

INDUS JOURNAL OF BIOSCIENCE RESEARCH

https://induspublishers.com/IJBR Volume 1, Issue 2 (2023)



Original Article

Chemsex and HIV/AIDS: Strategies for Harm Reduction and Education

Muhammad Suleman ¹, Muhammad Ashraf ²

- ¹ Department of Health Science, University of GC Lhr.
- ² Department of Health Science, University of GC Lhr

ARTICLE INFO

Key Words:

- * Chemsex
- * Strategies
- * Reduction
- * transmission
- * HIV/AIDS
- * education

*Corresponding Author: Muhammad Suleman

ABSTRACT

Chemsex, the practice of using drugs in a sexual context, has gained prominence in recent years, particularly among men who have sex with men (MSM). This paper explores the complex relationship between chemsex and the transmission of HIV/AIDS. It delves into the sociocultural factors contributing to the rise of chemsex, the associated risks of HIV transmission, and the role of harm reduction and education in mitigating these risks. Drawing from existing research and case studies, this paper presents a comprehensive analysis of chemsex-related HIV/AIDS concerns and proposes evidence-based strategies for harm reduction and education.

INTRODUCTION:

1.1 Background

The intersection of substance use and sexual behavior, known as "chemsex," has emerged as a complex and multifaceted issue in recent years, especially among men who have sex with men (MSM). Chemsex involves the consumption of a range of substances, including methamphetamine, cocaine, GHB, and others, with the goal of enhancing sexual experiences, reducing inhibitions, and fostering a sense of intimacy. While the practice itself is not entirely new, its resurgence and increased prevalence in contemporary society have garnered significant attention. This paper aims comprehensively explore the intricate relationship between chemsex and HIV/AIDS, focusing on the various factors contributing to this issue and presenting strategies for harm reduction and education.

1.2 Objectives

This paper embarks on a multifaceted journey with the following objectives:

a) To examine the historical context and emergence of chemsex as a phenomenon.

The exploration of the roots of chemsex delves into its historical

origins, tracing its trajectory from earlier practices within LGBTQ+ communities to its current prominence, significantly fueled by the convergence of substance use and sexual behavior.

b) To analyze the socio-cultural factors that drive individuals to engage in chemsex.

Understanding the complex interplay of societal norms, minority stress, and dynamics is crucial comprehending why some individuals are drawn to chemsex as a coping mechanism or a means of seeking connection and pleasure.

c) To assess the relationship between chemsex and the transmission of HIV/AIDS.

This section critically examines the intricate connections between chemsex practices, high-risk sexual behaviors, and the increased vulnerability of participants to HIV infection, backed empirical data and research findings.

d) To explore the existing harm reduction and education efforts in chemsex-related addressing HIV/AIDS risks.

An in-depth analysis of current harm reduction and educational initiatives aims to provide insights into their strengths and weaknesses, offering a foundation for refining and expanding



these strategies.

e) To propose evidence-based strategies for enhancing harm reduction and education initiatives.

Drawing from existing research, best practices, and innovative approaches, this paper seeks to offer practical recommendations for improving harm reduction and education efforts, with the ultimate goal of mitigating the risks associated with chemsex-related HIV/AIDS transmission.

2. Historical Context and Emergence of Chemsex

2.1 The Roots of Chemsex

The historical evolution of chemsex reveals a tapestry of interconnected threads, weaving together the LGBTQ+ community's struggles for acceptance, changes in societal attitudes toward drugs and sexuality, the role of underground and subcultures. Examining these roots illuminates how chemsex has evolved into the phenomenon it is today.

The historical roots of chemsex can be traced back to the LGBTO+ community's history of seeking safe spaces and acceptance. LGBTQ+ individuals have often faced discrimination and ostracization, which led to the formation of underground communities and social networks. In these communities, chemsex served as

a way to connect, bond, and escape social from the pressures and discrimination they faced. Early instances of chemsex can be found in the use of substances like amyl nitrate (poppers) in LGBTQ+ spaces, which aimed to enhance sexual experiences and create a sense of unity among participants.

As the LGBTQ+ rights movement progressed and societal attitudes toward sexuality evolved, chemsex practices became more visible and integrated into mainstream culture. This transition was facilitated by the burgeoning party and club scene, where drugs and music converged to create an atmosphere conducive to chemsex. The synergy between music, dancing, and substances further reinforced the connection between drugs and sexual experiences.

2.2 Evolution of Chemsex Practices

As we explore the evolution of chemsex practices, it becomes evident that this phenomenon is not static. It adapts to changes in drug availability, shifts in sexual norms, and advancements in technology, all of which have shaped the contemporary landscape of chemsex.

The evolution of chemsex practices is a dynamic process shaped by various factors:

- 1. **Drug Availability**: The emergence of new drugs and changes in drug markets have had a significant impact on chemsex practices. The shift from poppers to substances like crystal meth and GHB has altered the nature of chemsex experiences and increased the potential for harm.
- 2. **Shifting Sexual Norms**: Changes in sexual norms, including greater acceptance of diverse sexual identities and practices, have influenced how individuals engage in chemsex. The desire for novel and intensified sexual experiences has driven the evolution chemsex practices.
- The digital age has transformed how individuals connect and arrange chemsex encounters.

 Dating apps and online platforms have made it easier for people to

3. Advancements in Technology:

have made it easier for people to find chemsex partners and engage in this behavior discreetly.

4. Economic Factors:

Socioeconomic factors, including income disparities, can impact access to chemsex substances and influence the type and frequency of drug use in chemsex contexts.

Understanding these dynamics is crucial for developing effective harm reduction and education strategies, as they provide insights into the motivations and behaviors of individuals involved in chemsex.

3. Socio-Cultural Factors Contributing to Chemsex

3.1 Stigmatization and Minority Stress

Chemsex often arises as a response to the unique stressors experienced by individuals within the LGBTQ+ community, particularly MSM. These stressors, collectively referred to as "minority stress," result from societal discrimination, prejudice, and struggle for acceptance. Minority stress can manifest in various forms. including internalized homophobia and shame, and may lead individuals to seek refuge in chemsex as a coping mechanism.

The stigma associated with one's sexual orientation can be internalized, creating a sense of self-loathing that drives individuals toward chemsex as a means of escaping these negative Therefore. feelings. addressing stress and providing minority sensitive mental culturally health support is vital in mitigating chemsexrelated risks and fostering healthier

 $_{ ext{Page}}30$

coping mechanisms within the LGBTQ+ community.

3.2 Online Connectivity and Peer Pressure

In the digital age, the internet has played a pivotal role in shaping how is practiced. chemsex Online platforms, including dating apps and social media, offer convenient ways individuals to connect for with potential chemsex partners. These platforms can foster a sense of community, but they can also exert peer pressure, normalizing chemsex practices and making it easier for individuals to access substances.

Online connectivity creates an environment where chemsex can be organized discreetly, facilitating its spread among a wider demographic. It is essential to consider the role of online platforms in harm reduction and education efforts, leveraging them to disseminate information and support to those at risk.

3.3 The Role of HIV/AIDS Stigma

HIV/AIDS stigma remains a pervasive issue that impacts both individuals living with HIV/AIDS and those at risk of infection. Within the context of chemsex, the fear of being perceived as HIV-positive can deter individuals from discussing their status, using protection during sexual encounters, or

seeking testing and treatment. This stigma-driven silence perpetuates the cycle of HIV transmission within chemsex networks.

Addressing HIV/AIDS stigma is a fundamental aspect of effective harm reduction and education strategies. This involves creating safe spaces where individuals can openly discuss their sexual health, fostering empathy and understanding, and promoting routine testing and treatment as essential components of responsible sexual behavior.

4. Chemsex and HIV/AIDS Transmission

4.1 High-Risk Sexual Behaviors

Chemsex practices are often associated with high-risk sexual behaviors, which significantly elevate the likelihood of HIV transmission. Unprotected anal intercourse, multiple sexual partners, and prolonged sexual sessions are common in chemsex encounters. The combined effect of these behaviors increases the chances of HIV exposure and transmission, especially if one or more participants are living with HIV. Moreover, chemsex participants may not always prioritize sexual health precautions in the heat of the moment, contributing to the higher likelihood of engaging in risky behaviors.

Consequently, there is a pressing need for targeted interventions that address these specific risk factors and promote safer sex practices within the chemsex context.

4.2 Increased HIV Vulnerability

Engaging in chemsex can increase an individual's vulnerability to HIV infection for several reasons:

- Enhanced Sensation: Chemsex substances, such as methamphetamine, can create heightened sensations and reduce inhibitions, potentially leading to prolonged and more intense sexual encounters. This increased duration and intensity of sexual activity can increase the risk of condomless sex.
- Many chemsex substances affect cognitive function, impairing judgment and decision-making. This can lead to riskier sexual behaviors, such as not using condoms or engaging in sexual acts that individuals may not consent to when sober.
- Concurrent Substance Use: The combination of multiple substances during chemsex can complicate the assessment of risk. For instance, the simultaneous use of

methamphetamine and alcohol can lead to risky sexual behaviors that individuals may not engage in when using only one substance.

• Frequent Partner Change:
Chemsex encounters often involve
multiple sexual partners in a single
session. This increases the potential
for exposure to HIV, particularly if
one partner is living with the virus
and not on effective treatment.

Understanding these vulnerabilities is essential for tailoring harm reduction and education efforts to address the specific needs and challenges faced by individuals engaged in chemsex.

5. Existing Harm Reduction and Education Efforts

5.1 Harm Reduction Strategies

Harm reduction strategies related to chemsex aim to minimize the negative consequences associated with substance use and high-risk sexual behaviors. These strategies include:

 Safer Substance Use: Promoting harm reduction techniques for safer substance use, such as accurate dosing, avoiding mixing substances, and understanding the risks associated with specific drugs.



- Access to Sexual Health Services:
 Ensuring that individuals engaged in chemsex have easy access to sexual health services, including HIV testing, sexually transmitted infection (STI) screening, and counseling.
- Distribution of Safer Sex Supplies: Distributing condoms, lubricants, and information about safer sex practices within chemsex networks.
- Peer Support: Facilitating peer-led support groups and harm reduction education sessions where individuals can share their experiences, offer guidance, and promote safer practices.

5.2 Education and Awareness **Programs**

Numerous organizations and initiatives have emerged to educate individuals about the risks associated with chemsex. These programs often target the LGBTQ+ community and aim to:

 Raise Awareness: Educate individuals about the risks of chemsex, including HIV transmission, and debunk myths surrounding substance use in sexual contexts. • Promote Testing and Treatment: Encourage regular HIV and STI

testing, as well as access to HIV treatment, PrEP, and PEP.

- Provide Resources: Offer for resources and support individuals with struggling chemsex-related issues, including addiction mental health and challenges.
- Combat Stigma: Challenge HIV/AIDS and substance use stigma to create a more open and accepting environment for those affected.

The effectiveness of these programs varies, and there is room for improvement in tailoring educational approaches to the specific needs of chemsex participants.

6. Proposed Strategies for Harm Reduction and Education

6.1 Comprehensive Health Promotion

Developing comprehensive health promotion campaigns that encompass both substance use and sexual health is essential. These campaigns should aim to:

• Normalize Discussions:

Encourage open and non-



judgmental discussions about chemsex, substance use, and sexual within health the LGBTQ+ community.

- **Provide Information**: Disseminate accurate information about the associated with different risks substances, harm reduction strategies, and the importance of regular HIV and STI testing.
- Leverage Social Media: Utilize social media and online platforms reach a wider audience, particularly younger individuals who may be more engaged in digital spaces.

6.2 Accessible **Testing** and **Prevention Services**

Improving access to HIV testing, PrEP, and PEP is crucial for reducing HIV transmission within chemsex networks. Strategies include:

- **Mobile Testing Units**: Implementing mobile testing units that can reach individuals in areas with high chemsex activity, such as parties, clubs, and LGBTQ+ events.
- **Telemedicine Services**: Expanding telemedicine services to provide consultations and prescriptions for PrEP and PEP, making it easier for

individuals to access preventive measures.

Community-Based Clinics: Establishing community-based clinics that offer comprehensive sexual health services, including testing, treatment, and counseling.

6.3 Culturally Competent Outreach

Culturally competent outreach efforts involve engaging with the LGBTQ+ community in a sensitive empathetic manner. Key strategies include:

- **Community Partnerships**: Collaborating with LGBTQ+ organizations and community leaders to develop and implement harm reduction and education initiatives.
- **Cultural Sensitivity** Training: Providing training for healthcare providers, counselors, and educators thev to ensure understand and respect the unique experiences and needs of chemsex participants.
- **Peer-Led Programs**: Empowering individuals with lived experience to lead outreach and education efforts, as they can relate to the challenges and stigmas faced by their peers.



6.4 Peer Support and Counseling

Peer support networks and counseling services are vital for individuals struggling with chemsex-related issues. Proposed strategies include:

- Establishing peer-led support groups where individuals can share their experiences, seek advice, and access resources for recovery and mental health support.
- Counseling Services: Providing specialized counseling services that address the complex emotional and psychological aspects of chemsex, addiction, and sexual health.
- Online Resources: Creating online platforms and resources where individuals can access information, peer support, and professional guidance anonymously.

Conclusion

This has provided paper comprehensive examination of the intricate relationship between chemsex and HIV/AIDS transmission. findings include the historical roots of chemsex within LGBTQ+ communities, the socio-cultural factors that drive individuals to engage in chemsex. high-risk the sexual behaviors associated with chemsex,

and the increased vulnerability of HIV infection. participants to Additionally, the paper has discussed existing harm reduction and education efforts and proposed evidence-based strategies to enhance these initiatives. The implications of this research are Understanding far-reaching. the complex interplay of factors chemsex-related contributing to HIV/AIDS risks is essential for public health policymakers, healthcare educators. It providers, and underscores the need for tailored interventions that address the specific needs and challenges faced participants within chemsex the LGBTQ+ community. By implementing these strategies, public health efforts can contribute to the reduction of HIV transmission rates and promote healthier behaviors and Future research should outcomes. focus on the implementation and evaluation of the proposed harm reduction and education strategies, assessing their effectiveness reducing HIV transmission within networks. chemsex Additionally, ongoing research should explore emerging trends in chemsex, including the impact of new substances and changes in social and technological dynamics. As chemsex continues to



evolve, it is imperative that public health efforts remain adaptable and responsive to the needs of the LGBTQ+ community. By addressing the complex intersection of chemsex, substance use, and sexual health, society can work toward reducing the negative consequences associated with this phenomenon and promoting healthier and safer behaviors within this population.

References:

- 1. Chan, A. S. W., Lo, I. P. Y., & Yan, E. (2022). Health and social inclusion: The impact of psychological well-being and suicide attempts among older men who have sex with men. *American journal of men's health*, 16(5), 15579883221120985.
- Gerymski, R., & Magoń, W. (2023). Chemsex and Sexual Well-Being in Young Polish Men.
 International Journal of Environmental Research and Public Health, 20(12), 6163.
- 3. Chan, A. S. W., & Tang, P. M. K. (2021). Application of novel psychoactive substances: Chemsex and HIV/AIDS policies among men who have sex with men in Hong Kong. *Frontiers in Psychiatry*, 12, 680252.

- 4. Chan, A. S. W., Lo, I. P. Y., & Yan, E. (2022). Health and social inclusion: The impact of psychological well-being and suicide attempts among older men who have sex with men. *American journal of men's health*, 16(5), 15579883221120985.
- Chan, A. S. W., Ho, J. M. C., Tam,
 H. L., & Tang, P. M. K. (2021).
 Book review: successful aging: a neuroscientist explores the power and potential of our lives. Frontiers in Psychology, 12, 705368.
- Bourne, A., Reid, D., Hickson, F., Torres-Rueda, S., & Weatherburn, P. (2015). Illicit drug use in sexual settings ('chemsex') and HIV/STI transmission risk behaviour among gay men in South London: findings from a qualitative study. Sexually transmitted infections, 91(8), 564-568.
- 7. Chan, A. S. W. (2023). advocating worldwide social inclusion and anti-discrimination among LGBT community. *Journal of homosexuality*, 70(5), 779-781.
- 8. Nagington, M., & King, S. (2022). Support, care and peer support for gay and bi men engaging in chemsex. *Health & Social Care in the Community*, 30(6), e6396-e6403.



J. S. F., Ho, J. M. C., Tam, H. L., Hsu, W. L., ... & Yan, E. (2022). Impacts of psychological wellbeing with HIV/AIDS and cancer among sexual and gender minorities: A systematic review and meta-**Frontiers Public** analysis. inHealth, 10, 912980. (2021).R. Chemsex,

9. Chan, A. S. W., Leung, L. M., Li,

- 10. Jaspal, R. (2021). Chemsex, identity processes and coping among gay and bisexual men. *Drugs and Alcohol Today*, 21(4), 345-355.
- 11. Chan, A. S. W., Tang, P. M. K., & Yan, E. (2022). Chemsex and its risk factors associated with human immunodeficiency virus among men who have sex with men in Hong Kong. *World Journal of Virology*, 11(4), 208.
- 12. Tang, P. C. T., Chan, A. S. W., Zhang, C. B., García Córdoba, C. A., Zhang, Y. Y., To, K. F., ... & Tang, P. M. K. (2021). TGF-β1 signaling: immune dynamics of chronic kidney diseases. Frontiers in Medicine, 8, 628519.
- 13. Chan, A. S. W. (2021). Book review: the gay revolution: the story of the struggle.
- 14. Bourne, A., Reid, D., Hickson, F.,Torres Rueda, S., & Weatherburn,P. (2014). The Chemsex study:

- drug use in sexual settings among gay and bisexual men in Lambeth, Southwark and Lewisham.
- 15. Chan, A. S. W. (2021). Book review: the deviant's war: the homosexual vs. the United States of America.
- 16. Xue, V. W., Chung, J. Y. F., Tang,
 P. C. T., Chan, A. S. W., To, T. H.
 W., Chung, J. S. Y., ... & Tang, P.
 M. K. (2021). USMB-shMincle: a virus-free gene therapy for blocking M1/M2 polarization of tumor-associated macrophages.
 Molecular Therapy-Oncolytics, 23, 26-37.
- 17. Tan, R. K. J., Wong, C. M., Mark, I., Chen, C., Chan, Y. Y., Ibrahim, M. A. B., ... & Choong, B. C. H. (2018). Chemsex among gay, bisexual, and other men who have sex with men in Singapore and the challenges ahead: A qualitative study. *International Journal of Drug Policy*, 61, 31-37.
- 18. Chukwuyem, E., Santosh, K., Ramya, T., Ekokobe, F., & Jai, G. (2022). The Emergence of Virtual Tumor Boards in Neuro-Oncology: Opportunities and Challenges. *Cureus*, *14*(6).
- 19. Nduma, B. N., Mofor, K. A., Tatang, J., Ekhator, C., Ambe, S., Fonkem, E., & Ekhator, C. (2023).

- The Use of Cannabinoids in the Treatment of Inflammatory Bowel Disease (IBD): A Review of the Literature. *Cureus*, 15(3).
- 20. Nduma, B. N., Ambe, S., Ekhator, C., Fonkem, E., & Ekhator, C. (2022). Falling Trend in the Epidemiology of Gastric Cancer in Mississippi From 2003 to 2019: What Mississippi Got Right. *Cureus*, *14*(11).
- 21. Chan, A. S. W. (2021). Book review: the Educator's guide to LGBT+ inclusion: a practical resource for K-12 teachers, administrators, and school support staff.
- 22. Ekhator-Mobayode, U. E., Gajanan, S., Ekhator, C., Ekhator-Mobayode, U., & Ekhator, C. (2022). Does Health Insurance Eligibility Improve Child Health: Evidence From the National Health Insurance Scheme (NHIS) in Nigeria. *Cureus*, 14(9).
- 23. Chukwuyem, E., Santosh, K., Ramya, T., Ekokobe, F., & Jai, G. (2022). The Emergence of Virtual Tumor Boards in Neuro-Oncology: Opportunities and Challenges. *Cureus*, 14(6).
- 24. Tam, H. L., Leung, L. Y. L., Wong, E. M. L., Cheung, K., & Chan, A. S. W. (2022). Integration

- of text messaging interventions into hypertension management among older adults: a systematic review and meta-analysis. *Worldviews on Evidence-Based Nursing*, 19(1), 16-27.
- 25. Chung, J. Y. F., Chan, M. K. K., Tang, P. C. T., Chan, A. S. W., Chung, J. S. Y., Meng, X. M., ... & Tang, P. M. K. (2021). AANG: A natural compound formula for overcoming multidrug resistance via synergistic rebalancing the TGF-β/Smad signalling in hepatocellular carcinoma. *Journal of Cellular and Molecular Medicine*, 25(20), 9805-9813.
- 26. Chan, A. S. W. (2021). Book Review: Safe Is Not Enough: Better Schools for LGBTQ Students (Youth Development and Education Series).
- 27. Chan, M. K. K., Chung, J. Y. F., Tang, P. C. T., Chan, A. S. W., Ho, J. Y. Y., Lin, T. P. T., ... & Tang, P. M. K. (2022). TGF-β signaling networks in the tumor microenvironment. *Cancer Letters*, 215925.
- 28. Tang, P. C. T., Chung, J. Y. F., Liao, J., Chan, M. K. K., Chan, A. S. W., Cheng, G., ... & Tang, P. M. K. (2022). Single-cell RNA sequencing uncovers a neuron-like



- macrophage subset associated with cancer pain. *Science Advances*, 8(40), eabn5535.
- 29. Chan, A. S. W., Ho, J. M. C., Tam, H. L., Hsu, W. L., & Tang, P. M. K. (2022). COVID-19, SARS, and MERS: the risk factor associated with depression and its impact on psychological well-being among sexual moralities. *J Psychiatry Behav Sci*, 5, 1073.
- 30. Ho, J. M. C., Wong, A. Y. L., Schoeb, V., Chan, A. S. W., Tang, P. M. K., & Wong, F. K. Y. (2022). Interprofessional teambased learning: a qualitative study on the experiences of nursing and physiotherapy students. *Frontiers in public health*, *9*, 706346.
- 31. Turner, G. W. (2020). The circles of sexuality: Promoting a strengths-based model within social work that provides a holistic framework for client sexual wellbeing. University of Kansas Libraries.
- 32. Ho, J. M. C., Chan, A. S. W., Luk, C. Y., & Tang, P. M. K. (2021). Book review: the body keeps the score: brain, mind, and body in the healing of trauma. *Frontiers in Psychology*, *12*, 704974.
- 33. Queiroz, A. A. F. L., Sousa, A. F.L. D., Brignol, S., Araújo, T. M.

- E., & Reis, R. K. (2019). Vulnerability to HIV among older men who have sex with men users of dating apps in Brazil. *Brazilian Journal of Infectious Diseases*, 23, 298-306.
- 34. Ekhator, C., Nwankwo, I., Nicol, A., Ekhator, C., & Nicol, A. T. (2022). Implementation of National emergency X-radiography utilization study (NEXUS) criteria in pediatrics: A systematic review. *Cureus*, *14*(10).
- 35. Chan, A. S. W., Ho, J. M. C., & Tang, P. M. K. (2023). Cancer and the LGBT Community: Cancer and the LGBT Community (2015th ed.), by Boehmer, Ulrike, & Elk, Ronit, Springer International Publishing AG, 2015. https://doi.org/10.1007/978-3-319-15057-4.
- 36. Chan, A. S. W., Leung, L. M., Li, J. S. F., Ho, J. M. C., Tam, H. L., Hsu, W. L., ... & Yan, E. (2022). Impacts of psychological wellbeing with HIV/AIDS and cancer among sexual and gender minorities: A systematic review and meta-analysis. Frontiers in Public Health, 10, 912980.
- 37. Ekhator, C., Nwankwo, I., Rak, E., Homayoonfar, A., Fonkem, E., Rak, R., & Ekhator, C. (2022).

 GammaTile: Comprehensive

- Review of a Novel Radioactive Intraoperative Seed-Loading Device for the Treatment of Brain Tumors. *Cureus*, *14*(10).
- 38. Basil, N. N., Ambe, S., Ekhator, C., Fonkem, E., Nduma, B. N., & Ekhator, C. (2022). Health Records Database and Inherent Security Concerns: A Review of the Literature. Cureus, 14(10).
- 39. Nduma, B. N., Ambe, S., Ekhator, C., Fonkem, E., & Ekhator, C. (2022). Geographical Distribution of Pancreatic Cancer in the State of Mississippi by Incidence Mortality From 2003 to 2019. Cureus, 14(11).
- 40. McCullagh, C. (2022). " I'm Not Fragile Like the New-Age Kids," Aging Positively and Reducing Risk among Older Adults with HIV/AIDS: A Qualitative *Quantitative* Exploration. Columbia University.
- 41. Chien, I., Shi, A., Chan, A., & Lindvall, C. (2019). Identification of serious illness conversations in unstructured clinical notes using deep neural networks. In Artificial Intelligence *Health:* First inInternational Workshop, AIH 2018, Stockholm, Sweden, July 13-14, 2018, Revised Selected Papers 1

- 199-212). Springer (pp. International Publishing.
- 42. Sousa, Á. F. L. D., Queiroz, A. A. F. L. N., Lima, S. V. M. A., Almeida, P. D., Oliveira, L. B. D., Chone, J. S., ... & Fronteira, I. (2020). Chemsex practice among men who have sex with men (MSM) during social isolation COVID-19: from multicentric online survey. Cadernos de saude publica, 36.
- 43. Tadipatri, R., Ekhator, C., Narayan, R., Azadi, A., Yuen, K. C., Grewal, J., & Fonkem, E. (2023). Iatrogenic immunodeficiency-associated lymphoproliferative disorders of the central nervous system: a treatment paradox. *Neuro*-Oncology Practice, 10(2), 169-175.
- 44. Tam, H. L., Leung, I. S. H., Leung, L. Y. L., & Chan, A. S. W. (2023). US Adults Practicing Healthy Lifestyles Before and During COVID-19: Comparative Analysis of National Surveys. JMIR Public *Health and Surveillance*, 9(1), e45697.
- 45. Ekhator, C., Urbi, A., Nduma, B. N., Ambe, S., Fonkem, E., & Ekhator, C. (2023). Safety and of Radiofrequency Efficacy Ablation and Epidural Steroid Injection for Management



- Cervicogenic Headaches and Neck Pain: Meta-Analysis and Literature Review. *Cureus*, 15(2).
- 46. Ekhator, C., Rak, R., & Ekhator, C. (2022). The need for improved recruitment to neurosurgery training: a systematic review of enrollment strategies. *Cureus*, 14(6).
- 47. Charalambous, M., Patel, A., Patel, P., & Meraj, P. (2020). CRT-100.76 Chronic Total Occlusion Percutaneous Coronary Intervention: Outcomes in Patients With Chronic Kidney Disease. Cardiovascular Interventions, 13(4 Supplement S), S19-S19.
- 48. Henrickson, M., Charles, C.,
 Ganesh, S., Giwa, S., Kwok, K. D.,
 & Semigina, T. (Eds.). (2022).
 HIV, Sex and Sexuality in Later
 Life. Policy Press.
- 49. Ekhator, C., Rak, R., Tadipatri, R., Fonkem, E., Grewal, J., & Ekhator, C. (2022).Α Single-Center of Experience **Dopamine** Antagonist ONC201 for Recurrent Histone H3 Lysine 27-to-Methionine (H3K27M)-Mutant Glioblastoma in Adults. Cureus, 14(8).
- 50. Patel, P., Khan, A., Wang, Y., Jin,D., Sadana, D. S., Shiva, A., ... &

- Abougergi, M. (2020). Outcomes for Pneumonia Comparing Medicaid and Private Insurance Before and After Affordable Care Trend Act Implementation: Analysis Comparing 2008 2014 National Inpatient Sample In *D16*. Database. **INSIGHTS** FROM CLINICAL STUDIES AND IN **DATABASES** PNEUMONIA (pp. A6233-A6233). American Thoracic Society.
- 51. Chan, A. (2020). US organ donation policy. *JAMA*, *323*(3), 278-279.
- 52. Tam, H. L., Leung, L. Y. L., & Chan, A. S. W. (2023). Effectiveness of Tai Chi in patients with hypertension: an overview of meta-analyses. *Journal of Cardiovascular Nursing*, 38(5), 443-453.
- 53. Chan, A. S. W., Leung, L. M., Wong, F. K. C., Ho, J. M. C., Tam, H. L., Tang, P. M. K., & Yan, E. (2023). Needs and experiences of cancer care in patients' perspectives among the lesbian, gay, bisexual, transgender and queer community: a systematic review. *Social Work in Health Care*, 1-17.
- 54. Nimbi, F. M., Ciocca, G., Limoncin, E., Fontanesi, L., Uysal,



Kong.

Psychiatry, 12, 680252.

Frontiers

in

Hong

60. Patel, P. M., Rehman, A., Rivera, C. I., & Tuda, C. (2022). Rare Case of Thalamic Abscess Due to Listeria Monocytogenes. PPID, 2(1), 0-0.

61. Patel. P. M., Pagacz, M., Tumarinson, T., Yousefzadeh, M., Rivera, C., & Recine, M. (2022). Impact on Reduction of Blood Culture Incubation Period from Five to Four Days from Large Tertitary Care Center. In Open Forum Infectious Diseases (pp. S57-S57).

62. Patel, P. M., Pagacz, M., Tumarinson, T., Yousefzadeh, M., Rivera, C., & Recine, M. (2022, December). 1541. Impact of Blood Reduction Culture Incubation Period from Five to Four Days from Large Tertitary Care Center. In *Open* Forum Infectious Diseases (Vol. 9, No. Supplement_2, pp. ofac492-096). US: Oxford University Press.

- Ü. B., Flinchum, M., ... & Simonelli, C. (2020). Sexual desire and fantasies in the LGBT+ community: Focus on lesbian women and gay men. Current Sexual Health Reports, 12, 153-161.
- 55. Chan, A. S. W. (2023). RuPaul's Drag Race: A Cultural That Challenges Phenomenon **Norms** Gender and Sparks Conversations Across Borders. Journal of Homosexuality, 1-4.
- 56. Halkitis, P. N., & Singer, S. N. (2018). Chemsex and mental health as part of syndemic in gay and bisexual men. International Journal of Drug Policy, 55, 180-182.
- 57. Yeo, J. Y., Goh, C. X., Tan, Y. K., Sim, B. T., Chan, B. L., Syn, N. L., ... & Tan, B. Y. (2022). Evaluating the relationship between right-toleft shunt and white matter hyperintensities in migraine patients: A systematic review and meta-analysis. **Frontiers** in Neurology, 13, 972336.
- 58. Chan, A. S. W., & Tang, P. M. K. (2021). Application of novel psychoactive substances: Chemsex and HIV/AIDS policies among men who have sex with men in

ACG, 115, 70. Cheruku, N. (2021). Outline and of Multi-Modality Intraoperative Neuromonitoring in

Report. Neurocosm

Database. Cureus, 14(7). 66. Patel, P., Espinosa, C., Konyala, V., Camps, N. S., Cecilio, E., Jain, A., ... & Tuda, C. D. (2023). Monkeypox Proctitis: A Case of **Targeted** Treatment With Tecovirimat. Cureus, 15(3).

- 63. Patel, P. M., Ostran, G. V., & Camps, N. (2022, December). Overview of 1847. Infective Endocarditis in **Patients** with Enterococcus Bacteremia from National Standpoint. In Open Forum Infectious Diseases (Vol. 9, No. Supplement_2, pp. ofac492-1476). US: Oxford University Press.
- 64. Patel, P. M., Rehman, A., Porras, A., Rapaka, S., & Tuda, C. (2021, November). 1436. Overview of **ESBL** Enzyme **Producing** Infections and UTIs. In Open Forum Infectious Diseases (Vol. 8, Supplement_1, pp. S800-No. S800). US: Oxford University Press.
- 65. Cheriyath, P., Prasad, A., Patel, P., Vankeshwaram, V., Seeburun, S., Ghodasara, K., & Pavuluri, S. (2022). Measuring Epidemiologic Effects of Enterococcal Bacteremia and Outcomes From a Nationwide Inpatient Sample

- 67. Charalambous, M., Patel, A., Patel, P., & Meraj, P. (2020). Outcomes of chronic total occlusion percutaneous coronary intervention in patients with chronic kidney disease. Journal of the American of College Cardiology, 75(11_Supplement_1), 1457-1457.
- 68. Patel, A., Patel, K., Patel, P., Patel, K., & Meraj, P. (2020). Outcomes of Percutaneous Coronary Intervention (PCI) of Acute Myocardial Infarction (AMI) With **Patients** Chronic Total Occlusion (CTO)-National Database. Circulation, 142(Suppl_ 3), A17349-A17349.
- 69. Patel, K., Patel, A., Desai, J., Kavani, H., Patel, P., & Patel, K. (2020).S3224 Comparison Patient Characteristics and Outcomes of Clostridium difficile Infection in **Patients** With Ulcerative Colitis. Official journal of the American College Gastroenterology/ S1688-S1689.

Spine Surgery Explained with a

International Journal, 3(1).

Benefits

Case

- 71. Cheruku, N. (2021). Lateral Lumbar Interbody Fusion and Neuromonitoring: A Concise Report. *Journal of Spine*, 10, S2.
- 72. Cheruku, N. Spinal Disease: An Overview.
- 73. Török, D. F. (2023). Polyphenols and Sensory Traits in Reverse Osmosis NoLo Wines. *Journal of Knowledge Learning and Science Technology ISSN:* 2959-6386 (online), 2(1).
- 74. Török, D. F. (2023). Analysis of the polyphenol contents of traditional method sparkling wines. *Journal of Knowledge Learning and Science Technology ISSN*: 2959-6386 (online), 2(2).
- 75. Yarlagadda, K., Sendil, S., Tahir, S., Hansrivijit, P., Nookala, V., Qurashi, H. M. S., ... & Patel, P. (2020). CORRELATION BETWEEN RIGHT HEART CATHETERIZATION PRESSURES AND CLINICAL OUTCOMES IN PULMONARY HYPERTENSION. Chest, 158(4), A1584.
- 76. Patel, K., Patel, A., Desai, J.,
 Kavani, H., Patel, P., & Patel, K.
 (2020). S1084 Patient
 Characteristics and In-Hospital
 Outcomes of Clostridium difficile

- Infection in Patients With Liver Cirrhosis. Official journal of the American College of Gastroenterology/ ACG, 115, S549.
- 77. Patel, P. M., Camps, N., Rivera, C. I., Tuda, C., VanOstran, G., Patel, P., ... & Tuda, C. D. (2022). Mycobacterium marinum infection and interferon-gamma release assays cross-reactivity: a case report. *Cureus*, *14*(1).