173637 doi:10.1371/journal.pone.0173637
14. Vodstrcil LA, Twin J, Garland SM, Fairley CK, Hocking JS, Law MG, Plummer EL, Fethers KA, Chow EPF, Tabrizi SN, Bradshaw CS. The influence of sexual activity on the vagina microbiota and *Gardnerella vaginalis* clade diversity in young women. *PLoS ONE* 2017; 12(2): e0171856. doi:10.1371/journal.pone.0171856
15. Poynten M, Tabrizi SN, Jin F, Templeton DJ, Machalek DA, Cornall A, Phillips S, Fairley CK, Garland SM, Law C, Carr A, Hillman RJ, Grulich AE. Vaccine-preventable anal human papillomavirus in Australian gay and bisexual men. *Papillomavirus Research* 2017; 3: 80-84 doi:10.1016/j.pvr.2017.02.003
16. Ali H, McManus H, O'Connor C, Callander D, Kong M, Graham S, Saulo D, Fairley CK, Regan D, Grulich A, Low N, Guy R, Donovan B. Human papillomavirus vaccination associated with marked declines in genital warts among young Aboriginal people in Australia: national sentinel surveillance data. *MJA* 2017; 206(5): 205-209 doi:10.5694/mja16.00597
17. Chow EPF, Cornelisse VJ, Read TRH, Lee D, Walker S, Hocking JS, Chen MY, Bradshaw CS, Fairley CK. Saliva use as a lubricant for anal sex is a risk factor for rectal gonorrhoea among men who have sex with men, a new public health message: a cross-sectional survey. *Sexually Transmitted Infections* 2017; 92(7): 532 - 536 doi:10.1136/sextrans-2015-052502
18. Kong FYS, Rupasinghe TW, Simpson JA, Vodstrcil LA, Fairley CK, McConville MJ, Hocking JS. Pharmacokinetics of a single 1g dose of azithromycin in rectal tissue in men. *PLoS One* 2017; 12(3):e0174372 doi:10.1371/journal.pone.0174372
19. Leeyaphan C, Ong JJ, Chow EPF, Dimovski K, Kong FYS, Hocking JS, Howden B, Bissessor M, Fairley CK, Bradshaw CS, Read TRH, Chen MY. Treatment outcomes for rectal lymphogranuloma venereum in men who have sex with men using doxycycline, azithromycin or both: a review of clinical cases. *Sexually Transmitted Diseases* 2017; 44(4): 245-248 doi:10.1097/OLQ.0000000000000578
20. Gilbert M, Salway T, Haag D, Fairley CK, Wong J, Grennan T, Uddin Z, Cuchner C, Wong T, Krajde M, Tyndall M, Shoveller J, Ogilvie G. Use of GetCheckedOnline, a comprehensive web-based testing service for sexually transmitted and blood-borne infections. *Journal of Medical Internet Research* 2017; 19(3):e81 doi:10.2196/jmir.7097
21. Li B, Bi P, Ward A, Bell C, Fairley CK. Trends and predictors of recent HIV testing over 22 years among a clinic sample of men who have sex with men in South Australia. *Sexual Health* 2017; 14(2): 164-169 doi:10.1071/SH16091
22. Jamil M, Bavinton B, Fairley CK, Grulich AE, Holt M, Smith K, Chen MY, McNulty A, Conway D, Keen P, Bradley J, Russell D, Kaldor J. HIV testing self-efficacy is associated with higher HIV testing frequency and perceived likelihood to self-test among gay and bisexual men. *Sexual Health* 2017; 14(2): 170-178 doi: 10.1071/SH16100
23. Templeton DJ, Roberts JM, Poynten IM, Law C, Hillman RJ, Farnsworth A, Fairley CK, Tabrizi SN, Garland SM, Grulich AE, Jin F. Prevalence and predictors of unsatisfactory anal cytology tests in a cohort of gay and bisexual men in Sydney, Australia: baseline findings from the Study of the Prevention of Anal Cancer (SPANAC). *European Journal of Cancer Prevention* 2017; 26(3): 212-216 doi: 10.1097/CEJ.0000000000000321

24. Medland NA, Chow EPF, McMahon JH, Elliott JH, Hoy JF, Fairley CK. Time form HIV diagnosis to commencement of antiretroviral therapy as an indicator to supplement the HIV cascade: Dramatic fall from 2011 to 2015. *PLoS One*. 2017. 12(5): e0177634 doi: 10.1371/journal.pone.0177634
25. Vodstrcil LA, Rupasinghe TWT, Kong KYS, Tull D, Worthington K, Chen MY, Huston WM, Timms P, McConville MJ, Fairley CK, Bradshaw CS, Tabrizi SN, Hocking JS. Measurement of tissue azithromycin levels in self-collected vaginal swabs post treatment using liquid chromatography and tandem mass spectrometry (LC-MS/MS). *PLoS One* 2017; 12(5): e0177615 doi:10.1371/journal.pone.0177615
26. Jin F, Roberts JM, Poynten IM, Machalek DA, Cornall A, Phillips S, Ekman D, McDonald RL, Hillman RJ, Templeton DJ, Farnsworth A, Garland SM, Fairley CK, Tabrizi SN. The performance of human papillomavirus biomarkers in predicting anal high-grade squamous intraepithelial lesions in gay and bisexual men. *AIDS* 2017; 31(9): 1303-1311 doi:10.1097/QAD.0000000000001462
27. Wilkinson AL, El-Hayek CE, Fairley CK, Roth N, Tee BK, McBryde E, Hellard M, Stoové M. Measuring transitions in sexual risk among men who have sex with men: The novel use of latent class and latent transition analysis in HIV sentinel surveillance. *American Journal of Epidemiology*. 2017. 185(8): 627-635 doi:10.1093/aje/kww239
28. Read TRH, Fairley CK, Tabrizi SN, Bissessor M, Vodstrcil L, Chow EPF, Grant M, Danielewski J, Garland SM, Hocking JS, Chen MY, Bradshaw CS. Azithromycin 1.5g over five days compared to 1g single dose in urethral *Mycoplasma genitalium*: impact on treatment outcome and resistance. *Clinical Infectious Diseases* 2017; 64(3): 250-256. doi:10.1093/cid/ciw719
29. Murray GL, Bradshaw CS, Bissessor M, Danielewski J, Garland SM, Jensen J, Fairley CK, Tabrizi SN. Increasing macrolide and fluoroquinolone resistance in *Mycoplasma genitalium*. *Emerging Infectious Diseases* 2017; 23(5): 809-812. doi:10.3201/eid2305.161745
30. Jamil MS, Prestage G, Fairley CK, Grulich AE, Smith KS, Chen MY, Holt M, McNulty A, Bavington BR, Conway DP, Wand H, Keen P, Bradley J, Kolstee J, Batrouney C, Russell D, Law M, Kaldor JM, Guy RJ. Effect of availability of HIV self-testing on HIV testing frequency among gay and bisexual men at higher risk of infection: a wait-list randomised controlled trial (FORTH). *Lancet HIV* 2017; 6(4):e241-250 doi:10.1016/S2352-3018(17)30023-1
31. Smith KS, Guy R, Danielewski J, Tabrizi SN, Fairley CK, McNulty AM, Rawlinson W, Saville M, Garland SM, Donovan B, Kaldor JM, Hocking JS. Biological and behavioural factors associated with positive chlamydia retests. *Sexually Transmitted Diseases* 2017; 44(7): 417- 422 doi: 10.1097/OLQ.0000000000000616
32. Chow EPF, Walker S, Hocking JS, Bradshaw CS, Chen MY, Tabrizi SN, Howden BP, Law MG, Maddaford K, Read TRH, Lewis DA, Whiley DM, Zhang L, Grulich AE, Kaldor JM, Cornelisse VJ, Phillips S, Donovan B, McNulty AM, Templeton DJ, Roth N, Moore R, Fairley CK. A multicentre double-blind randomised controlled trial evaluating the efficacy of daily use of antibacterial mouthwash against oropharyngeal gonorrhoea among men who have sex with men: the OMEGA (Oral Mouthwash use to Eradicate GonorrhoeA) study protocol. *BMC Infectious Diseases* 2017; 17(1):456. doi:10.1186/s12879-017-2541-3
33. Wentzensen N, Arbyn M, Berkhof H, Bower M, Canfell K, Einstein M, Fairley CK, Monsonego J, Franceschi S. Eurogin 2016 Roadmap: How HPV knowledge is changing screening practice. *International Journal of Cancer* 2017; 140(10):2192-2200 doi:10.1002/ijc.30579
34. Danielewski J, Phillips S, Kong FYS, Smith KS, Hocking JS, Guy R, Fairley CK, Garland SM, Tabrizi SN. A snapshot of Chlamydia trachomatis genetic diversity using multilocus sequence type analysis in an Australian metropolitan setting. *European Journal of Clinical Microbiology & Infectious Diseases* 2017; 36(7):1297-1303 doi:10.1007/s10096-017-2935-6

35. Tomnay JE, Hulme-Chambers A, Bilardi JE, Fairley CK, Huffam S, Chen MY. A qualitative study of means to improve partner notification following an HIV diagnosis among men who have sex with men in Australia. *AIDS Patient Care and STDs* 2017; 31(6):269-274 doi:10.1089/apc.2017.0080
36. Ong JJ, Henzell H, Doyle L, Fairley CK. The intrauterine contraceptive device is where? An unexpected cause of intravesical IUCD. *Australian Family Physician* 2017; 46(7):479-480
37. Chow EPF, Callander D, Fairley CK, Zhang L, Donovan B, Guy R, Lewis DA, Hellard M, Read P, Ward A, Chen MY. Increased syphilis testing of men who have sex with men: greater detection of asymptomatic early syphilis and relative reduction in secondary syphilis. *Clinical Infectious Diseases* 2017; 65(3): 389-395 doi: 10.1093/cid/cix326
38. Unemo M, Bradshaw CS, Hocking JS, de Vries HJC, Francis SC, Mabey D, Marrasso JM, Sonder GJB, Schwebke JR, Hoornenborg E, Peeling RW, Philip SS, Low N, Fairley CK. Sexually transmitted infections: challenges ahead. *The Lancet Infectious Diseases* 2017; 17(8): e235–e279 doi:10.1016/S1473-3099(17)30310-9
39. Tabrizi SN, Su J, Bradshaw CS, Fairley CK, Walker S, Tan LY, Mokany E, Garland SM. Prospective evaluation of ResistancePlus™ MG, a new multiplex qPCR assay for the detection of *Mycoplasma genitalium* and macrolide resistance. *Journal of Clinical Microbiology* 2017; 55(6): 1915-1919 doi:10.1128/JCM.02312-16
40. Ong JJ, Towns J, Chen MY, Fairley CK. Occult syphilitic chancres in the rectum and oropharynx. *Australian Family Physician* 2017; 46(9): 673-675
41. Chow EPF, Fairley CK. Could antiseptic mouthwash inhibit pharyngeal *Neisseria gonorrhoeae*? Further research is required. *Sexually Transmitted Infection (Letter)* 2017; 93(6): 403. doi:10.1136/sextrans-2017-053139
42. Ong JJ, Fethers K, Howden BP, Fairley CK, Chow EPF, Williamson DA, Petalotis I, Aung E, Kanhutu K, De Petra V, Chen MY. Asymptomatic and symptomatic urethral gonorrhoea in men who have sex with men attending a sexual health service. *Clinical Microbiology and Infection* 2017; 23(8): 555-559. doi.10.1016/j.cmi.2017.02.020
43. Ampt FH, El Hayek C, Agius PA, Bowring AL, Bartnik N, Van Gemert C, Fairley CK, Chow EPF, Bradshaw CS, Stephens N, Lim MSC, Hellard ME. Anorectal swabs as a marker of male-to-male sexual exposure in STI surveillance systems. *Epidemiology & Infection* 2017; 145(12):2530-2535 doi:10.1017/S095026881700098X
44. Chow EPF, Walker S, Read TRH, Chen MY, Bradshaw CS, Fairley CK. Self-reported use of mouthwash and pharyngeal gonorrhoea detection by nucleic acid amplification test. *Sexually Transmitted Diseases* 2017; 44(10):593-595 doi:10.1097/OLQ.0000000000000654
45. Zhang L, Regan DG, Gambhir M, Cornelisse V, Grulich AG, Ong JJ, Lewis DA, Hocking J, Fairley CK. *Neisseria gonorrhoeae* transmission among men who have sex with men: an anatomical site-specific mathematical model evaluating the potential preventive impact of mouthwash. *Sexually Transmitted Disease* 2017; 44(10):586-592. doi:10.1097/OLQ.0000000000000661
46. Whiley DM, Trebizki E, Buckle C, Freeman K, Baird RW, Beaman M, Chen MY, Donovan B, Kundu RL, Fairley CK, Guy R, Hogan T, Kaldor JM, Karimi M, Limnios A, Regan DG, Ryder N, Su JY, Ward J, Lahra MM. Molecular antimicrobial resistance surveillance for *Neisseria gonorrhoeae* in practice. *Emerging Infectious Diseases* 2017; 23(9):1478-1485. doi: 10.3201/eid2309.170427
47. Zhang L, Regan DG, Ong JJ, Gambhir M, Chow EPF, Zou H, Matthew L, Hocking J, Fairley CK. Targeted human papillomavirus vaccination for young men who have sex with men in Australia yields significant population benefits and is cost-effective. *Vaccine* 2017; 35(37):4923-4929. doi: 10.1016/j.vaccine.2017.07.078

48. Huffam S, Chow EPF, Leeyaphan C, Fairley CK, Hocking JS, Phillips S, Tabrizi SN, Bellhouse C, Bradshaw CS, Fehler G, Garland SM, Chen MY. Chlamydia infection between men and women: a cross sectional study of heterosexual partnerships. *Open Forum Infectious Diseases* 2017; 4(3): ofx160 doi: 10.1093/ofid/ofx160
49. Priest D, Ong JJ, Chow EPF, Tabrizi S, Phillips S, Bissessor M, Fairley CK, Bradshaw CS, Read TRH, Garland SM, Chen MY. *Neisseria gonorrhoeae* DNA bacterial load in men with symptomatic and asymptomatic gonococcal urethritis. *Sexually Transmitted Infections* 2017; 93(7): 478-481 doi: 10.1136/sextrans-2016-052950
50. Chow EP, Walker S, Phillips T, Fairley CK. Willingness to change behaviours to reduce the risk of pharyngeal gonorrhoea transmission and acquisition in men who have sex with men: a cross-sectional survey. *Sexually Transmitted Infection* 2017; 93(7): 499-502. doi:10.1136/sextrans-2017-053148
51. Ong JJ, Peng M, Zhu S, Lo YRJ, Fairley CK, Kidd MR, Roland M, Jiang S, Wong WCW. Opportunities and barriers to STI testing in community health centres in China: a nationwide survey. *Sexually Transmitted Infections* 2017; 93(8): 566-571 doi: 10.1136/sextrans-2017-053196
52. Slifirski JB, Vodstrcil LA, Fairley CK, Ong JJ, Chow EPF, Chen MY, Read TRH, Bradshaw CS. *Mycoplasma genitalium* infection in males and females reporting sexual contact with infected partners. *Emerging Infectious Diseases* 2017; 23(11): 1826-1833. doi:10.3201/eid2311.170998
53. Chow EPF, Wigan R, McNulty A, Bell C, Johnson M, Marshall L, Regan DG, Owen L, Brotherton JML, Bradshaw CS, Fairley CK, Russell D, Chen MY. Early sexual experiences of teenage heterosexual males in Australia: a cross sectional survey. *BMJ Open* 2017; 7(10): e016779. doi: 10.1136/bmjopen-2017-016779
54. Cornelisse VJ, Jones RA, Fairley CK, Grover SR. The medical care of the neovagina of transgender women - a review. *Sexual Health* 2017; 14(5): 442-450 doi:10.1071/SH17044
55. Medland NA, Nicholson S, Chow EPF, Read THR, Bradshaw CS, Denham I, Fairley CK. Time from HIV infection to virological suppression: dramatic fall from 2007 to 2016. *AIDS* 2017; 31(17): 2377-2385 doi: 10.1097/QAD.0000000000001634
56. Jasek E, Chow EPF, Ong JJ, Bradshaw CS, Chen MY, Hocking JS, Lee D, Phillips T, Temple-Smith M, Fehler G, Fairley CK. Sexually transmitted Infections in Melbourne, Australia from 1918 to 2016: nearly a century of data. *Communicable Diseases Intelligence* 2017; 41(3): E212-E222
57. Su JP, Tan LY, Garland SM, Tabrizi SN, Mokany E, Walker S, Bradshaw CS, Read T, Murray GL. Evaluation of the SpeedX ResistancePlus MG Diagnostic Test for *Mycoplasma genitalium* on the Applied Biosystems 7500 Fast Quantitative PCR Platform. *J Clin Microbiol* 2017; 56(1) pii: e01245-17. doi: 10.1128/JCM.01245-17
58. Zou H, Zhang L, Chow EPF, Tang W, Wang Z. Testing for HIV/STIs in China: Challenges, Opportunities, and Innovations. *BioMed Research International*. 2017; 2545840: 1-3. doi: 10.1155/2017/2545840
59. Wilkinson AL, McNamee K, El-Hayek C, Chow EPF, Bradshaw CS, Roth N, Tee BK, Stoové M, Hellard M. Utility of risk-based chlamydia testing in primary care: analysis of retrospective surveillance data among women in Melbourne, Australia. *Sexual Health*. 2017; 14(3): 268-273. doi: 10.1071/SH16202
60. Callander D, Read P, Prestage G, Minichiello V, Chow EPF, Lewis DA, McNulty A, Ali H, Hellard M, Guy R, Donovan B. A cross-sectional study of HIV and STIs among male sex workers attending Australian sexual health clinics. *Sexually Transmitted Infections* 2017; 93(4): 299-302. doi: 10.1136/sextrans-2016-052578

61. Purnomo J, Coote K, Mao L, Fan L, Gold J, Ahmad R, Zhang L. Using eHealth to engage and retain priority populations in the HIV treatment and care cascade in the Asia-Pacific region: a systematic review of literature. *BMC Infectious Diseases* 2018; 18(1): 82
62. Yang H, Xiao L, Zhang L, S. Deepal, Ye G and Zhang X. "Epidemic trend of periodontal disease in elderly Chinese population, 1987–2015: a systematic review and meta-analysis." *Scientific Reports* 2017; 7: 45000 doi: 10.1038/srep45000
63. Xu X, Zuo H, Shi Z, Rao Y, Wang L, Zeng H, Zhang L, Sharma M, Reis C, and Zhao Y. Determinants of second pregnancy among pregnant women: a hospital-based cross-sectional survey in China. *BMJ Open* 2017; 7 7:e014544. doi:10.1136/bmjopen-2016-014544
64. Yap L, Shu S, Zhang L, et al. Psychological distress among re-education through labour camp detainees in Guangxi Autonomous Region, China. *Journal of mental health (Abingdon, England)* 2017; 26(1): 57-65.
65. Boettiger D, Law M, Dore G, Guy R, Callander D, Donovan B, O'Connor C, Fairley CK, Hellard M, Matthews G. Hepatitis C testing and re-testing among people attending sexual health services in Australia, and Hepatitis C incidence among people with Human Immunodeficiency Virus: Analysis of national sentinel surveillance data. *BMC Infectious Diseases* 2017; 17:740 doi:10.1186/s12879-017-2848-0
66. Lal L, Audsley J, Murphy D, Fairley CK, Stoope M, Roth N, Moore R, Tee BK, Puratmaja N, Anderson PL, Leslie D, Grant RM, De Wit J, Wright E. Medication adherence, condom use and sexually transmitted infections in Australian PrEP users: interim results from the Victorian PrEP Demonstration Project. *AIDS* 2017; 31(12): 1709-1714 doi:10.1097/QAD.0000000000001519
67. Callander D, McManus H, Guy R, Hellard M, O'Connor CC, Fairley CK, Chow EPF, McNulty A, Lewis DA, Carmody C, Schmidt HMA, Kim J, Donovan B. Rising chlamydia and gonorrhoea incidence and associated risk factors among female sex workers in Australia: a retrospective cohort study. *Sexually Transmitted Diseases* 2018; 45(3): 199-206 doi: 10.1097/OLQ.0000000000000714
68. Ong JJ, Chow EPF, De Petra V, Williamson D, Petalotis I, Howden B, Zhang L, Chen MY, Bradshaw CS, Hocking JS, Fairley CK. Should asymptomatic men who have sex with men be screened for oropharyngeal chlamydia? Clinical outcomes from a cross-sectional study. *Sexually Transmitted Diseases* 2018; 45(2): 103-106 doi: 10.1097/OLQ.0000000000000718
69. Drolet M, Laprise JF, Brotherton JKL, Donovan B, Fairley CK, Ali H, Benard E, Martin D, Brisson M. The impact of human papillomavirus catch-up vaccination in Australia: Implications for introduction of multiple age cohort vaccination and post-vaccination data interpretation. *Journal of Infectious Diseases* 2017; 216(10): 1205-1209 doi:10.1093/infdis/jix476
70. Tachedjian G, Aldunate M, Bradshaw CS, Cone RA. The role of lactic acid production by probiotic *Lactobacillus* species in vaginal health. *Res Microbiol* 2017; 168(9-10): 782-792. doi: 10.1016/j.resmic.2017.04.001
71. McAllister J, Towns JM, McNulty A, Pierce AB, Foster R, Richardson R, Carr A. Dolutegravir with tenofovir disoproxil fumarate – emtricitabine as HIV post-exposure prophylaxis in gay and bisexual men. *AIDS* 2017; 31(9):1291-1295 doi:10.1097/QAD.0000000000001447
72. Kent SJ, Chung AW. A Role for Fc-mediated humoral immunity in reducing HIV transmission rates between HIV serodiscordant heterosexual couples. *EBiomedicine* 2017; 26: 2-3
73. Vanderven HA, Jegaskanda S, Wines BD, Hogarth PM, Carmuglia S, Rockman S, Chung AW, Kent SJ. Antibody dependent cellular cytotoxicity immune responses to seasonal influenza vaccination in the elderly. *Journal of Infectious Diseases* 2017; 217: 12-23

74. Cromer D, Pinkevych M, Rasmussen T, Lewin S, Kent SJ, Davenport MP. Modelling of anti-latency treatment in HIV; What is the optimal duration of anti-retroviral-free HIV remission? *J Virol* 2017; 91(24): e01395-17
75. Ana-Sosa-Batiz F, Johnston APR, Hogarth PM, Wines BD, Barr I, Wheatley AK, Kent SJ. Antibody-dependent phagocytosis (ADP) responses following trivalent inactivated influenza vaccination of younger and older adults. *Vaccine* 2017; 35: 6451-6458
76. Song D, Cui J, Sun H, Nguyen TH, Alcantara S, De Rose R, Kent SJ, Porter CJH, Caruso F. Templated polymer replica nanoparticles to facilitate assessment of material-dependent pharmacokinetics and biodistribution. *ACS Applied Materials and Interfaces*. 2017; 9: 33683-33694
77. Tan HX, Wheatley AK, Glass JJ, Masopust D, De Rose R, Kent SJ. Induction of vaginal resident HIV-specific CD8 T-cells with mucosal prime-boost immunisation. *Mucosal Immunology* 2017; doi:10.1038/mi.2017.89
78. Lloyd SB, Niven KP, Kiefel BR, Montefiori DC, Reynaldi A, Davenport MP, Kent SJ, Winnall WR. Exploration of broadly neutralizing antibody fragments produced in bacteria for the control of HIV. *Human Vaccines and Immunotherapeutics* 2017; 13(11): 2726-2737
79. Madhavi V, Wines BD, Amin J, Emery S, ENCORE1 Study Group, Lopez E, Kelleher A, Sydney LTNP Study Group, Center RG, Hogarth PM, Chung AW, Kent SJ, Stratov I. HIV-1 Env- and Vpu-specific antibody-dependent cellular cytotoxicity responses associated with elite control of HIV. *J Virology* 2017; 91(18): 1-16
80. Lee WS, Kristensen AB, Rasmussen TA, Tolstrup M, Østergaard L, Søgaard OS, Wines BD, Hogarth PM, Reynaldi A, Davenport M, Emery S, Amin J, Cooper DA, Kan V, Fox J, Grüll H, Parsons MS, Kent SJ. Anti-HIV-1 ADCC antibodies following latency reversal and treatment interruption. *Journal of Virology* 2017; 91: e00603
81. Vandervén HA, Liu L, Ana-Sosa-Batiz F, Nguyen TH, Wan Y, Wines B, Hogarth PM, Tilmanis D, Reynaldi A, Parsons MS, Hurt AC, Davenport MP, Kotsimbos T, Cheng AC, Kedzierska K, Zhang X, Xu J, Kent SJ. Fc functional antibodies during severe human H7N9 and seasonal influenza. *JCI Insight* 2017; 2: e92750
82. Mclean MR, Madhavi V, Wines BD, Hogarth PM, Chung A, Kent SJ. Dimeric Fcγ receptor ELISA to study HIV-specific antibodies: a new look into breadth of Fcγ receptor antibodies induced by the RV144 vaccine trial. *The Journal of Immunology* 2017; 199: 816-26
83. Glass JJ, Chen L, Alcantara S, Crampin EJ, Thurecht KJ, De Rose R, Kent SJ. Charge has a marked influence on hyperbranched polymer nanoparticle association in whole human blood. *ACS Macro Letters* 2017; 6: 586-592
84. Parsons MS, Lloyd SB, Lee WS, Kristensen AB, Amarasena T, Center RJ, Keele BF, Lifson JD, LaBranche CC, Montefiori D, Wines BD, Hogarth PM, Swiderek KM, Venturi V, Davenport MP, Kent SJ. Partial efficacy of a broadly neutralizing antibody against cell-associated SHIV infection. *Science Translational Medicine* 2017; 09 Aug; 9(402): eaaf1483 DOI: 10.1126/scitranslmed.aaf1483
85. Kratochvil S, McKay PF, Kopycinski JT, Bishop C, Hayes PJ, Muir L, Pinder CL, Cizmeci D, King D, Aldon Y, Wines BD, Hogarth M, Chung AW, Kent SJ, Held K, Geldmacher C, Dally L, Santos NS, Cole T, Gilmour J, Fidler S, Shattock RJ. A Phase I HIV vaccine trial for cross-profiling the kinetics of serum and mucosal antibody responses to CN54gp140 modulated by two homologous prime-boost vaccine regimens. *Frontiers in Immunology* 2017; 8: 595
86. Jegaskanda S, Vandervén HA, Wheatley AK, Kent SJ. Fc or not Fc; that is the question: Antibody Fc-receptor interactions are key to universal influenza vaccine design. *Human Vaccines and Immunotherapeutics* 2017; ePub: 1-9
87. Rasmussen TA, McMahon J, Chang JJ, Symons J, Roche M, Dantanarayana A, Okoye A, Hiener B, Palmer S, Lee WS, Kent SJ, Van Der Weyden C, Prince HM, Cameron PU,

- Lewin SR. Impact of alemtuzumab on HIV persistence in an HIV-infected individual on antiretroviral therapy with Sezary syndrome. *AIDS* 2017; 31: 1839-45
88. Zaunders J, Xu Y, Kent SJ, Koelsch KK, Kelleher AD. Divergent expression of CXCR5 and CCR5 on CD4+ T cells and the paradoxical accumulation of T follicular helper cells during HIV infection. *Frontiers in Immunology* 2017; 8: Article 495
 89. Rockman S, Lowther S, Camuglia S, Vandenberg K, Taylor S, Fabri L, Miescher S, Pearse M, Middleton D, Kent SJ, Maher D. Intravenous immunoglobulin protects against severe pandemic influenza infection. *EBioMedicine* 2017; 19: 119-27
 90. Glass JJ, Li Y, De Rose R, Johnston A, Czuba E, Khor SY, Quinn J, Whittaker M, Davis T, Kent SJ. Thiol-Reactive Star Polymers display enhanced association with distinct human blood components. *ACS Applied Materials & Interfaces* 2017; 9: 12182-94
 91. Wines BD, Billings H, Mclean MR, Kent SJ, Hogarth PM. HIV-specific ADCC - new technologies to study ADCC and importance for the HIV vaccine field. *Current HIV Research* 2017; 15: 202-215
 92. Kent SJ. HIV Vaccine Approaches. In: eLS. John Wiley & Sons, Ltd: Chichester. DOI: 10.1002/9780470015902.a0021550.pub3
 93. Madhavi V, Kulkarni A, Shete A, Lee WS, Mclean MR, Kristensen AB, Ghate M, Wines BD, Hogarth PM, Parsons MS, Kelleher AD, Cooper DA, Amin J, Emery S, Thakar M, Kent SJ. Effect of combination antiretroviral therapy on HIV-1-specific antibody-dependent cellular cytotoxicity responses in subtype B- and subtype C-infected cohorts. *J AIDS* 2017; 75: 345-353
 94. Kent SJ, Kelleher AD. Expanding role for Type I Interferons in restricting HIV growth. *Immunology and Cell Biology* 2017; 95: 417-18
 95. Petravic J, Rasmussen TA, Lewin SR, Kent SJ, Davenport MP. Relationship between measures of HIV reactivation and the decline of latent reservoir under latency-reversing agents. *J Virol* 2017; 91: e02092-16
 96. Xu Y, Phetsouphanh C, Suzuki K, Aggarwal A, Graff-Dubois S, Roche M, Bailey M, Alcantara S, Flanagan S, Cash K, Siva R, Koelsch KK, Autran B, Harvey R, Gorry PR, Moris A, Cooper DA, Turville S, Kent SJ, Kelleher AD, Zaunders J. HIV-1 and SIV predominantly use CCR5 expressed on a precursor population to establish infection in T follicular helper cells. *Frontiers in Immunology* 2017; 8:
 97. Juno JA, van Bockel D, Kent SJ, Kelleher AD, Zaunders JJ, Munier CM. Cytotoxic CD4 T cells - friend or foe during viral infection? *Frontiers in Immunology* 2017; 8: Article 19
 98. Gause KT, Wheatley AK, Cui J, Yan Y, Kent SJ, Caruso F. Immunological principles guiding the rational design of particles for vaccine delivery. *ACS Nano* 2017; 11: 54-68
 99. Kulkarni A, Kurle S, Shete A, Ghate M, Godbole S, Madhavi V, Kent SJ, Paranjape R, Thakar M. Indian long-term non-progressors show broad ADCC responses with preferential recognition of V3 region of Envelope and a region of Tat protein. *Frontiers in Immunology* 2017; 8: 5
 100. Vandervan HA, Jegaskanda S, Wheatley AK, Kent SJ. Antibody dependent cellular cytotoxicity and influenza virus. *Current Opinion in Virology* 2017; 22: 89-96
 101. Selva KJ, Kent SJ, Parsons MS. Modulation of innate and adaptive cellular immunity relevant to HIV-1 vaccine design by seminal plasma. *AIDS* 2017; 31: 333-42
 102. Ong D, Bhardwaj G, Ong J, Chen M, Lim LL. Keeping an eye on syphilis. *Australian Family Physician* 2017; 46(6): 401-4
 103. Chen M, Guy R. Increasing syphilis rates among men who have sex with men and screening to detect asymptomatic infection. *Sexual Health* 2017; 14(4): 301-3

104. Lahra MM, Trembizki E, Buckley C, Donovan B, Chen M, Guy R, Kundu RL, Regan DG, Whiley DM. Changes in the rates of *Neisseria gonorrhoeae* antimicrobial resistance are primarily driven by dynamic fluctuations in common gonococcal genotypes. *Journal of Antimicrobial Chemotherapy* 2017; 72(3): 705-11
105. Li, S., S. Su, S. Li, L. Gao, Y. Cai, J. Fu, C. Guo, W. Lu, F. Cheng, J. Jing, L. Chen and L. Zhang (2017). "A comparison of effectiveness between oral rapid testing and routine serum-based testing for HIV in an outpatient dental clinic in Yuxi Prefecture, China: a case-control study." *BMJ Open* 2017; 7(6):e014601. doi: 10.1136/bmjopen-2016-014601

Ahead of Print

1. Peng P, Su S, Fairley CK, Chu M, Jiang S, Zhuang X, Zhang L. A global estimate of the acceptability of pre-exposure prophylaxis for HIV among men who have sex with men: a systematic review and meta-analysis. *AIDS and Behavior* doi: 10.1007/s10461-017-1675-z
2. Bellhouse C, Walker S, Fairley CK, Chow EPF, Bilardi JE. Getting the terminology right in sexual health research – the importance of accurately classifying fuck buddies among men who have sex with men. *Sexually Transmitted Infections* doi:10.1136/sextrans-2016-053000
3. Medland NA, Chow EPF, Walker RG, Chen MY, Read THR, Fairley CK. Incidence of renal Fanconi syndrome in patients taking antiretroviral therapy including tenofovir disoproxil fumarate. *International Journal of STD & AIDS* 2018; 29(3): 227-236 doi: 10.1177/0956462417722133. Epub 2017 Aug 1
4. Chow EPF, Cornelisse VJ, Read TRH, Chen MY, Bradshaw CS, Fairley CK. Saliva use in sex: associations with use of smartphone dating applications in men who have sex with men. *International Journal of STD & AIDS* 2018; 29(4): 362-366 doi:10.1177/0956462417727669
5. Aung ET, Fairley CK, Tabrizi SN, Danielewski JA, Ong JJ, Chen MY, Bradshaw CS, Chow EPF. Detection of human papillomavirus in urine among heterosexual men in relation to location of genital warts and circumcision status. *Sexually Transmitted Infections* doi:10.1136/sextrans-2016-053031
6. Ong JJ, Fairley CK, Read TRH, Chen MY, Zhang L, Chow EPF. Age-specific pattern of anogenital wart in men who have sex with men. *Sexually Transmitted Diseases* 2018; 45(3): 186-188 doi: 10.1097/OLQ.0000000000000716
7. Li B, Hocking JS, Bi P, Bell C, Fairley CK. The efficacy of Azithromycin and Doxycycline treatment for rectal chlamydia infection: A retrospective cohort study in South Australia. *Internal Medicine Journal* 2018; 48(3):259-264 doi:10.1111/imj.13624
8. Yang TZT, Chen MY, Read TRH, Needleman R, Bradshaw CS, Fortune R, Fairley CK, Chow EPF. Sampling technique and detection rates of oropharyngeal and anorectal gonorrhoea using nucleic acid amplification tests in men who have sex with men. *Sexually Transmitted Infection* doi:10.1136/sextrans-2017-053339
9. Fairley CK, Zhang L, Chow EPF. New thinking on gonorrhoea control in men who have sex with men: are antiseptic mouthwashes the answer? *Current Opinion in Infectious Diseases* 2018; 31(1):45-49 doi. 10.1097/QCO.0000000000000421
10. Towns JM, Huffam S, Chow EPF, Denham I, Zhang L, Ryan A, Bellhouse CE, Bissessor M, Bradshaw CS, Phillips T, Graves S, Fairley CK, Chen MY. Clinical factors associated with syphilis concordance in men in sexual partnerships: a cross-sectional couples study. *Sexually Transmitted Infection* doi:10.1136/sextrans-2017-053297
11. Fairley CK, Chow EPF. Doxycycline post-exposure prophylaxis: let the debate begin. *Lancet Infectious Diseases* 2018; 18(3):233-234 doi. 10.1016/S1473-3099(17)30726-0

12. Kwong JC, Chow EPF, Stevens K, Stinear TP, Seemann T, Fairley CK, Chen MY, Howden BP. Whole-genome sequencing reveals transmission of gonococcal antibiotic resistance among men who have sex with men: an observational study. *Sexually Transmitted Infections* 2018; 94(2): 151-157 doi.10. 1136/sextrans- 2017- 053287.
13. Cornelisse VJ, Priest D, Fairley CK, Walker S, Bradshaw CS, Phillips T, Chow EPF. The frequency of kissing as part of sexual activity differs depending on how men meet their casual sexual partners. *International Journal of STD & AIDS*. doi: 10.1177/0956462417748717
14. Zhuang X, Peng P, Sun H, Chu, M, Jiang S, Jiang L, Zhou P, Zhu B & Zhang L. Scaling-up HIV screening and antiretroviral therapy among men who have sex with men to achieve the 90-90-90 targets in China. *Sexually Transmitted Diseases* 2017; doi: 10.1097/OLQ.0000000000000744
15. Chow EPF, Fairley CK, Callander D, Donovan B, Guy R, Chen MY. Increases in asymptomatic early syphilis may be due to increases in repeat syphilis and not enhanced screening. *Clinical Infectious Diseases* 2018; 65: 389-395 doi: 10.1093/cid/cix905

STAFF

The continuing successes enjoyed by MSHC hinge on the ongoing enthusiasm and dedication shown by its multidisciplinary team. The professionalism and commitment of all staff of MSHC is reflected in the Annual Client Surveys which have recorded overall satisfaction rates of approximately 97-99% since 2005 (see Annual Client Survey).

Staff Members

Administration and Computer Services

Afrizal	IT Systems and Support Officer
Suzanne Amisano	Operations Manager
Lucy Beaton	Patient Services Officer
Alison Clough	Patient Services Officer
Fleur Glenn	Patient Services Officer
David Johnston	Patient Services Officer
Jun Kit Sze	IT Systems, Support & Development Officer
Karen Kon	Patient Services Co-ordinator
Sharon Noronho	Patient Services Officer
Cecily Sheppard	Patient Services Officer
Maggie Vandeleur	Patient Services Officer
Wendy Zeng	Patient Services Officer

Other Support

Mark Chung	Multimedia Content Co-ordinator
Deanne de Silva	Purchasing and Resources Officer
Glenda Fehler	Clinical Project Manager
James Unger	Personal Assistant to Director
Lyn Zhang	Resource and Billing Officer

Clinical Services - Medical

Ei Aung	Doctor
Karen Berzins	Doctor
Melanie Bissessor	Doctor
Catriona Bradshaw	Doctor
Andrew Buchanan	Doctor
Marcus Chen	Doctor, Medical Unit Manager
Kathy Cook	Doctor
Ian Denham	Doctor
Christopher Fairley	Professor/Director
Kath Fethers	Doctor
Helen Henzell	Doctor
Sarah Huffam	Doctor
Kirsty McNab	Doctor
Alex Marceglia	Doctor
Nick Medland	Doctor
Anna Morton	Doctor
Tim Read	Doctor
Stephen Rowles	Doctor
Tina Schmidt	Doctor
Richard Teague	Doctor
Janet Towns	Doctor
Robin Tideman	Doctor
Hennie Williams	Doctor, Senior Lecturer

Clinical Services - Nursing

Surbhi Bird	Sexual Health Clinic Support Nurse
Caroline Cittarelli	Sexual Health Clinic Support Nurse
Penne Braybrook	Sexual Health Nurse
Suzanne Brown	Sexual Health Nurse
Lauren Bryar	Sexual Health Nurse
Beth Costelloe	Sexual Health Nurse
Sheranne Dobinson	Sexual Health Nurse
Michelle Doyle	Sexual Health Nurse
Jo Eccles	Sexual Health Nurse
Ria Fortune	Nursing Services Manager
Candice Fuller	Sexual Health Nurse
Shauna Hall	Sexual Health Nurse
Peter Hayes	Counsellor
Kerri Howley	Sexual Health Nurse
Lisa Kennedy	Sexual Health Nurse
Abby Knoester	Sexual Health Nurse
David Lee	Sexual Health Nurse Practitioner
Genevieve Lilley	Sexual Health Nurse
Luke Mitchell	Sexual Health Nurse
Colette Mc Guinness	Sexual Health Nurse
Lesley O'Donell	Sexual Health Nurse
Ian O'Meara	Sexual Health Nurse
Amy Peachey	Sexual Health Nurse
Susan Peterson	Sexual Health Nurse
Kate Potappel	Sexual Health Nurse
Anne Reid	Sexual Health Nurse
Suzanne Rose	Sexual Health Nurse
Carly Schreiber	Sexual Health Nurse
Anthony Snow	Sexual Health Nurse Practitioner
Mee Tan	Sexual Health Nurse
Haiping Tang	Sexual Health Nurse
Mark Thompson	Sexual Health Nurse
Jacinta Tierney	Sexual Health Nurse
Jocelyn Verry	Counsellor
Eloise Vicary	Sexual Health Nurse
Patricia Wakefield	Sexual Health Nurse/Clinical Nurse Co-ordinator
Leah Ward	Sexual Health Nurse
Rebecca Wigan	Sexual Health Nurse
Jordan Wotten	Sexual Health Nurse
Karen Worthington	Sexual Health Nurse

HIV Clinic

Jayne Howard	Clinical HIV Co-ordinator
Stephen Kent	Doctor
Richard Moore	Doctor
Joe Sasadeusz	Doctor
Ivan Stratov	Doctor
Jeanette Venkataya	Patient Services Officer

Evaluation Unit

Jade Bilardi	Postdoctoral Research Fellow
Eric Chow	Postdoctoral Research Fellow
Helen Kent	Research Nurse
Kate Maddeford	Research Nurse
Nick Medland	Doctor, PhD student
Erica Plummer	PhD scholar, Masters in Bioinformatics
Tiffany Phillips	Research Administration
Tiffany Rose	Research Nurse
David Samson	Research Nurse
Julie Silvers	Research Nurse
Lenka Vodstrcil	Postdoctoral Research Fellow
Sandra Walker	Postdoctoral Researcher
Rebecca Wigan	Research Nurse
Lei Zang	PhD, Master of Applied Mathematics

Laboratory

Vesna de Petra	Section Leader
Catherine Flower	Laboratory Scientist
Kate Paoli	Laboratory Scientist
Irene Kuzevski	Senior Laboratory Scientist
Kathy Petit	Laboratory Scientist
Marleen Tschaepe	Laboratory section support
Maree Soumilas	Laboratory Scientist

Pharmacy

Ivette Aguirre	Senior Clinical Pharmacist
----------------	----------------------------

Long service recognition for staff Members in 2015 and 2016

2017	No. of years	2017	No. of years
Surbhi Bird	15	Karen Kon	10
Caroline Cittarelli	10	David Lee	15
Kathy Cook	15	Kirsty McNab	20
Jo Eccles	10	Susan Peterson	10
Katherine Fethers	10	Tim Read	20
Ria Fortune	15	Cecily Sheppard	10
Kerri Howley	15	Ian O'Meara	10
Candice Fuller	10	Helen Henzell	20



