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WIMJAD



NATIONAL HEALTH RESEARCH CONFERENCE

NOVEMBER 22, 2024

5th Annual National Health Research Conference

Digital Health Transformation: Leveraging Technology for Better Care

November 22, 2024

HYATT REGENCY TRINIDAD Port of Spain, Trinidad and Tobago

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5th Annual National Health Research Conference

Digital Health Transformation: Leveraging Technology for Better Care

November 22, 2024

HYATT REGENCY TRINIDAD Port of Spain, Trinidad and Tobago

Scientific Editors

Dr S Chand
Dr J Foster
Dr S Glasgow
Dr M Ivey
Professor DT Simeon

Partners

This conference is being jointly hosted by the following partners:

























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The Inter-Institution Planning Committee extends our deepest gratitude to the following organizations for their generous support and unwavering commitment to the advancement of health research:

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Your contributions have been instrumental in providing health decision makers, researchers and practitioners with a platform to exchange ideas, foster collaboration, and advance the frontiers of health research in Trinidad and Tobago.

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Trinidad and Tobago's Fifth National Annual Health Research Conference: Disseminating Indigenous Research Findings Toward Evidence-based Practices, Programmes and Policy

Trinidad and Tobago (T&T) hosted its first National Health Research Conference in 2020. Initially scheduled for March of that year, it was postponed to November due to the COVID-19 pandemic. Notably, it has been held every November since then (1). The pandemic also meant that the planned face-to-face event in 2020 had to be pivoted to an online format. The Second Annual Conference was also hosted online in 2021 but since 2022 it has been face-to-face.

The primary objective of the National Health Research Conference (NHRC) is to disseminate the findings of indigenous research for use by policy makers, programme managers, care providers, researchers, students and civil society. This has been achieved and the Conference has been well supported with over 350 papers presented over the first four years and another 85 scheduled for 2024. Additionally, attendance continues to increase and was over-subscribed in 2023 with over 250 delegates. This is not insignificant, as the successful hosting of the Conference has undoubtedly contributed to the strengthening of the national health research culture. The presentation of papers and fielding of questions by both junior and senior researchers have resulted in capacity development of the former in a nurturing environment.

The Conference has also showcased research from an impressive range of disciplines that reflect the health issues confronting the country. Investigators have shared their findings on research on Infectious Diseases (including COVID-19), Chronic Non-Communicable Diseases, Mental Health and Wellbeing, Climate Change, Health Services, Clinical Studies, Laboratory Investigations, Oral Health, Veterinary Studies, Social Sciences, *inter alia*. A formal evaluation is needed but there appears to be greater collaboration among researchers from different disciplines and institutions since 2020. Nevertheless, this is an area that requires further strengthening to keep pace with the rapid increase in multidisciplinary health research internationally.

The launch of Trinidad and Tobago's first National Health Research Agenda in February 2024 was a significant achievement (2). It is probably the only active Agenda in the Caribbean and one of the few in the Americas Region. Work on the agenda started in 2018 and included a series

of stakeholder consultations including a reverse research day when health decision makers presented their needs to researchers. A Delphi methodology was then used to generate and rank research topics that are aligned with the country's strategic health priorities as defined by the Ministry of Health. The Agenda has been widely disseminated among all the key stakeholders, especially the institutions involved in the conduct and funding of research. We look forward to national resources being invested in the conduct of these priority research. However, while efforts are being made to encourage this, it must be noted that the World Bank has reported that Research and Development (R&D) expenditure in Trinidad and Tobago was only 0.05% of GDP in 2021 (3). This is very sobering and there is clearly a need to address this shortfall, especially when the global average is 2.62%. Of interest, R&D expenditure is 0.62% of GDP for the Latin America and Caribbean region. Notwithstanding, we look forward to the conduct of the priority research and for the papers to be presented at the Annual National Health Research Conference.

The Second Global Evidence Summit was recently hosted by the global leaders in evidence-based policy and practice under the theme of 'Using evidence. Improving lives' (4). While the value of systematic reviews, in particu-lar living evidence syntheses (5), was highlighted, there was agreement on the importance of local context. That is, there is always a critical need for national research findings to complement comprehensive reviews developed using the best globally available evidence. Therefore, the NHRC's role in disseminating local research findings is crucial and further facilitates the utilization of evidence in health decision-making. This was also highlighted in a project to strengthen the institutionalization of Evidence Informed Decision Making in T&T. The study is led by the World Health Organization in collaboration with the Ministry of Health, the Evidence for Policy & Practice Information (EPPI) Centre, University College of London, and the Car-ibbean Centre for Health Systems Research and Develop-ment, University of the West Indies.

The theme for the 2024 NHRC is "Digital Health Transformation: Leveraging Technology for Better Care", highlighting the crucial role of technology in revolutionis-

ing healthcare in Trinidad and Tobago. During the Opening Ceremony, the international feature lecture will be presented by Marcelo D'Agostino, Chief of Information Systems and Digital Health, Pan American Health Organization. The Minister of Health, Honourable Terrence Deyalsingh, has always supported the NHRC and will again deliver the feature address at the Opening. The NHRC will also end on a high as at the Closing Ceremony, Dr Dan Ramdath, a leading Caribbean health researcher, will be presented with the Lifetime Health Research Achievement Award.

We salute the T&T researchers for their dedication and commitment to sharing the findings, the audiences for their active participation in debates and discussions of presentations, and the sponsors for their timely support over the first five years of the NHRC. It is also important to recognize the partners that have placed the nation's health at the forefront and collaborated to host the NHRC. They include the Ministry of Health; Tobago House of Assembly; Faculty of Medical Sciences & Caribbean Centre for Health Systems Research and Development, The University of the West Indies; The University of Trinidad and Tobago; The University of the Southern Caribbean; the Regional Health Authorities; and the Trinidad and Tobago National Nursing Association.

The stage is well set for a grand fifth-anniversary celebration of health research in Port-of-Spain in November 2024.

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- Elliott J, Lawrence R, Minx JC, Oladapo OT, Ravaud P, Tendal Jeppesen B, et al. Decision makers need constantly updated evidence synthesis. Nature. 2021 Dec;600(7889):383–5.

Professor Donald T. Simeon

Chairman, Inter-Institution Planning Committee for the T&T National Health Research Conference Director, Caribbean Centre for Health Systems Research and Development, The University of the West Indies, St Augustine



Inter-Institution Planning Committee

Many thanks to all members for their invaluable support and contributions toward planning and making the National Health Research Conference a success.

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PROGRAMME



OPENING CEREMONY

8:00 am–9:15 am Welcome & Opening Remarks

Feature Presentation: Mr. Marcelo D'Agostino,

Pan American Health Organization Address: Honorable Terrence Devalsingh, Minister of Health, Trinidad and Tobago

9:20 am-10:15 am SESSION 1: Digital Health

O1 Impact of Quality and Access on Use of Routine Health Data: Concerns and Implications

Marsha A. Ivey, Keisha Samlal, Alissa Moore, Donald T. Simeon

O2 An Audit of Patient Satisfaction in Relation to Telemedicine at the Rheumatology

Outpatient Clinic of the San Fernando Teaching Hospital

Esther Ramlakhan, Haramnauth Dyaanand, Gavaskar Ramnanansingh

O3 Exploring Factors Affecting Technological Acceptance among Healthcare Professionals:

A Systematic Review

Satesh Soohai, Melissa Steele, Jordanne Pereira, Rhondell Dipnarine, Gabrielle Simbhoo

O4 A New Digital Platform for EQ-5D-5L Valuation Studies Creates Opportunities for Using

Health Outcomes and QALYs in the Caribbean

Henry Bailey, Bram Roudijk

Question and Answer: Session 1

10:15 am-11:30 am Break/Poster Session 1

11:30 am-12:25 pm SESSION 2: Mental Health and Wellbeing

O5 Religious Coping and Mental Health During the COVID-19 Pandemic: A Study from

Trinidad and Tobago

S D. Reid, M A. Ivey

O6 The Knowledge, Attitudes, and Practices of Emergency Physicians in Treating Sexual

Assault Patients Presenting to the Emergency Departments in South Trinidad

S A Varachhia, J R. Kissoon, M G. F. Craigwell, N T. Williams, A S. Hasanali

O7 Perceptions of Workplace Violence and Safety in the Emergency Departments: A Survey of the Staff of the Emergency Departments in the South-West Regional Health Authority

R Babwahsingh, S Varachhia, J Paul, I Sammy

 $O8\ An\ Analytical\ Study\ on\ Catheter-Related\ Complications\ and\ Quality\ of\ Life\ Assessment$

in Outpatients with a Long-Term Indwelling Catheter

D Ajodha, B S. Ali, T T.E. Kerr, N A. Lovell, M D. Mohammed, S M.E. Ramtahal, S A. Samlal,

D K. Dookeeram, J K. Leach

Question and Answer: Session 2

12:30 pm-1:30 pm LUNCH & NETWORKING

1:30 pm-2:25 pm SESSION 3: Infectious Diseases

O9 Nasal, Lungs, and Intestinal Aerobic Bacterial Flora in Wild Black-Eared Opossums (Didelphis marsupialis) in Trinidad, West Indies

D Supersad, K Frontera-Acevedo, A K. Persad, R Charles, I Pargass, S Rajh, A Bally, L Gyan, J Seetahal, R J. Pierre, R Suepaul

 ${
m O10}$ The Utility of Shock Index in Predicting Mortality in Adults Presenting to the Emergency Department with Sepsis

S K. Ramnarace, J Paul, I Sammy, S Varachhia

O11 Impact of COVID-19 on Voice, Speech, and Swallowing Function: An Analysis of the United States National Health Interview Survey

C Davis

O12 Trends and Socio Demographic patterns in HIV knowledge among young women 15–24 years in Trinidad and Tobago - Evidence from the 2011 and 2022 Multiple Cluster Indicator Surveys

B Andrews

Question and Answer: Session 3

2:25 pm-3:00 pm

BREAK / POSTER SESSION 2

3:00 pm-3:55 pm

SESSION 4: Non-Communicable Diseases / Nutrition

O13 Comparing the Diagnostic Accuracy of the Revised Geneva Score Versus the Wells Score in Diagnosing Pulmonary Embolism in a Trinidadian Population

S Jagdip, J Paul, I Sammy

O14 Oral Health Knowledge, Attitudes, and Practices among People Living with Diabetes in Trinidad: Preliminary Findings

V Ramroop, R Balkaran, N Bridglal, A Dhanoo, R Naidu

O15 Nutritional Impact Symptoms and Dietary Changes During Cancer Treatment: A Qualitative Analysis (Preliminary Results)

K C. Samlal, A Williams, A Lutchman, B Charles, C Ramsaran, L Ramkissoon, M Ramlal, S Brown, M Nimrod, M A. Ivey

O16 An Examination of Food Insecurity among Students at the University of the West Indies St Augustine Campus: Is There a Need for a Students' Food Pantry?

S Sookram, M C. Webb

Question and Answer: Session 3

4:00 pm-4:45 pm

Presentation by Feature Speaker

4:45 pm

AWARDS & CLOSING CEREMONY

Presentation of Prizes

Early Career Researcher Prize

Undergraduate Student Researcher Prize Postgraduate Student Researcher Prize

Best Oral Presentation Best Poster Presentation

Conference Delegates' Choice – Best Poster

Lifetime Research Achievement Award

Closing Remarks and Vote of Thanks

DIGITAL HEALTH

- (P-1) Perceptions of Healthcare Workers and Patients on the Implementation of Health Information Technology in a Secondary and Primary Healthcare Setting in East Trinidad A Bridgelal-Gonzales, N Khan, D Geelalsingh, S Bissessar, K Bissessar
- (P-3) Knowledge and Attitude Towards Artificial Intelligence and its Future in Medical Education as Perceived by Medical Students at the University of the West Indies, St. Augustine Campus B Sa, A Roach, S Parmasar, E Cyrus, R Deonarine, B Buchoon, R Solomon, J Phillip
- (P-4) Telehealth Beliefs, Expectations, and Curriculum Readiness: Perspectives of Tertiary Nursing Students in Trinidad and Tobago

 L. G. Campbell-George, I Craigwell, C Lewis, D Sanchez, K M Wafe, T Borrel, D Ramkissoon

NON-COMMUNICABLE DISEASES

- (P-5) A Systematic Review to Compare Conventional Therapies Plus Natural Products with Conventional Therapies Only for Breast Cancer Treatment

 L Blaides, P Burnley, O Brathwaite, M Kondaveeti, K Maharaj, G Ramphalie, R Dahiya, T Hoyte, M Ive
- (P-6) Cervical Cancer Screening Uptake and Associated Factors at Primary Care Facilities in Peripheral Settings in Ethiopia
 S Debebe, A Shita, M Yilma, S Getachew
- (P-7) Exploring the Knowledge, Attitudes, and Behaviours of Individuals with Non-Communicable Diseases
 Towards Maintaining a Plant-Based Diet
 T Esnard, S Scott, J Rivers, A Maharaj, V Sharma, J Thomas, S Callender, S Bispath
- (P-8) Assessing Compliance with Recommended Lifestyle Changes among Adults Diagnosed with Metabolic Syndrome at an Outpatient Clinic in Trinidad

 R Boochoon, A Gowrie, R Hector, M Street, J Thomas, A Williams, R Williams, V Singh
- (P-9) Socioeconomic Determinants of Cardiovascular Disease: A Systematic Review L Benjamin, A Ali, S Gonzales, K Jaggernauth, A Lalman, A Murally, V Rajahram, O Roberts
- (P-10) Knowledge, Attitudes, Practices, and Beliefs of Complementary and Alternative Medicines Used by Cardiovascular Patients, and its Impact on Lipid Profile, Body Mass Index, and Blood Pressure in an Outpatient Clinic in Trinidad and Tobago

 F Dass, A Duke, M Mahler, R Mohammed, C Shaffrali, S Skeete, N Thangalla, S Jankie, S Singh
- (P-11) A Comparative Analysis of the Management of Type 2 Diabetes amongst Type 2 Diabetic Patients Before and During the COVID-19 Pandemic in Trinidad

 V Bhagirathee, A Bissoon, Y Francis, S Mohammed, S Osborne, R Ramdhan, I Sandy, S Nayak
- (P-12) Factors Associated with Oral Health-Related Quality of Life of Persons with and without Diabetes in Trinidad & Tobago

 N Andrew, J Gaskill, H Imamshah, J Mullings, A Rahim, D K. Dookeeram, S Ramnanan

- (P-13) Knowledge, Attitudes, Practices, and Beliefs of Complementary and Alternative Medicine used by Diabetic Patients and the impact of Its use on Fasting Blood Glucose, HbA1c, and Blood Lipid Profiles of Diabetics at an Outpatient Clinic in Trinidad and Tobago

 J D Barry, A Williams, J Bissessar, Z Latchan, I Hassim, T Marbella, J Price, S Jankie, S Singh
- (P-14) Blood Control in Patients after Introduction of HEARTS in South Trinidad: Preliminary Findings G Ramnanansingh, S Hema Ramlal, V J Seurnarine, A A Hankey
- (P-15) Examining the Relationship Between Herbal Medicine Use and Blood Pressure Control in Individuals on Antihypertensive Therapy in Trinidad

 G Carvalho, A Brereton, S Baboolal, K Chinemilly, M Premchand, R Ramdial, A Ramroop, P Richards,
 T Seepersad and A F. Williams-Persad
- (P-16) Health-Related Quality of Life and Clinical Profile of End Stage Renal Disease Patients Undergoing Renal Replacement Therapy (Preliminary Findings)

 Tramirez, R D Santos, Z Joseph, D Munroe, M Schulere, G Valere, J Williams, M A. Ivey, H Bailey, S Sanchez
- (P-17) An Analytical Cross-Sectional Study of Families/Caregivers of Dialysis Patients: Bio-Psycho-Social-Economic Impact

 M Bahall, A Kisseur, A Harry, Dominique Gransaull, Sacha Nandlal, Sydney Alexander, Vidal Ramdass
- (P-18) Evaluation of Client Satisfaction with the National Organ Transplant Services

 D Dumas, K Gonzales, C Lynch, N Mohammed, O Mosodeen, V Ramoutar, L Merritt-Charles

HIV / INFECTIOUS DISEASES

- (P-19) Prevalence and Risk Factors Associated with Human Immunodeficiency Virus (HIV) and Sexually Transmitted Infection (STI)

 A J. Williams, C Sudan, K Stüven, I Griffith, S Mahabir, S Jeremie, T P. Ali, M A. Ivey
- (P-20) Non-Communicable Diseases and HIV: A Review of Diabetes and Hypertension in Persons 50 Years and Older and Living with HIV

 Soyer, J Edwards, J Edwards
- (P-21) Awareness and Use of HIV Self-Testing among Women in Trinidad and Tobago B Andrews
- (P-22) Self-Reported Stigma, Discrimination and Psychosocial Distress among Employed Persons Living with Human Immunodeficiency Virus at a Treatment Clinic H.D. Rodney, Y.Y. Simon, J.R. Edwards, B.E. Andrews, G.A. Thomas, Q.D.Q. Dickson
- (P-23) Implementing Human Papillomavirus (HPV) Vaccination Services in People Living with HIV in Trinidad and Tobago: COVID-19 Vaccination May Have Boosted HPV Vaccination T Galindo, J Edwards, G Song, S Soyer, S Todd, G Boyce, K Ashing, J Edwards
- (P-24) Assessment of Hand Hygiene Knowledge, Attitudes, and Practices in the Post COVID-19 Pandemic Era S Beharry, C A. De Silva, V Dhawalaghar, A L. Francis, J A. Rochford, J Seetaram, T H. Seetaram, R P. Nagassar, R J. Bridgelal-Nagassar
- (P-25) Prevalence and Antimicrobial Susceptibility of Group B Streptococcus agalactiae among Pregnant Women from Trinidad and Tobago: A Retrospective Study
 O Sabga, D Cooper, S Hosein, R Blanc, B Mohammed, M Remy, I Soomai, C Unakal
- (P-26) Treatment Outcome of Tuberculosis Patients in Trinidad and Tobago: A Retrospective Study Z Browne, M McQuilkin, A Mustapha, R Rochard, D Sooklal, A Williamson, C Unakal

CLIMATE CHANGE AND HEALTH

(P-27) Assessment of the Level of Awareness among Family Practitioners in Trinidad on the Impact of Climate Change on Mental Health

S Maharaj, B Sankar, K Balgobin, A Hardath, W Reyes, S Hosein, A Parmanan, J Dipnarine

- (P-28) Nutrition, Sustainability, and Climate Change in the Caribbean: Engaging Dietitians and Nutritionists in Trinidad and Tobago in the Fight Against Climate Change J C John
- (P-29) Climate Change and its Effect on the Mental Health of Farmers in Trinidad & Tobago S Moore, G M. Hinkson, E T. Clarke
- (P-30) Planetary Health Knowledge and Environmentally Sustainable Practices among Emergency Medicine Practitioners in Trinidad and Tobago

 A Ali, C Carmino, A George, N Sircar, J Soodnarinesingh, V Persad, D Dookeeram, S Maharaj
- (P-31) Knowledge, Attitudes and Practices Towards Planetary Health among Medical Students at The University of the West Indies (UWI) St. Augustine Campus

 S Maharaj, R Singh, S Hariharan, J Hector, F Ali, K Samaroo, A Williams, K Jagdeo, F Young-Lau, R Rampersad

MENTAL HEALTH AND WELLBEING

- (P-32) Exploring Occupational Stress among Full-Time Police Officers: A Phenomenological Study *V Henry*
- (P-33) Exploring Immigration Policies and Crime in Trinidad and Tobago: An Analysis of the Venezuelan Registration Policy

 A Moore
- (P-35) A Post-COVID Cross-Sectional Study of Health Care Professional Burnout and Coping Strategies in North Central and Eastern Regional Health Authorities

 S Baksh, A Boland, N Bowen, N Kerr, M Tudor, R Rahaman
- (P-36) An Investigation of the Impact of La Soufriere Eruption on the Lives of Vincentians C Mitchell, D Balfour, L Campbell-George, W Chesney, E Clarke
- (P-37) Mental Health Effects of the COVID-19 Pandemic on Emergency Nurses and Doctors During and After the COVID-19 Pandemic
 S.A. Varachhia, A.S. Hasanali, A.K. Lumy, A.S. Hasanali, D.S. Ramlackhan, A.Ramoutar
- (P–38) An Exploration of how Flooding Impacts the Psychosocial Well-Being of Residents Living in Flood-Prone Communities

 M Bahall, R Rampersad, A Youksee, N Chatoorie, R Choutie, Y Singh, E Wallace, G Legall
- (P-40) Attention Deficit Hyperactivity Disorder and Associated Factors among Medical Students: A Cross-Sectional Study
 S Motilal, A Chotak, F Hoosaney, E Kistow, R Nagapen, S Ramlogan, R Ramsingh, S Sankar, V Singh
- (P-42) Older Adults' Perceptions of the Ageing Experience in Trinidad and Tobago: A Mixed-Methods Study S Bernard, D Sealy, W. L Beeson, N Modeste
- (P-43) Using Self-Reported Health to Track Changes in Population Health and Health Inequality Over a 10-Year Period

 H Bailey, B Roudijk

HEALTH SERVICES

- (P-44) An Investigation of the Venous Thromboembolism Prophylaxis Used by Accident and Emergency and Orthopaedic Physicians in Patients with Acute Trauma and Fractures/ Immobilisation of the Lower Limb in Trinidad and Tobago

 Y St George, S Adams, S Ali, S Morgan, L Khandan, C Phillip, K King, A Villarroel-Stuart
- (P-45) Time and Motion Study of the Length of Stay of Psychiatric Patients in the San Fernando General Hospital Emergency Department
 S Varachhia, C Ramcharan, S Ramkissoon, D Deokie, N Mohammed, O Baptiste, N Headley

- (P-46) Experiences of Maternity Care: The Perspectives of Healthcare Professionals, Policymakers and Clients on a Caribbean Island

 A James-Euin, W Arneaud, M Rollock, D Lewis, S Curtis, S Stalls, P Sripad, S Moffson, J Ricca, O N. Ocho
- (P-47) A Qualitative Study Exploring Patient Perceptions of Patient-Centred Care in Trinidad and Tobago Z.J. Baksh, I.Z. Bally, M.A. Jackman, J.A. John, H.D. Nagir, A.N. Sonny, R. Rahaman
- (P-48) Access to Healthcare in Adults with Intellectual and Developmental Disabilities in Trinidad: A Qualitative Study

 K.P. Mollineau, T.T. Thomas
- (P-49) Utilisation of Contact Lenses in Trinidad and Tobago
 E Bachoo, S Bachu, A Gokhool, F Khan, R Kium, S Richards, Ngozika Ezinne
- (P-50) Non-Nationals' Barriers to Health Care in Trinidad and Tobago 2023–2024: A Mixed Method Design A Bridgelal-Gonzales, M Ivey, S Saisenarine, C Ramnarine, F Rahaman, H Gokool, V Ramdhanie, V Persad, G Ramnanansingh
- (P-51) Barrier Score Index: A Key Indicator of Healthcare Access and Equity in a Resource-Limited Country M Bahall
- (P–52) Litigation: An Underutilised Quality Feedback Indicator. A Review of Court Cases in a Small Resource-Limited High-Income Country M Bahall, K Bahall
- (P-53) A Comparison of Knowledge, Attitudes, and Practices of Hand Hygiene Between In-Service Healthcare Workers at the Eastern Regional Health Authority

 R. P. Nagassar, R. J. Bridgelal-Nagassar, S. S. K. Rajkumarsingh, D. E. J. Husband, N. J. Ramsawak, F. J. Jules, S. S. Juman, S. Villafana

VETERINARY STUDIES

- (P-54) Perceived Effectiveness of Antipruritic Agents Used by Veterinarians and Dog Owners in Trinidad and Tobago

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Oral Abstracts

01

Impact of Quality and Access on Use of Routine Health Data: Concerns and Implications

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Objective: To explore the quality, access and use of routine health information systems (RHIS) data in Trinidad and Tobago.

Methods: A qualitative study utilising thematic analysis was conducted. Purposive sampling was used to recruit 23 users and producers of RHIS data to participate in key informant interviews. Online interviews were conducted using Zoom and all interviews were recorded and transcribed. Pseudonyms were used to protect participants' identity. Transcripts were cleaned and analyzed using Dedoose (v 9.0.17).

Results: Of the invited key informants, 19 were interviewed. There was significant underutilization of RHIS data beyond patient management primarily due to data access and quality challenges. Access to the data was stymied by bureaucratic processes, paper-based recording and storage systems, and ownership/security concerns. Data quality was adversely affected by lack of standardization of data collection forms and processes, training of staff, data completeness, and technological and infrastructural constraints. Key opportunities for the increased use of RHIS data included the need for a national electronic health information system, adequate training of staff involved in data management, and a comprehensive monitoring and evaluation plan.

Conclusions: For greater use in evidence-informed policy-making, the country's RHIS data governance and management system urgently need to be reviewed. The focus should be on improving data quality and access with the expedited implementation of an interoperable national electronic data recording and storage system, accompanied by investments to ensure adequate staffing, timely training, appropriate infrastructure and technological support.

O2

An Audit of Patient Satisfaction with Telemedicine at the Rheumatology Outpatient Clinic of the San Fernando Teaching Hospital

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Objective: To explore patient satisfaction with telemedicine and its associated factors at the Rheumatology Outpatient Clinic, San Fernando Teaching Hospital (SFTH), and to determine patient preference for health-related consultations.

Methods: A total of 305 patients were surveyed via consecutive sampling. Data were captured via interviewer-administered questionnaires in a clinic setting capturing demographics, challenges with face-to-face consultations, and patient perspectives on telemedicine. Items from the Telemedicine Satisfaction Questionnaire and Telehealth Usability Questionnaire were modified to capture impact. Data were analyzed using descriptive and inferential statistics (SPSS version 29).

Results: Most respondents were ≥ 40 years old (78%), Indo-Caribbean (66%), female (89%), unemployed (65%) and had secondary level education or higher (76%). The main diagnoses were rheumatoid arthritis (36.39%) and systemic lupus erythematosus (21.78%). Time-off issues (13.19%), timing inconvenience (12.5%), and traveling costs (12.5%), were identified challenges with face-to-face consultations. Fear of interaction (23.30%) and financial difficulty (23.08%) which widely resulted from COVID-19, were additional challenges. Most patients reported satisfaction with telemedicine (71.4%), relating to easier access to health services (65.9%). Combined telemedicine and faceto-face consultations as appropriate were the most preferred option (73.40%). Patient satisfaction was highest in females (p <0.05), person with tertiary level education (p < 0.05) and those who were single (p = 0.005). There was also a higher level of satisfaction in persons who were employed part-time (p < 0.05), received no time-off (p = 0.001) and were negatively affected by the pandemic (p < 0.05). Telemedicine convenience was a significant predictor of patient preference for health-related consultations (*p*<0.001).

Conclusions: Patients are satisfied with the telemedicine service at the Clinic. Telemedicine convenience is significantly associated with patient satisfaction and preference for health-related consultations.

O3

Exploring Factors Affecting Technological Acceptance Among Healthcare Professionals: A Systematic Review

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Objective: To identify the prevailing technology acceptance models and theories and key factors influencing technology acceptance among healthcare professionals.

Methods: A systematic search was conducted following the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines. The review included articles published between January 2019 and December 2023, selected based on inclusion criteria and relevant keywords. Databases used for the search included Emerald Insights, Science Direct, Multidisciplinary Digital Publishing Institute (MDPI), ProQuest, PubMed, and IEEE Xplore. To ensure the validity and reliability of the findings, four researchers independently participated in the data extraction and analysis processes. The analysis process followed a narrative synthesis which was reviewed by each researcher and one external reviewer. A standardized extraction form was also employed to ensure that the data aligned closely with the study's objectives.

Results: After screening and review, 129 articles were found to meet the study's inclusion criteria. The Technology Acceptance Model (TAM) and the Unified Theory of Acceptance and Use of Technology (UTAUT) emerged as the most frequently utilized frameworks for explaining technology acceptance among healthcare professionals. Furthermore, the analysis revealed that perceived usefulness, perceived ease of use, lack of skills, user attitudes, and technology infrastructure were the five primary factors influencing technological readiness.

Conclusion: Understanding these frameworks and technological readiness factors can help policymakers and health-care professionals develop initiatives and policies to encourage effective technology adoption and use among healthcare professionals in various settings.

O4

A new digital platform for EQ-5D-5L Valuation studies creates opportunities for using health outcomes and QALYs in the Caribbean.

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Objective: EuroOol 5 Dimension (EQ-5D) health outcomes measures are increasingly used in clinical practice, research and health policy in developed and developing countries. In many health systems, drugs and health technologies are evaluated using cost per Quality Adjusted Life Years (QALYs) based on their national EQ-5D value-sets (country-specific QALY-adjustment values). The current valuation protocol to create an EQ-5D-5L value set required 1,000 interviews (minimum) with highly trained/specialized interviewers (not feasible in many small-developing countries). The objective of this study was to test a novel approach to developing an EQ-5D-5L value set using a fully online (no interviewer) approach.

Methods: In 2022/23 an EQ-5D-5L value set was created for Trinidad and Tobago using the standard protocol (Euro-Qol Valuation Technology (EQ-VT)) with a representative sample of 1,079 respondents. A separate representative sample of 970 respondents completed a fully on-line set of 18 paired comparisons (Discrete Choice Experiment (DCE)-duration) in which they selected their preferred EQ-5D-5L state-duration combination from each pair. The state-duration pairs were based on an efficient discrete choice-experiment design. Regression analysis was used to fit the DCE-duration value set. The DCE-duration value set was compared with the EQ-VT value set using scatterplots, Bland-Altman plots, and correlation coefficients.

Results: Scatterplots and Bland-Altman plots showed very similar results for the two value sets. The correlation coefficient was 0.973. The ordering of dimensions was identical for the two sets.

Conclusion: DCE-duration offers a cost-effective approach for developing EQ-5D-5L value sets. This has important implications for the Caribbean region as it creates the opportunity to introduce QALY-based analyses in clinical, research and policy work.

O5

Religious Coping and Mental Health During the COVID-19 Pandemic: A Study from Trinidad and Tobago

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Objective: To determine whether persons who identify as religious coped better and were at lower risk of anxiety and depression during the first COVID-19 pandemic lockdown in Trinidad and Tobago.

Methods: A cross-sectional study, using an adapted pretested online survey instrument, was conducted amongst adults using convenience sampling. RedCap was used for data collection and data were analysed using chi-square tests and presented as Odds Ratio (OR) (95% Confidence Interval (CI)).

Results: Majority of respondents (88%) identified with a religion and were significantly more likely to rate religion as important in their lives than those with no religion (p<0.001). Persons who regarded religion as important were significantly less anxious (OR = 3.4, 95% CI [2.4, 4.6]), and depressed (OR=3.8, 95% CI [2.8, 5.2]) during the lockdown, than those who described religion as unimportant. Degree of importance mattered as those reporting religion as very important were significantly less likely to be anxious (OR = 0.6, 95% CI [0.5, 0.9]) or depressed (OR = 0.6, 95% CI [0.4, 0.8]) than when religion was somewhat important. Religious persons were also more likely to report positive experiences during the pandemic.

Conclusions: In Trinidad and Tobago, religious persons coped better during the COVID-19 pandemic. This has implications for the use of religious coping at times of national crises. Future research should explore the nature of the association between religion and mental health and the use of religious coping as a therapeutic intervention.

O6

Knowledge, Attitudes and Practices of Emergency Physicians in treating Sexual Assault Patients presenting to the Emergency Departments in South Trinidad

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Objectives: To assess the Knowledge Attitudes and Practices, (KAP) of doctors in treating Sexual Assault, (SA) patients in Emergency Departments (ED) in South Trinidad, and to suggest recommendations, based on gaps identified.

Methods: A cross-sectional survey was conducted between 10th - 24th July 2023 involving106 ED doctors employed at five EDs in South Trinidad. A 20-point questionnaire explored participants' profile, KAP and recommendations for improved care. It was distributed via Google Forms. Descriptive analysis was performed on data collected using Microsoft Excel.

Results: A total of 102 ED doctors participated in this study. The results indicated that most (81.2%) of participants were not formally trained to treat SA patients and 73.3% were unaware of policies guiding management of SA patients. None of the participants felt "very prepared" when treating SA patients unsupervised. The top three recommendations were training (25%), protocols (23%) and specified physicians for the assessment of SA patients (20%). About 96% agreed to accept training if offered while 98% believed a specialized SA examiner would provide the best care to SA patients.

Conclusion: This study revealed that there is room for improvement in the KAP of ED doctors treating SA patients in South Trinidad and participant's willingness to improve practices. Training, standardized protocols and specialized SA examiners may improve the care of SA patients in South Trinidad.

O7

Perceptions of Workplace Violence and Safety in the Emergency Departments: A Survey of the Staff of the Emergency Departments in the South-West Regional Health Authority

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Objective: To assess the perceptions of workplace violence (WPV) and safety among various categories of Emergency Department (ED) staff.

Methods: A cross-sectional descriptive study was conducted on 317 staff from the five EDs of the South-West Regional Health Authority. It was performed between January to March 2021 using a questionnaire which included demographics, safety, prevalence, perpetrators, effects and reporting of WPV. The data were analysed using SPSS (Version 22.0).

Results: The prevalence for WPV was 20.5% for physical abuse (PA), 56.5% for major verbal abuse (VA) and 84.2 % for minor verbal abuse (mVA). Most incidents occurred between 2pm-10pm, PA (50.8%), VA (62.6%) and mVA (61.5%). Perpetrators were most likely to be patients

[PA (80.0%), VA (49.2%), mVA (59.9%)] and males [PA (84.6%), VA (64.8%) mVA (48.7%)]. Most perpetrators of PA (63.1%) and VA (54.2%) were believed to be intoxicated by drugs or alcohol and psychiatric or confused patients [PA (69.8%)]. Productivity was significantly affected by PA (46.2%) and VA (41.9%). Nurses reported the highest rates of absenteeism due to WPV [PA (60%), VA (29.3%) and mVA (11.7%)]. Many staff did not report WPV incidents (41.0%). Most participants (67%) did not feel safe in the ED.

Conclusions: WPV events were prevalent in the ED and were more likely to occur between 2pm to 10pm. The risk factors for perpetrators were patients, male, intoxication and psychiatric or confused persons. Additionally, most ED staff felt unsafe and WPV incidents significantly affected absenteeism, productivity, and psychological health of staff but were often under-reported.

08

An Analytical Study on Catheter Related Complications and Quality of Life Assessment in Outpatients with a Long-Term Indwelling Catheter

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Objective: To determine prevalence of indwelling catheter (IDC) related complications and associations with quality of life (QOL) in outpatients with IDCs in Trinidad, and to determine self-reported adequacy of patient education on catheter care.

Methods: A cross-sectional study was conducted at urology clinics across Trinidad. A researcher-assisted questionnaire was used to collect data on QOL, IDC-related complications, adequacy of education on catheter care, social life, self-awareness, and adaptation. QOL was measured using the International Consultation on Incontinence Questionnaire-Long Term Catheter quality of life (ICIQ-LTCqol), which had a maximum score of 45. The results are presented using descriptive statistics.

Results: A total of 384 outpatients completed the questionnaire comprising 82.3% males and most (81.8%) were aged 61-70 years. Prevalence of catheter related complications was 60.4%, including 45% with reported catheter-associated urinary tract infections (CAUTIs). In addition, 70.6% reported pain/discomfort, 58.3% revisited the hospital for additional catheter care, and 21.9% were hospitalized for 1-2 days. Only 21.6% of patients indicated that they were adequately informed on proper catheter care, including 18.1% of those who had complications. Mean QOL score was 20.72; and patients with complications had lower scores than those without. Patients reported feeling embarrassed around family (77.8%), preferring to stay home as they felt judged in public (74.2%), interacting less with friends and family (69.5%), that their sex life/intimacy was affected (52.9%), and needing psychological support from friends and family (57.8%).

Conclusion: The high prevalence of catheter-related complications and a poor quality of life can be improved with better outpatient education on catheter care.

09

Nasal, lungs and intestinal aerobic bacterial flora in wild Black-eared Opossums (*Didelphis marsupialis*) in Trinidad, West Indies.

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Objective: The meat of the black-eared opossum is considered a delicacy by certain sections of the Trinidad and Tobago population, thus it is highly sought after and hunted. Due to its close association with human habitats and being a food source, it is critical to investigate its potential role in the dissemination of zoonotic microorganisms. This study sought to identify the bacterial microflora found in the nasal cavity, lungs and gastrointestinal tracts of opossums.

Methodology: Nasal swabs, lung and intestinal samples were collected from 64 non-diseased opossum carcasses. Samples were collected via field necropsy and transported back to the laboratory where they were processed and submitted for microbiological identification using conventional culture and biochemical techniques. Data were tabulated using Microsoft Excel and descriptive statistical analysis was done using SPSS (version 24).

Results: A total of 607 bacterial isolates were recovered, with most isolated from the large intestine (244; 40.2%),

small intestine (235; 38.7%), nasal cavity (123; 20.3%) and lungs (5;0.8%). *Escherichia coli* was the most common organism isolated (100;16.5%). Bacteria were only recovered from five pneumonic lung samples which were confirmed histologically. Similar bacterial species from the pneumonic lung were present in the nasal cavity samples. *Salmonella* spp. was recovered from eight animal intestines. *Shigella* spp was retrieved from 5 intestinal samples.

Conclusion: The black-eared opossum can harbour many bacterial pathogens including *Salmonella* and *Shigella spp* which were recorded for the first time in this species in Trinidad. Therefore, persons involved in handling opossum carcasses thus need to ensure hygienic practices are involved to limit transmission.

O10

The utility of shock index in predicting mortality in adults presenting to emergency departments with sepsis.

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Objective: To evaluate the predictive value of a shock index (SI) of >1 in predicting mortality in adult patients presenting to emergency departments (EDs) with sepsis, compared to those with an SI =<1.

Methods: A prospective observational study was conducted in the EDs of the South-West Regional Health Authority from October 2022 to March 2023, recruiting patients with sepsis. Demographic data, vital signs, SI, comorbidities, treatment, source of sepsis and outcomes (primarily in-hospital mortality) were recorded. Logistic regression (including odds ratio) using the Wald test and Receiver operating characteristic (ROC) analyses were done to examine how SI predicted mortality.

Results: A total of 221 patients with sepsis were included in the final sample, where 25% had a SI >1, and 75% had a SI < 1. SI > 1 significantly predicted mortality (p = .001, OR = 3.62), after controlling for gender, age, and comorbidities. For different sources of sepsis, SI > 1 was significant in predicting mortality in respiratory (p = 0.001, OR = 3.37) and skin/soft tissue infections (p = 0.04, OR = 9.33), but not in intra-abdominal (p = 0.17 OR = 3.25) and urinary tract infections (p = 0.77, OR = 1.50). ROC analysis showed that SI was a poor discriminator of in-hospital mortality when the raw value of SI was use.

Conclusion: An SI > 1 is a good predictor of in-hospital mortality in patients with sepsis, especially in respiratory and skin/soft tissue infections, but values < 1 should not be considered reassuring.

O11

Impact of COVID-19 on Voice, Speech and Swallowing Function: An Analysis of the United States National Health Interview Survey

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Objective: Emerging evidence indicates a possible link between COVID-19 infection and deficits in communication and swallowing functions. However, population-level research is necessary to understand the broader clinical impact of the virus. This study aims to determine whether previous COVID-19 infection predicts the likelihood of developing voice, swallowing or speech impairments.

Methods: Data were analysed from the 2022 National Health Interview Survey incorporating COVID-19-related questions and an Adult Voice, Speech and Language Disorders Supplement. The study focused on adults in the United States aged 18-70 years (n=19,684) using sampling weights for representative estimates. Logistic regression models assessed the relationship between COVID-19 history and self-reported impairments.

Results: Of the respondents, 31.19% self-reported a COVID-19 infection with 38.85% confirmed via polymerase chain reaction testing. Among these, 12.48% reported voice problems, more prevalent in those with confirmed COVID-19 (OR = 1.41; 95% CI: 1.22-1.63). Swallowing impairments affected 6.14% respondents, with COVID-19 history significantly increasing odds (OR = 1.57; 95% CI: 1.29-1.92). Speech issues were reported by 4.41%, with older age and poorer health as predictors alongside increased odds associated with COVID-19 diagnosis (OR = 1.34; 95% CI: 1.05-1.70).

Conclusions: Findings suggest that COVID-19 history may be associated with higher odds of voice, swallowing and speech impairments. Future research should investigate the severity of COVID-19 symptoms in relation to communication and swallowing. Integrating COVID-19 modules into other global health surveys such as the WHO STEP-wise Survey which was recently relaunched in Trinidad and Tobago by the Ministry of Health, could help facilitate targeted interventions for COVID-19 rehabilitation.

012

Trends and Socio Demographic patterns in HIV knowledge among young women 15-24 years in Trinidad and Tobago - Evidence from the 2011 and 2022 Multiple Cluster Indicator Surveys

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Objective: To describe the levels and socio-demographic patterns of HIV knowledge among young women aged 15-24 years.

Methods: Data from Multiple Indicator Cluster Survey conducted in 2011 and 2022 were used to examine Comprehensive HIV Knowledge among young women 15-24 years. Patterns and trends were examined using proportions for two years. Socio-demographic variables included Regional Health Authority, area of residence, age group, marital status, education, ethnicity and socio-economic status or wealth quintile.

Results: Overall comprehensive knowledge of HIV among young women was low in 2022 and showed a decline from 60.2% in 2011 to 38.1 % in 2022. HIV knowledge declined for each socio- demographic variable. In 2011, HIV knowledge was highest in Eastern Regional Health Authority (76.1%) whereas in 2022, Southwest showed the highest level (45.1%). HIV knowledge was higher in rural communities compared to urban areas in both survey years - 63.5 vs 57.7% (2011) and 41.5 vs 35.6% (2022). Persons who were ever married showed higher knowledge. Young women in the poorest wealth quintile (31%) had the lowest level of HIV knowledge in both survey years while young women of African descent showed the highest level (63%) in 2011 and East Indian young women (40.7%) in 2022.

Conclusions: There is need on raising HIV knowledge among young women who are at risk of HIV infection especially the least educated, and the poorest. Strategic communication campaigns should be designed to reach these vulnerable populations. Future research would require examining the predictors of HIV knowledge.

O13

Comparing the diagnostic accuracy of the revised Geneva score versus the Wells score in diagnosing pulmonary embolism in a Trinidadian population

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Objectives: To compare the diagnostic accuracy of the revised Geneva score (rGs) versus the Wells score (Ws) in diagnosing pulmonary embolism (PE) in a Trinidadian population.

Methods: A prospective cohort of 378 adult emergency department (ED) patients presenting to the San Fernando

General Hospital (SFGH) with suspected PE who underwent computed tomography pulmonary angiography (CTPA) from May 12th, 2022 to January 31st, 2023 were recruited. Patients' demographics and clinical data were collected using physician-administered questionnaires. The Ws and rGs were calculated, and patients were risk-stratified. CTPA was the gold standard diagnostic test used to diagnose a PE. Data was analysed using SPSS 28.0. Pearson's χ^2 and Fisher's exact tests were used for comparisons of patient characteristics with and without PE. Parameters of both clinical decision rules (CDRs) were assessed using odds ratios (95% CI). Diagnostic performances of both scores to predict PE were assessed by receiver operating characteristic curve analysis.

Results: Of the 378 patients enrolled in this study, 370 had definitive CTPA results. Most patients were less than age 65 years (n = 273, 73.8%) and female (n = 262, 70.8%). Seventy-seven patients (20.8%) had CTPA-confirmed PE. Sensitivity and specificity of the Ws were 0.649 and 0.563 respectively. Sensitivity and specificity of the rGs were 0.922 and 0.130 respectively. The area under the curve (AUC) of the Ws was greater (0.606) than the rGs (0.526). Optimal cut-off point for the rGs was found to be 5.

Conclusions: Both CDRs performed suboptimally in the local population. However, the Ws had greater diagnostic accuracy than the rGs for identifying PE. Both scores had similar predictive performances at the optimal cut-off point of 5 for the rGs.

014

Oral Health Knowledge, Attitudes and Practices among people living with Diabetes in Trinidad: Preliminary findings

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Objective: To determine the oral health knowledge, perceived oral health status and self- reported dental problems among people living with diabetes (PLWD).

Methods: Data were collected using a modified version of a validated self-administered questionnaire which was administered to 200 PLWD attending outreach events in Trinidad hosted by the Diabetes Association of Trinidad and Tobago (DATT). It captured demographics, attitudes, knowledge and behaviour towards dental health. The data were analysed using IBM SPSS Statistics 29.0.

Results: Of the 200 participants, 65.5% were females, 60.4% were Indo-Caribbeans and 67.5% reported Type 2 diabetes. The average age was 59.93±11.39 years. About 52.5% were unsure or thought that diabetes did not affect oral health whereas 32.6% were unaware or unsure that dia-

betes medication caused dry mouth. Furthermore, 60.4% were unsure or unaware that dry mouth could cause tooth decay and 71.4% were unsure or did not believe that gum disease could affect blood glucose control. Additionally, 44.4% did not know whether treating gum disease could help with glucose control, 78.5% felt visiting a dentist was very important, 82% strongly agreed that oral health was as important as general health and 53% of participants visited a dentist within the last 12 months. About 46% rated their oral health as fair or poor.

Conclusions: Oral health knowledge among PLWD in Trinidad may be lacking in key areas, particularly the importance of periodontal health. PLWD may benefit from oral health promotion initiatives to improve oral health knowledge and dental attendance.

015

Nutritional Impact Symptoms and Dietary Changes During Cancer Treatment: A Qualitative Analysis (Preliminary Results)

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Objective: To investigate nutritional impact symptoms, dietary habits and dietary adjustments of cancer patients during treatment in Trinidad.

Method: An exploratory qualitative study was conducted, targeting 15 cancer patients from non-profit organizations, aged 20-80 years, diagnosed within the last five years, and undergoing treatment. Data were collected about participants' experiences with dietary changes and nutritional needs using semi-structured, face-to-face interviews which were recorded and transcribed. Thematic analysis was conducted using *Dedoose* software.

Results

- Eight participants were interviewed, from which three major themes emerged: Nutrition Impact Symptoms (NIS), Dietary Changes, and Lack of Information.
- Nutrition Impact Symptoms Participants experienced a combination of symptoms during treatment: nausea, metallic taste, constipation, fatigue, and loss of appetite, taste and smell.
- Dietary Changes Changes reported in portion sizes and meal frequency. Intake restrictions noted for: flour, sugar,

- processed foods, artificially flavored foods/beverages, and meats (chicken, beef and pork). Participants introduced herbal teas, prune juice, lime water, various fruits, ground provisions, chickpeas, and fish into their diet.
- Lack of Information Dietary guidance was not received from healthcare professionals; participants relied on personal research, information from other cancer patients and support groups.

Conclusion: Cancer patients undergoing treatment experienced NIS leading to changes in dietary habits and nutritional intake. Nutritional and dietary guidance and support should be an area of greater focus from healthcare providers as part of integrated treatment and care.

O16

An Examination of Food Insecurity among Students at The University of the West Indies St Augustine Campus: Is There a Need for a Students' Food Pantry?

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Objective: To examine the prevalence and levels of food insecurity among students at The University of the West Indies, St. Augustine Campus, and assess the need for a student food pantry.

Methods: A cross-sectional study recruited a convenience sample of 422 students, aged 18 years and older, from the University of the West Indies, St. Augustine Campus. Data were collected via an online self-administered questionnaire. Food insecurity was evaluated using the Food and Agricultural Organization (FAO) Food Insecurity Experience Scale. The food pantry needs assessment included one qualitative and eight quantitative questions. Descriptive statistics were used for statistical analyses with SPSS version 29.

Results: A total of 418 students participated, with a mean age of 23.56 ± 6.96 years, achieving a 99% response rate. Notably, 29.6% of students supported five or more dependents. The study revealed that 75.1% of students experienced some level of food insecurity: 24.9% were food secure, 33.3% mildly food insecure, 27.1% moderately food insecure, and 14.7% severely food insecure. Although 81.8% of students expressed a need for a student food pantry, only 20.3% would use it frequently. Reasons why students would not use a food pantry included operational efficiency, pantry funding and stocking, and potential misuse of resources, with a noted lack of awareness about the pantry's existence and function.

Conclusions: There was a pronounced prevalence of food insecurity among students at the University of the West Indies, St. Augustine Campus. A significant majority expressed a demand for a campus food pantry to help alleviate food insecurity issues.

Poster Abstracts

P1

Perceptions of HealthCare Workers and Patients on the Implementation of Health Information Technology in a Secondary and Primary HealthCare Setting in East Trinidad.

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Objective: To explore healthcare workers' (HCWs) and patients' perceptions regarding the implementation of health information technology (HIT) in a secondary care setting in East Trinidad.

Methods: A cross-sectional survey was conducted in a public secondary and primary healthcare setting in East Trinidad. Outpatients (384) and HCWs (74) were conveniently sampled, and interviewer-administered questionnaires were employed to solicit their perceptions. Descriptive analyses were conducted using Excel.

Results: Of the 384 patients, 72.2% were female, the modal age group was 50+ years (53.6%), 36.4% were of East Indian ethnicity, and 45.1% attained secondary school education. Patients reported having access to a smartphone (82.8%) or laptop/desktop (43.5%) and were knowledgeable of its use, (81.3% and 48.3% respectively). Patients' expectations of the impact of HIT included more convenience/less wait time (75.3%), increased efficiency of services (56.5%), and transportation cost savings (52.3%). Concerns included data privacy (31.3%) and cybercrime (21.1%). Of the 74 HCWs, the modal age group was 25-39 years (54.1%). Perceived benefits by the HCWs were quick access to information (97.3%), reduction in redundancies of laboratory, pharmacy, and radiology services (87.8%), increase in the speed of service delivery (86.5%), and improved data sharing (89.3%). Concerns included cybersecurity (74.7%), the need for hardware and internet connectivity for staff (74.6%) and patients (64.3%), staff training (57.3%), and increased workload (30.7%).

Conclusions: Addressing the concerns of patients and HCWs can guide change management efforts to achieve the benefits of HIT sustainably.

P3

Knowledge and Attitude toward Artificial Intelligence and its future in Medical Education as perceived by Medical Students at The University of The West Indies, St. Augustine Campus

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Objective: To determine whether age, gender, and academic year of study were associated with knowledge and attitudes toward Artificial Intelligence (AI) among medical students at The University of the West Indies, St. Augustine Campus, **Method:** An online cross-sectional survey was conducted among 319 medical students recruited through convenience sampling. Survey instruments were pilot-tested, and the responses were analyzed using chi-squared (γ 2) tests.

Results: The students had an understanding of AI principles (85.3%), nomenclature (77.1%) and its limitations (74.3%), with no significant differences by sex (p>0.05). They had great confidence in using AI-driven resources. Second-year females in 20-24 age group (p<0.05) had the lowest attendance at online courses. Most participants felt neutral about AI increasing diagnostic errors. Most disagreed that AI would be more accurate than physicians. Students agreed (74.9%) that AI would revolutionize education and play an important role in healthcare (72.1%). However, they would like to choose whether or not to use AI in their practices (79.0%).

Conclusion: Findings suggest a consistent understanding of AI principles across all demographics while having a positive attitude toward AI's utility in medical education. Students believed AI in the future would revolutionize the medical education system.

P4

Telehealth Beliefs, Expectations, and Curriculum Readiness: Perspectives of Tertiary Nursing Students in Trinidad and Tobago

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Objective: We aimed to investigate nursing students' perceptions of telehealth, their readiness, expectations, and the extent to which they believed their educational curriculum was preparing them to effectively transition to working in a telehealth environment.

Methods: A qualitative exploratory, case study was conducted using eight focus group discussions via Zoom comprising 6-10 nursing students from four (4) year groups. Purposive sampling was utilized and data were recorded, transcribed, and analyzed using thematic analysis.

Results: The following six themes emerged from the analysis: perceptions and awareness of telehealth, benefits and beliefs about telehealth, telehealth challenges, curriculum readiness and training needs, expectations of telehealth, and the future of telehealth. Students expressed varying levels of telehealth awareness and felt unprepared to work in a telehealth setting. Telehealth was seen as increasing healthcare access, particularly for those patients in remote areas. Students shared a preference for traditional in-person visits when compared to telehealth as they were concerned about the thoroughness of telehealth assessments, which they viewed as a challenge for healthcare providers. While they acknowledged receiving instruction in a foundational telehealth course, they felt that the current curricula must be strengthened to better prepare future nurses in telehealth competencies.

Conclusions: Telehealth will play a major role in the future of nursing practice, consequently, there must be greater acceptance among nursing students. To achieve this, nursing education institutions must integrate telehealth-specific content, implement policy and curriculum changes within their programs, and prepare nurses to lead, advocate, and specialize in telehealth skills and competencies.

P5

A Systematic Review to Compare Conventional Therapies Plus Natural Products with Conventional Therapies Only for Breast Cancer Treatment

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Objective: To compare conventional therapies plus natural products (CT+NP) with conventional treatments (CT) only for breast cancer in females.

Methods: Randomised controlled trials published from the past 10 years were sourced from PubMed/MEDLINE, ClinicalTrials.gov and Cochrane CENTRAL using key terms related to breast cancer and natural products. Articles were reviewed to identify studies comparing CT-NP (e.g. Traditional Chinese Medicine (TCM), herbal supplements (HS), and plant extracts with CT (chemotherapy, surgery, radiotherapy). Outcomes included adverse events (AEs), quality of life (QoL), chemotherapy-induced peripheral neuropathy (CIPN), tumor response rates (TRR), and wound healing. Findings were synthesised narratively; no meta-analysis was conducted.

Results: Fourteen studies were identified and the findings were varied. For TCM, Huangqi Guizhi Wuwu Decoction significantly reduced CIPN sensory and motor scores (p<0.001) and improved QoL while Zhikang capsules promoted wound healing post-mastectomy (p<0.05). In HS, Persumac reduced nausea and vomiting in both acute and delayed phases of chemotherapy (p<0.05). Significant improvements in blood glucose and insulin sensitivity were reported with treatment using high levels of onion (p<0.05). Improved QoL and a higher TRR were observed in patients treated with Nano Swarna Bhasma. Ginger (p=0.006), and ginger and chamomile (p<0.0001) significantly reduced vomiting frequency, while Boswellia cream decreased radiation erythema intensity (p=0.009). However, most trials indicated no significant difference in adverse events, toxicity, or symptom severity compared with conventional therapies.

Conclusions: This review suggests that some NP may offer benefits in relieving side effects of CT for breast cancer. However, further large-scale clinical research is recommended to confirm these findings and to establish their safety and efficacy.

P6

Cervical Cancer Screening Uptake and Associated Factors at Primary Care Facilities in Peripheral Settings in Ethiopia

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Objectives: Despite efforts to increase screening for cervical cancer, its use remains low in developing countries. This study assessed cervical cancer screening uptake and associated factors among age-eligible women at selected health centers in peripheral Ethiopia.

Methods: A facility-based study was conducted on 941 women in 2023, using systematic random sampling. Data collection involved interview-administered questionnaires by trained nurses and in-depth interviews. Descriptive statistics and logistic regression were used to analyze questionnaire data, with statistical significance set at p<0.05. Qualitative data were analyzed using thematic content analysis.

Results: The sample comprised 941 women (100%) response rate). The results showed that 24.97 % (95%CI: 22-28) of women were screened for cervical cancer. Logistic regression identified higher educational level [Adjusted Odds Ratio (AOR)=3.2, (95%CI: 1.46-7.07)], early age at first sexual intercourse [AOR=0.49, (95%CI: 0.32-0.75)], knowledgeable about cervical cancer screening [AOR=2.66, 95%CI: 1.82-3.89)], having favourable attitude [AOR=3.91, 95%CI: 2.61-5.84)] and social support [AOR=2.01, 95%CI: 1.32-3.05)] as associated with low uptake of cervical cancer screening. Insufficient availability of equipment, limited accessibility of services, lack of awareness, inadequate competence of providers, and lack of trust and attention from trained providers were additional barriers identified with in depth interviews.

Conclusion: Programs to improve cervical cancer screening services should prioritize factors associated with low uptake; culturally appropriate and accessible screening methods to meet the national and global elimination targets. The training of health extension workers in cervical cancer screening could improve community awareness of the benefits of screening, resulting in increased screening uptake.

P7

Exploring the Knowledge, Attitudes, and Behaviours of **Individuals with Non-Communicable Diseases Towards** Maintaining a Plant-Based Diet

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Objective: To determine the knowledge, attitude and behaviours associated with maintaining a plant-based diet in persons with non-communicable diseases (NCDs)

Methods: A concurrent mixed-methods study with participants ≥18 years, diagnosed with one or more NCDs in Trinidad and Tobago was conducted. Data were collected using a Knowledge, Attitudes and Behaviours (KAB) survey of 257 participants selected via convenience sampling and six semi-structured interviews conducted via Zoom using snowball and purposive sampling. Quantitative data were analysed using analysis of variance and qualitative data underwent thematic analysis. Both data sets were integrated at the data analysis phase.

Results: Survey data indicated low to average knowledge scores and average attitude and behaviour scores among participants which differed with demographics. Knowledge of plant-based diet was highest for males, persons with primary school education, and those with household income less than \$5000 per month. For attitudes, this was highest for young persons (18-35), women, those without formal education, and those with \$5000-10,000 household income. Moreover, behaviours related to plant-based diets were highest for persons aged 26-35, for males, persons with no formal education, and those with \$10000-\$15,000 household income. Qualitative data revealed perceptions, behaviours, lifestyle modification, and cultural influences on diet. Barriers included economic factors, reliance on physicians, and a lack of education.

Conclusions: Findings suggest the need to increase knowledge sensitization on plant-based diets among diverse social groups and to improve attitudes and perceptions by being aware of the personal and cultural influences sustaining these.

P8

Assessing Compliance with Recommended Lifestyle Changes among Adults Diagnosed with Metabolic Syndrome at an Outpatient Clinic in Trinidad

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Objective: To assess the compliance with recommended lifestyle changes of adult patients diagnosed with metabolic syndrome (MetS) at a medical outpatient clinic in Trinidad. **Methods:** A sample of 249 patients, \geq 18 years, attending outpatient clinics at Sangre Grande Hospital in Trinidad were recruited in a cross-sectional study. Intervieweradministered questionnaires were used to gather data which encapsulated demography, diagnoses, lifestyle pre-diagnosis and changes made post-diagnosis. Data were analysed using descriptive statistics in SPSS.

Results: From the sample, 118 patients (47.4%) met the National Cholesterol Education Program's Adult Treatment Panel III criteria for MetS. Of those, 8.4% (21) persons had been diagnosed. The average respondent age was 60 years, with patients 65 years and above being the largest age group (41.88%). Hypertension was the most prevalent condition among MetS participants (90.7%). Females constituted the majority of the respondents (55.9%) while East Indians comprised the largest ethnic group, followed by Africans and Mixed. Among patients with MetS, 28% complied with exercise recommendations after MetS-associated non-communicable disease diagnosis and 95.8% had at least one positive diet change post-diagnosis. Smoking and drinking habits decreased among patients after diagnosis, from 26.3% to 14.4%, and from 39% to 17.8%, respectively. Overall, 72.6% of persons with MetS were compliant with the recommended lifestyle changes.

Conclusions: Adults diagnosed with metabolic syndrome showed a high compliance with dietary changes, while there was a lower compliance with exercise recommendations. This information can aid in developing management interventions for patients with chronic conditions.

P9

Socioeconomic Determinants of Cardiovascular Disease: A Systematic Review

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Objective: To examine the association between socioeconomic status (SES), encompassing income, educational attainment, and employment status, and the incidence of cardiovascular disease (CVD) in adults.

Methods: Cohort studies were identified from PubMed, Web of Science and UWIlinC from 2014 to May 2024 using keywords "educational attainment", "income", "employment status", "cardiovascular disease" and "adult" as well as their synonyms. Articles were screened by title, abstract and subsequently full-text for inclusion by paired reviewers and quality assessed using the Newcastle-Ottawa Scale.

Results: Twenty-five eligible studies were included in this systematic review, assessing the influence of income (32%), educational attainment (28%), employment status (12%), and multiple socioeconomic factors (28%). SES was found to be inversely related to CVD incidence. Low income, low educational attainment and unemployment were shown to be associated with increased prevalence of modifiable CVD risk factors such as smoking, poor diet, physical inactivity, hypertension and diabetes. Low SES was also linked to health-risk behaviours such as decreased health vigilance, delays in seeking medical care, and poor medication compliance. Unemployment exerted the greatest influence on CVD incidence, followed by low educational attainment and low income. Income was a more sensitive predictor of CVD risk in women, while high-risk occupations for heart disease exerted an elevated influence on men.

Conclusions: Low SES is associated with an increased incidence of coronary heart disease, ischemic and haemorrhagic stroke. Consideration of socioeconomic factors may improve long-term CVD disease risk calculation and guide public health interventions.

P10

Knowledge, Attitudes, Practices, and Beliefs of Complementary and Alternative Medicines used by Cardiovascular Patients, and its Impact on Lipid Profile, Body Mass Index and Blood Pressure in an Outpatient Clinic in Trinidad and Tobago

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Objective: To determine the knowledge, attitudes, practices, beliefs (KAPB) of Complementary and Alternative medicines (CAMs) among cardiology outpatients, and the association between its use and lipid profiles, blood pressure and body mass index (BMI).

Methods: A cross-sectional study utilising convenient sampling was conducted amongst patients at the adult Cardiology Clinic, Eric Williams Medical Sciences Complex. An interviewer-administered questionnaire comprising 27 questions on KABP of CAMs was utilised, and lipid profiles, blood pressure measurements and body mass index (BMI) were collected from the patients' records. Analyses were conducted using IBM SPSS Statistics (Ver 29).

Results: Of 193 participants, 53.4% were males, 62.2% were >60 years of age, 43.0% were Christians 39.4% were overweight, 47.2% were diagnosed with a cardiovascular disease for <5 years and 31.6% used CAMs. Only 3/20 CAMs known to treat cardiovascular disease were identified by >50% of CAM users. Only 26.4% felt comfortable telling their healthcare providers about using CAMs, and 20.7% believed that CAMs can be used safely with prescribed medications. Garlic (54.8%) and ginger (53.2%) were the most popular CAMs used and boiling (60.3%) was the most common method of preparation. CAM usage was independent of age, gender and number of years diagnosed. There was no significant reduction in BMI, blood pressure and lipid profile among users of CAMs when compared to non-users.

Conclusions: Although 31.6% of participants used CAMs, no benefit was reflected in lipid profiles, blood pressure and BMI. Further research is needed to determine the efficacy and potential mechanisms of CAMs.

P11

A Comparative Analysis of the Management of Type 2 Diabetes Amongst Type 2 Diabetic Patients Before and During the COVID-19 Pandemic in Trinidad

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Objective: To analyze the impact of the Covid-19 pandemic on Type 2 diabetes mellitus (T2DM) management in Trinidad and propose mitigation strategies for controlling T2DM during future pandemics and for general long-term management.

Methods: A cross-sectional study was conducted at three Chronic Disease Clinics under the North Central Regional Health Authority, evaluating 165 T2DM patients selected through convenience sampling. Physical questionnaires with demographic data and 45 closed-ended questions assessed self-management practices, risk factors, and healthcare availability pre- and post-pandemic. Data analysis included descriptive statistics using IBM SPSS v29.

Results: Among the 165 participants, 59% were male and the majority (62%) aged 60-80 years. Most (93%) reported managing T2DM was more challenging during the Covid-19 pandemic, with key issues being limited healthcare access (25%), difficulty obtaining medications (23%), reduced physical activity (19%), maintaining a healthy diet (17%), and financial challenges (16%). Additionally, 40% experienced diabetic complications, mainly foot (38%) and eye problems (35%). Of those who contracted Covid-19, 62% reported severe symptoms, including delayed recovery (46%), hyperglycemia (23%), long Covid (19%), and respiratory distress (12%). All reported a lack of diabetic management resources, and 71% had no self-management support during the pandemic.

Conclusions: The Covid-19 pandemic impacted Type 2 diabetes mellitus management in Trinidad, highlighting gaps in healthcare accessibility, the need for improved management strategies for diabetic patients, and the implementation of mitigation strategies, including diabetic education programs, technology investments, and telemedicine services.

P12

Factors Associated with Oral Health-Related Quality of Life of Persons with and without Diabetes in Trinidad & Tobago

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Objective: To identify demographic and lifestyle behaviors associated with oral health-related quality of life (OHRQoL) in persons with and without type 2 diabetes mellitus (T2DM) in Trinidad and Tobago.

Method: A cross-sectional study was conducted that included diabetic and non-diabetic patients attending two hospitals in Trinidad. Data were collected using a 32-item questionnaire including the General Oral Health Assessment Index (GOHAI) as well as demographics, dental problems and lifestyle practices. Analysis of variance was used to examine differences in GOHAI scores. Differences were significant at p<0.05.

Results: 384 diabetic and 384 non-diabetic respondents completed the questionnaire. Of the total sample, 57.6% were female, 68.9% were aged 40 years and over, 69.6% had no more than a secondary school education, 40.8% did not consume alcohol, 81.6% did not smoke, and 70.3% did not exercise daily. More diabetics (90.9%) reported dental problems than non-diabetics (68.9%). GOHAI scores decreased with age but there was no sex difference. Among diabetic patients, GOHAI scores were highest in persons with tertiary level education and who exercised daily. They were lowest in persons who drank alcohol daily and those who smoked. Among non-diabetics, the only difference by demographics and lifestyle was that GOHAI scores were lower in persons who consumed alcohol daily. The decrease in GOHAI scores with age was also greater in diabetics than non-diabetics.

Conclusion: Diabetics had lower OHRQoL than non-diabetics, which worsened with age. This was related to demographics such as education as well as lifestyle factors such as smoking, drinking and exercise.

P13

Knowledge, Attitudes, Practices, and Beliefs of Complementary and Alternative Medicine used by Diabetic Patients and the impact of Its use on Fasting Blood Glucose, HbA1c, and Blood Lipid Profiles of Diabetics at an Outpatient Clinic in Trinidad and Tobago

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Objective: To examine the knowledge, attitudes, practices, and beliefs (KAPB) of diabetic patients utilizing Complementary and Alternative medicine (CAMs) at an outpatient clinic, and to determine any association between CAMs usage and fasting blood glucose (FBG), glycosylated hemoglobin (HbA1c), and blood lipid profile.

Methods: This cross-sectional study of adults from the Diabetic Clinic, Eric Williams Medical Sciences Complex utilised convenience sampling. An interviewer administered questionnaire was used to collect data on the KABP of CAMs. FBG, HbA1C and lipid profiles over the previous 12 months from the patients' records. The data were analysed using SPSS Version 29.

Results: Of 150 respondents, majority were females (63%), >60 years old (53%), Hindus (41.3%), diagnosed >20 years (38.3%), and used CAMs (61.2%). The most popular CAMs included caraille (31%), cinnamon (25.5%) and ginger (23.3%). Among CAMs users, 63% believed that herbal medicines aided their diabetes management, 84.4% thought that CAMs was safe to use, 59% reported no adverse effects, 38.1% used it daily, but only 20% thought it was more effective than conventional medicine. CAMs users preferred preparing their own herbal remedies (75%) and the most popular method of preparation was boiling (29%). CAMs usage was independent of age, gender, religion, and years diagnosed as a diabetic. There was no difference in FBG, HbA1c and lipid profile in CAMs users compared to non-users.

Conclusions: There was no significant reduction in FBG, HbA1c and lipid profiles in CAMs users. Further research is required to evaluate the efficacy of CAMs in diabetes management.

P14

Blood pressure control in patients after introduction of HEARTS in South Trinidad: Preliminary findings

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Objective: To assess the control of blood pressure (BP) in patients after 6 months of implementation of the HEARTS treatment algorithm.

Methods: A retrospective analysis was conducted by reviewing the medical records of patients enrolled in the HEARTS initiative at 30 health facilities in southern Trinidad. The study included 548 patients who had a baseline (before implementation of HEARTS) BP measurement and subsequent measurements 6 months after implementation.

Data were extracted on BP, HEARTS medication treatment step, Body Mass Index (BMI), age, sex, and ethnicity. Controlled hypertension was defined as SBP <140 mmHg and DBP <90 mmHg. Differences in BP control from baseline to 6-moths postimplementation were analyzed using McNemar's test.

Results: Of the 548 patients: 37% were males and 49% were East Indian. Mean age and BMI were 61.4+11.0 years and 29.8+6.5 respectively. At their 6-month visit: 48% patients were on Step 1, 25 % on Step 2, 20% on Step 3, 6% on Step 4 and 1% on Step 5 of the HEARTS treatment protocol. At baseline, 19% of patients had controlled hypertension. There were no significant differences in BP control by gender and age however there was a significant difference in BMI (p=0.004). At the 6th month visits, 26% had controlled BP. This change in BP control was significant (p=0.006).

Conclusion: Preliminary results indicated that the HEARTS treatment algorithm effectively improved BP control in hypertensive patients at health facilities. Future studies will consider patient medication adherence and physician compliance with the algorithm.

P15

Examining the relationship between Herbal Medicine use and Blood Pressure control in individuals on Antihypertensive therapy in Trinidad

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Objectives: To examine the relationship between self-medication with herbal medicine (HM), taking prescribed antihypertensive drugs and the management of hypertension.

Methods: This cross-sectional investigation included 139 hypertensive patients aged 35-64 years who attended five public health facilities in East and Central Trinidad. A questionnaire was used to determine HM use and adherence with prescribed treatment. Data on blood pressure (BP) control and prescribed medications were extracted from medical records. Chi-square tests were used to examine differences between HM users and non-users.

Results: More than half of the patients (59.7%) used HM. The most popular herb was garlic, *Allium sativum L* (57%). There were no differences between the HM users and nonusers in duration, stage of hypertension, and their prescribed therapy. For the total sample, the mean (standard deviation) duration of hypertension was 10.4 (8.9) years; 20.9%, 48.9% and 30.2% of patients had elevated BP, stage 1 and stage 2 hypertension, respectively; and 70.9% were on com-

bination therapy. Antihypertensives included calcium channel blockers (70.1%), ACE inhibitors (46.3%), and angiotensin-II receptor blockers (40.6%). Notably, fewer HM users (15.7%) had controlled BP compared with non-users (30.4%) (p=0.039). There was no difference in compliance with prescribed medication between HM users (60%) and non-users (70.4%) (p=0.219).

Conclusion: Although self-medication with herbal medication to control hypertension is growing worldwide, we found that these users in Trinidad had poorer levels of BP control than non-users. Further research is needed to understand the reasons for this, which could be related to herbdrug interaction and/or behavioural factors.

P16

Health-Related Quality of Life and Clinical Profile of End Stage Renal Disease Patients undergoing Renal Replacement Therapy (Preliminary Findings)

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Objective: To measure the health-related quality of life (HRQL) and review the clinical profile of end-stage renal disease (ESRD) patients.

Methods: Renal replacement therapy (RRT) patients were recruited at a hospital and data collected using interviewer-administered questionnaire on Kidney Disease Quality of Life-36 (KDQOL-36), EuroQol-5Dimension-5Level (ED-5D-5L), the EuroQol Visual Analogue Scale (EQ-VAS), and demographics. Clinical data including heart rate, blood pressure, creatinine, serum uric acid, potassium, phosphorus, and calcium were obtained from medical records. HRQOL data were compared with weighted averages i.e., Trinidad and Tobago population normal values. Results are presented using descriptive statistics including confidence intervals.

Results: The study comprised 89 patients aged 19 to 80 years, with 52.8% males. Their treatment modalities were haemodialysis (37.1%), peritoneal dialysis (22.5%), and renal transplant (40.4%). Hypertension (28.5%), and diabetes (11.2%) were the leading causes of ESRD. Mean scores (standard deviation) for the five KDQOL subscales were symptoms/problems of kidney disease (KD): 86.5 (14.1); effects of KD: 81.9 (21.8); burden of KD: 61.0 (31.0); physical health component: 42.0 (11.0); and mental health component: 52.5 (10.5). The mean (95% confidence interval)

was 0.85 (0.82-0.88) for ED-5D-5L index and 71.5 (68.1-75.0) for EQ-VAS. The weighted mean ED-5D-5L index was 0.94 and the weighted mean EQ-VAS was 82.8. Abnormal values for clinical variables included: blood pressure (89.9%), creatinine (73%), uric acid (39.3%), potassium (36%), phosphorus (46.1%) and calcium (42.7%).

Conclusions: Preliminary findings suggest that the HRQL of ESRD patients on RRT was below the population norm. Most had uncontrolled BP and creatinine levels.

P17

An Analytical Cross-sectional Study of Families/Caregivers of Dialysis Patients: Bio-psycho-social-economic Impact

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Objective: To examine the bio-psycho-social-economic challenges faced by primary caregivers of renal dialysis patients in Trinidad and Tobago and explore the impact of these challenges on caregivers' quality of life (QOL).

Methods: A cross-sectional study was conducted involving primary caregivers of dialysis patients treated at private and public facilities. To assess caregivers' experiences, challenges, and QOL, an online questionnaire was used to collect data on sociodemographics, World Health Organization Quality of Life Brief Version, Zarit Caregiver Burden, General Anxiety Disorder-7, Patient Health Questionnaire-9, and Financial Impact Scale. Data analyses included t-tests and chi-square tests. Differences were significant at p<0.05. Results: The study included 150 caregivers who were mainly aged 36-55 (51%), and female (60%). They comprised primarily spouses (32%) and children (57%). Caregivers reported good (35.3%) and fair (26.7%) QOL. There was no significant relationship between the type of primary caregivers and their QOL. The prevalence of depression was severe (8%), moderate (25.3%) and mild (32%). Anxiety varied by age, with younger and older caregivers having higher levels that those who were middle-aged (36-45). Spousal (19%) and child (28%) caregivers reported higher burnout rates, while paid/hired caregivers had the lowest (2%). Economic stability was more prevalent among those supporting employed patients or patients with pensions/savings as they met their financial needs.

Conclusions: Caregivers responsible for dialysis patients faced significant social, economic, and psychological challenges, including burnout. However, the majority maintained a good to fair QOL. Healthcare systems and policymakers should prioritize support to prevent future declines in caregivers' well-being.

P18

Evaluation of Client Satisfaction with the National Organ Transplant Services

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Objectives: The study aimed to evaluate the satisfaction levels of clients at the National Organ Transplant Unit (NOTU) and investigate client experiences with the process of kidney transplantation among transplant recipients, live kidney donors and clients on the waiting list.

Methods: This was a cross-sectional survey among persons who accessed the services at NOTU. Informed consent was obtained in person and participants were provided with an online link. Demographic data were collected. Satisfaction was measured with the Long-Form Patient Satisfaction Questionnaire for all participants and the Life Satisfaction Index and Satisfaction With Life Scale for live donors and recipients. Data were analyzed using SPSS Version 29.

Results: There were 50 respondents who were primarily males (52%), 40-49 years old (40%), of East Indian descent (44%), married (44%) and employed (76%). Among the respondents, 52% were transplant recipients, 10% were donors, and 38% were on the waiting list. Among both donors and recipients, 100% were satisfied with the care and support received during the process of transplantation. About 96% of recipients reported that the doctors were the most supportive, while 100% of donors reported that their family was most supportive. For respondents on the waiting list, 84.3% rated the quality of care in the pre-transplant workup as good, very good or excellent. Some participants (44%) indicated that information from NOTU would be improved by an official website.

Conclusions: Most clients were satisfied with the service received at NOTU. However, improvements were needed in online presence and social media engagement.

P19

Prevalence and Risk Factors Associated with Human Immunodeficiency Virus (HIV) and Sexually Transmitted Infection (STI)

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¹Department of Para Clinical Sciences, School of Medicine ²School of Medicine Faculty of Medical Sciences, The University of the West Indies, St. Augustine chelsea.sudan@my.uwi.edu **Objective:** To describe the prevalence and associated risk factors of Human Immunodeficiency Virus (HIV) and other Sexually Transmitted Infections (STIs) at two testing sites in Trinidad.

Methods: A cross-sectional study using a convenience sample of 250 persons, ≥ 18 years, visiting two STI testing sites was conducted. Interviewer-administered questionnaires collected data on participants' socio-demographic characteristics, STI history during the past 12 months, sexual orientation and behaviour, and substance use. Descriptive statistics, Chi-Squared/Fishers Exact test and logistic regression were conducted using SPSS.

Results: Of the 250 participants, most were under 30 years old (49%), female (53%), single (68%), Afro-Trinidadian (55%), had secondary education or below (68%), employed (55%), heterosexual (90%) and used marijuana (45%). Half (51%) used condoms sometimes and most did not use a condom during the last sexual encounter (76%). Prevalence of HIV was 2%, and the two most frequent STIs were gonorrhoea (12%) and herpes (6%). There were significant associations between HIV infection and employment status, sexual orientation, marijuana use and household income (p < 0.05 each).

Gonorrhoea was significantly associated with gender, education, age, number sexual partners and marijuana and ecstasy use (p < 0.05 each). Gonorrhoea was less likely to occur among females (OR: $0.19 \ (0.07 - 0.47)$) and in participants with vocational/higher education (OR: $0.18 \ (0.05 - 0.67)$).

Conclusions: These findings highlight the importance of targeted interventions addressing socio-demographic and behavioral factors in the prevention and control of HIV and gonorrhea, particularly focusing on high-risk groups such as males, individuals with low education, specific sexual orientations, and those under 30 years of age.

P20

Non-communicable diseases and HIV-A review of diabetes and hypertension in persons 50 years and older and living with HIV

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Objective: NCDs in Trinidad and Tobago are estimated at 14% for Diabetes, and 26% for Hypertension. This paper determined the prevalence of Diabetes and Hypertension among persons aged 50 years and over living with HIV (PLHIV).

Method: Data were extracted from electronic medical records of clients attending the Medical Research Foundation in Trinidad and Tobago. The study included all who attended at least one clinic appointment during 2023. Differ-

ences were examined for statistical significance using Chi Square tests (RStudio).

Results: Among the 2026 PLHIV who met the criteria, 57.5% were males. Also, 64% were of African origin, 8% of East Indian descent and 18% Mixed race. HIV viral suppression was 91%. Diabetes was diagnosed in 14.8% of clients and hypertension in 26.5%. East Indians had the highest prevalence of Diabetes (26.5%) compared with Africans (14.0%) and Mixed ethnicity (14.8%) (p = 0.001). Females (18.7%) had a higher prevalence of diabetes than males (11.8%) (p=0.001). Females also (33.0%) had a higher prevalence of hypertension than males (21.6%) (p<0.001) but there was no statistically significant association between ethnicity and hypertension (p=0.08).

Conclusions: The prevalence of Diabetes and Hypertension among PLHIV in the study was similar to the overall prevalence of these NCDs in Trinidad and Tobago, with a higher prevalence of both diseases in females than males. Integration of NCD services with HIV care should be urgently implemented.

P21

Awareness and Use of HIV Self-Testing Among Women in Trinidad and Tobago

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Objective: To describe the patterns of awareness and use of HIV self-testing among women.

Methods: Secondary data from the 2022 Multiple Indicator Cluster Survey were used to examine HIV self-testing knowledge and use among a sample of 5,523 women aged 15-49 years. Socio-demographic variables included Regional Health Authority (RHA) attended, area of residence, age group, marital status, education, ethnicity, and socioeconomic status or wealth quintile. The results are described using reported proportions.

Results: Overall, about two-thirds of women were tested for HIV, and only 14% tested in the last 12 months and knew the results. Knowledge of HIV self-testing kits was low with only one in four women (25.3%) reporting that they had heard of HIV self-testing kits while less than 2% reported that they had used a self-testing kit. Knowledge of HIV testing kits was highest among women residing in urban areas (27.4%), those attending the North-West RHA (32.5%); sexually active women aged 25-49 years (27.8%), women with higher education (31.3%), married/in a union (27%), and women in the fourth richest wealth quintile (27.4%).

Conclusions: The low level of knowledge and use of HIV self-testing signifies the need to expand coverage of and accessibility to this modality. It also signals the need to

increase communication and, education, especially among vulnerable populations such as women residing in rural areas, poorer women, and women with lower educational attainment. Further research should examine the correlates and identify barriers to the use of HIV self-testing kits.

P22

Self-Reported Stigma, Discrimination and Psychosocial Distress among Employed Persons Living with Human Immunodeficiency Virus at a Treatment Clinic

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Objective: To describe self-reported experiences of internalized stigma, discrimination, and psychosocial distress among employed Persons Living with Human Immunodeficiency Virus (PLHIV).

Methods: A sample of 320 clients attending the largest HIV treatment site in Trinidad and Tobago was selected via convenience sampling to participate in a survey. Data were collected using a questionnaire which was validated by the researchers and captured demography, perceptions of psychosocial distress, coping mechanisms, and stigma and discrimination in the workplace. The data were presented using descriptive statistics (i.e., frequencies).

Results: Half (53%) of the sample were male while 25% were aged 18-34 years, and 63% were 35-44 years. One-third of respondents reported that they belonged to lesbian, gay, bisexual, transgender, queer or questioning, intersex, asexual, and more (LGBTQI+) populations and the majority (60%) were employed in the private sector, informal sector, or self-employed. In terms of psychosocial distress, 46% reported they had emotional issues that disrupted their normal social activities, while one-quarter reported that they experienced thoughts of hurting themselves. Most respondents (71%) felt embarrassed or ashamed of their HIV status while about one-tenth (11%) reported they had been subjected to acts of discrimination in the workplace. The majority (95%) felt that it was important to keep their HIV status confidential.

Conclusion: The results showed high levels of internalized HIV stigma and psychosocial distress among PLHIV who are employed. There is a need to strengthen workplace policy and procedures to reduce stigma and discrimination and improve access to psychosocial support services for PLHIV. Further analysis will examine the correlates of psychosocial distress and internalized stigma among PLHIV.

P23

Implementing human papillomavirus (HPV) Vaccination Services in People Living with HIV in Trinidad and Tobago: COVID-19 Vaccination May Have Boosted HPV Vaccination

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Objective: To conduct a preliminary quality improvement evaluation of the vaccination program targeting People Living with HIV (PLWH) in Trinidad and Tobago.

Methods: The electronic medical records system from a large HIV clinic was used to abstract human papillomavirus (HPV) vaccination data among eligible persons aged 18-45 years. No personal identifiers were collected from the system to protect the privacy of individuals. Results are presented using descriptive statistics.

Results: A total of 5,615 PLWH were eligible to participate in the HPV vaccination program from October 2018 to May 2024. Among these persons, 1,157 patients (20.6%) received HPV vaccines. Of those vaccinated, 254 patients (22.0%) received 1 dose, 301 (26.0%) up to dose 2 and 602 (52.0%) up to dose 3. There was an interesting trend with the highest HPV vaccination uptake occurring during the peak years of the COVID-19 vaccination program. It was 22.4% in 2021, followed by 2022 (20.3%). The uptake of HPV vaccine in 2023 was 18.5%, while from January to May 2024 it was 10.5%. For 2018, 2019 and 2020, the uptakes were 5.3%, 12.1% and 13.7%, respectively.

Conclusion: The HPV vaccination rate for PLWH was relatively low; 1 in 5 persons were vaccinated. Our goal is to seek funding to implement and sustain clinic-based HPV-related cancer prevention by bundling services such as paptesting, prostate-specific antigen (PSA)testing and co-vaccination (e.g. Influenza) to reduce cancer-related morbidity and mortality among PLWH.

P24

Assessment of Hand Hygiene Knowledge, Attitudes, and Practices in the Post COVID-19 Pandemic Era

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Objective: To assess the Knowledge, Attitudes, and Practices (KAPs) of Hand Hygiene (HH) among medical students at the Eric Williams Medical Sciences Complex (EWMSC) compared to non-medical students at the University of the West Indies (UWI), St. Augustine Main Campus. **Methods:** A cross-sectional study was conducted from January to May 2024 using a questionnaire developed from the World Health Organization. The survey was administered in person to medical students (including those doing Dentistry) at the EWMSC and non-medical students (Years 1-3) at UWI, St. Augustine Main Campus. Data were analyzed using descriptive statistics and the Chi-Squared test, with significance set at p < 0.05 using SPSS Version 29.

Results: The majority of respondents (273 medical, 269 non-medical) were female (67.6%) and aged 21-25 years (73.5%). Knowledge: medical students were more knowledgeable about washing hands for at least 20 seconds (81.32% vs. 44.61%, p < 0.001). Attitudes: both groups supported increasing handwashing stations to improve compliance (80.22% medical, 76.58% non-medical). Practices: handwashing practices were similar, with students washing hands before and after meals, and after using the washroom (87.56% medical, 89.6% non-medical). Handwashing frequency increased post-pandemic, with most students washing their hands six times daily (53.48% medical, 59.11% non-medical).

Conclusions: While medical students exhibited a deeper knowledge of HH, both groups demonstrated positive attitudes and similar compliance with HH practices. HH improved post pandemic in the university population.

P25

Prevalence and Antimicrobial Susceptibility of Group B Streptococcus agalactiae among Pregnant women from Trinidad & Tobago: A Retrospective Study

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Objectives: To determine prevalence and antibiotic susceptibility test (AST) profiles of *Streptococcus agalactiae* isolates from pregnant women in Trinidad and Tobago.

Methods: A retrospective study was conducted among pregnant women in the North Central Regional Health Authority in Trinidad and Tobago between 2018 - 2023. Data collection was done using a predetermined questionnaire to extract information such as sociodemographic factors, type of clinical samples and AST profile from patient

records. Data analysis was carried out using SPSS v29, for descriptive data analysis. .

Results: A total of 391 positive results for Group B streptococcus (GBS) were included in this study. Streptococcus agalactiae (GBS) isolates were obtained from urine samples of pregnant females 322 (82.35%), 68 (17.39%) from vaginal swabs and 1 (0.3%) from blood. GBS were found to be most resistant to ciprofloxacin, trimethoprim, sulfamethoxazole and ampicillin 265 (67.8%), 161 (41.1%) and 93 (23.8%) respectively. The multidrug resistance profile showed that, the combination with the highest resistance was Teicoplanin, Amikacin, Telavancin (11.5%), Ampicillin, Ceftriaxone, Ciprofloxacin, Ertapenem (11%). The GBS isolates showed highest susceptibility to Ceftriaxone (62.7%), Imipenem (62.7%), Ertapenem (62.7) and Amoxicillin-clavulanic acid (55.6%). Resistance rates for both Ciprofloxacin (67.8%) and Trimethoprim- sulfamethoxazole (41.1%) were alarming while lowest rate was with Azithromycin (4.9%).

Conclusions: This study reports the *Streptococcus agalactiae* among pregnant women was highly prevalent in Trinidad and Tobago. High proportions of isolates tended to be increasingly resistant to commonly prescribed drugs.

P26

Treatment Outcome of Tuberculosis Patients in Trinidad and Tobago: A Retrospective Study

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Objective: To evaluate treatment outcome and associated risk factors among tuberculosis (TB) patients in Trinidad and Tobago.

Methods: A five-year retrospective study was conducted using data extracted from medical records of TB patients at the Caura Chest Clinic at Eric Williams Medical Sciences Complex. Cases were selected using systematic random sampling and 77 patients were chosen each year from 2018 to 2022 among those registered at the TB clinic. Data collected included demographics, HIV status, TB type, TB category, and treatment outcome. The data were analyzed using multivariate logistic regression.

Results: Among 385 study participants, 246 (63.9%), 125 (32.5%), and 14 (3.6%) were smear-positive, smear-negative, and extrapulmonary tuberculosis patients, respectively. Almost all (99.5%) were tested for HIV and the TB-HIV coinfection was 52/383 (13.6%). A total of 238 (61.8%) had successful treatment outcomes, including 140 (36.4%) with treatment completed but not reported cured and 98 (25.4%) reported cured). The overall death, default, and failure rates

were 14.0%, 22.1%, and 2.1%, respectively. There were no significant associations between sex, age, residence, type of TB, HIV status, and successful TB treatment outcome.

Conclusions: With a successful TB treatment outcome of 61.6%, it is important that measures be taken for its reinforcement to achieve the better success rate. This is critical as ineffective t reatment c an r esult i n a n increased TB

incidence and mortality as well as an increase in antibiotic

resistant strains of the Mycobacterium.

P27

Assessment of the level of awareness among family practitioners in Trinidad on the impact of climate change on mental health

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Objective: To assess family practitioners' awareness, attitudes, and experiences related to the effects o of climate change on mental health in Trinidad.

Methods: Physicians employed at Regional Health Authorities in Trinidad were recruited using email invitations. Data were collected using an online questionnaire. Data analysis generated descriptive statistics.

Results: The study included 230 healthcare practitioners comprising 51.5% females and with medical experience ranging up to 27 years. The doctors had recognized climate change's significant i mpact o n m ental health; 58.5% reported post-traumatic stress disorder, depression, and anxiety. Attitudes to the impact of climate change on mental health varied with 31.2% indifferent and 31.2% con-cerned. More than half (58.3%) viewed addressing climate-related mental health as their professional duty; 79% hadn't referred patients to psychiatrists for this reason. Over two-thirds (69.5%) agreed that climate change worsened mental health conditions; and 82.4% also saw its impact on physi-cal health. Most cited South (88.8%), Central (88.3%), East (71.1%) Trinidad as being affected by c limate disasters. Two-thirds (64.2%) disagreed that it was a health system priority while 67.2% observed no help-seeking behaviours by patients. Barriers for the latter included patient knowledge gaps (56.1%), and reluctance to seek help (62%). Many (68.3%) supported training; while 61.8% found awareness campaigns ineffective.

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Conclusion: Healthcare practitioners in Trinidad and Tobago showed mixed awareness and attitudes towards climate change's mental health impact. Many recognized

worsened conditions from climate disasters but noted barriers. Addressing these gaps is crucial for managing these challenges effectively.

P28

Nutrition, Sustainability and Climate Change in the Caribbean: engaging dietitians and nutritionists in Trinidad and Tobago in the fight against climate change

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Objectives: To engage nutrition professionals in Trinidad and Tobago on the topic of nutrition, sustainable food systems and climate change (CC).

Methods: Data were collected using seven online focus group sessions, comprising 3 to 11 participants per session. Persons were recruited via email invitation, social media advertisement and word of mouth. Each session covered 13 questions on the themes of Awareness, Level of Concern, Addressing CC and Communicating CC. Demographic data were also collected. Data were analysed from the audio recordings of the sessions using word clouds (one per question) as a visual representation of text data.

Results: A total of 36 (2 male, 34 female) nutrition professionals participated. Most were trained dietitians (89%) and were in the 20 to 39 age-group (64%). Participants thought of changing weather patterns when asked about CC; were concerned about the impact of CC on future generations; and did not have any formal training on the topic of sustainable food systems and CC. Participants also revealed concerns that CC could result in increasing levels of malnutrition and food insecurity, and reduced food safety.

Conclusions: Nutrition professionals were concerned about the nutrition-related consequences of CC, including its impact on sustainable foods systems. Their desire to be educated further on the topic revealed that they were an untapped resource in the fight against CC. Their skill and expertise must be leveraged, with the requisite training, to advance the health and nutrition of citizens of Trinidad and Tobago in the face of CC.

P29

Climate Change and its Effect on the Mental Health of Farmers in Trinidad & Tobago

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Objective: To understand the challenges farmers face due to climate change, identify potential strategies for adapting agricultural practices to mitigate these challenges, identify their mental health challenges and understand how changing climate conditions may exacerbate these issues.

Methods: The research was a qualitative intrinsic case study. Participants were identified through word of mouth and by visiting Sunday markets. Interviews were conducted via Zoom or in-person, depending on participants' availability and preferences. Nine farmers completed interviews, reaching saturation, as responses began to converge. Data were analysed using thematic analysis with an inductive approach.

Results: The participants were aged 32 to 72 years with 12 to 50 years of farming experience. They experienced a significant reduction in water supply, interspersed by flooding, resulting in reduced quality and quantity of crop yields and frequent crop loss. In response, the farmers diversified crops (more resilient varieties), adopted technologies such as irrigation systems and greenhouses, and even pursued part-time employment as a more drastic coping measure. Farmers reported experiencing stress, anxiety, depression, angry moods, disrupted sleep and irritability with family and friends. Despite these issues, they were dogged in their determination to continue farming and resolved to adapt to the new farming environment. They believed that with government's intervention and support at a personal and farming level, they would cope and overcome their present climate change challenges.

Conclusions: Policy planners at the government level should work collaboratively with the farmers in solving the weather-related problems. This would significantly increase the productivity of their farms and improve their mental health and well-being.

P30

Planetary Health Knowledge and Environmentally Sustainable Practices Among Emergency Medicine Practitioners in Trinidad and Tobago

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Objective: The medical waste generated by emergency departments is significant due to high utilization. The study was conducted to determine the knowledge and practices

of emergency medicine (EM) providers in Trinidad and Tobago on planetary health (PH) and to identify barriers to sustainability.

Methods: Convenience sampling was used to recruit EM practitioners. A questionnaire was used to assess familiarity with PH, current workplace practices and barriers to changes. Data were presented using descriptive analysis.

Results: Data were collected from 188 doctors working in five hospitals in east, north-central Trinidad and in Tobago. Of these, 54.8% reported that they were not familiar with planetary health, while 43.1% were somewhat familiar and 2.1% were very familiar with it. Most (96%) acknowledged the impact of climate on health but only 33% thought it was a priority. The majority (85%) believed sustainable consumables were important. While 73% had no training in PH, 56% were willing to participate if opportunities provided. The most implemented sustainable practice was water conservation (62.8%). Respondents also practiced using energy-efficient equipment (4 2%), wa ste reduction (42%) and recycling (42%). The primary barriers to adopting sustainable practices included inappropriate channeling of funds (76.6%), and insufficient resources within the hospital (76.6%), lack of awareness among staff (73.9%) and lack of education among staff (59.6%).

Conclusion: The findings highlighted g aps in knowledge and barriers to effective implementation of sustainable practices. The acknowledgment of the importance of PH is an opportunity to educate EM practitioners about it. Sensitization and strategies to improve practices are necessary.

P31

Knowledge, Attitudes and Practices Towards Planetary Health Among Medical Students at the University of the West Indies (UWI) St. Augustine Campus

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Objective: To determine the knowledge, attitudes and practices towards planetary health among medical students at the University of the West Indies (UWI), St. Augustine campus. **Methods:** A study sample of 279 Medical students from Years 1 – 5 participated in this study. Data were collected via an online questionnaire which allowed the assessment of the student's knowledge, attitudes and their current involvement in planetary health initiatives. Data were analyzed using ANOVA, Chi-square and Person's correlation.

Results: Most of the respondents were adolescents aged 18-23 (70.3%), females (69.52%) and of East Indians origin (44.24%). The year 2 class had the highest participation (28.62%). There was an overall satisfactory level of knowledge regarding Planetary Health (84.01%), the high-

est exhibited by Year 1 students and least by Year 4 students. Most respondents (58.74%) expressed an overall poor attitude towards Planetary Health. There was an association between attitudes and year group with Year 5 and Year 1 students reporting better attitudes (p=.025). Attitudes and Knowledge regarding Planetary health were found to be weakly correlated (r=.221, p <0.001). The average practice score was relatively high (60.59%) with significant variations across different year groups (p=0.001). Year 5 possessed the highest practice score.

Conclusion: Most students had a satisfactory level of knowledge but a negative attitude towards planetary health, indicating their attitudes were not well aligned with knowledge level. Most students did not participate in Planetary Health practices and were unaware of planetary health initiatives offered by UWI.

P32

Exploring Occupational Stress Among Full-Time Police Officers: A Phenomenological Study

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Objective: This study aimed to understand police officers' experiences of occupational stress including coping, and the solution-based mechanisms they employ.

Methods: An interpretive phenomenological approach was utilized in which ten (10) police officers who had experienced occupational stress were purposively recruited from the Scarborough Police Station, Tobago Police Division. Individual qualitative interviews were conducted, and data were analysed using interpretive phenomenological analysis. The analysis was facilitated by the use of NVivo 14 software.

Results: The following four themes were derived: challenges on the job, mixed feelings towards work, engaging in self-care routines, and meeting officers halfway. Participants acknowledged that limited manpower, vehicular transportation, ineffective office equipment and materials, long work hours, staff absenteeism, uneven distribution of workload, unrealistic expectations from supervisors, lack of knowledge, and feeling burnt out and hungry were all contributors to experiencing occupational stress. Some participants felt disappointed by these challenges and lacked motivation to work, whereas a few officers were unhinged by the challenges they encountered. The study also unveiled their ability to manage stress while working within an underresourced environment by engaging in outdoor and indoor recreational, and spiritual activities and having the support of their seniors.

Conclusions: Police officers require adequate resources, better working hours, training, and improved management,

to reduce their perceived stress and improve their mental health and well-being. Case study research on strategies to improve the mental health of police officers and ultimately their performance are recommended.

P33

Exploring Immigration Policies and Crime in Trinidad and Tobago: An Analysis of the Venezuelan Registration **Policy**

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Objectives: The Venezuelan Registration Policy was implemented mid-2019 to improve social conditions of these migrants in Trinidad and Tobago. The present study examined crimes committed by Venezuelan migrants before and after its introduction.

Methods: A desk review was conducted, and data collected from the International Organization for Migration's Displacement Tracking Matrix (DTM), Trinidad and Tobago Police Service's crime statistics. Incidents of serious crime and social conditions were examined for the period 2017 to 2022.

Results: There were 315 reports of serious crime by Venezuelan migrants during the study period. These were mainly for firearm offences (61.9%) and narcotics (17.7%). Most of the offenders were male (83.4%) and aged 20-34 years (62.9%). Incidents of serious crime fluctuated over the six years with a peak in 2018 i.e., the year before the policy. There was an increase in 2020 compared with 2019, but the number dropped in 2021 and 2022 to levels below 2018 and 2019.

Year	2017	2018	2019	2020	2021	2022
No. of Serious Crimes	11	82	58	67	46	48

Reports also indicated better social conditions after the policy- fewer migrants working in formal sector were underpaid i.e., earned less than minimum wage in 2022 (12%) compared with 2019 (25%). Also, access to healthcare increased from 48% in 2019 to 70% in 2022.

Conclusions: Improved social conditions with the implementation of 2019 Registration Policy might have resulted in less serious crime but there is a need to examine the crime data for a longer period as well as take other factors into consideration.

P35

A Post-Covid Cross-Sectional Study of Health Care Professional Burnout and Coping Strategies in North Central and Eastern Regional Health Authorities

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Objective: To investigate the prevalence of burnout among primary care nurses and physicians within the North Central Regional Health Authority (NCRHA) and the Eastern Regional Health Authority (ERHA) and explore risk-factor associations that may contribute to burnout and the coping strategies used.

Method: A cross-sectional study covered health centers in the NCRHA and ERHA. Primary care physicians and nurses participated via convenience sampling, completing self- administered questionnaires measuring burnout levels and coping strategies. SPSS analysis included descriptive statistics and chi-square tests to explore these factors among healthcare providers.

Results: Participants included a diverse demographic: predominantly female (62.5%), aged between 30-49 years (53.2%), of Indo-Trinidadian descent (50%). Among respondents, 65.6% were nursing staff while 34.4% were physicians A significant proportion reported experiencing burnout (81.3%); however, they did not meet the criteria for burnout based on the Spanish Burnout Inventory (SBI). Instead, respondents expressed a strong interest in increased pay and improved working conditions. The most frequently reported workplace challenges included physical/verbal abuse from patients (80.2%), excessive working hours (76.0%), and lack of support (60.4%). COVID-19 significantly impacted burnout levels, with increased working hours and mental exhaustion being key factors.

Significant associations with burnout included age (p<.001), hours worked per week (p<.05), years since qualification (p<.01), weekend work (p<.05), and hours of relaxation (p<.001).

Conclusion: There were high levels of reported burnout among primary care nurses and physicians in Trinidad, not meeting formal criteria. Challenges include abuse, long hours, lack of support, and pay dissatisfaction. COVID-19 exacerbated work-load. Interventions should target conditions and support systems.

P36

An Investigation of the Impact of the La Soufriere Eruption on the Lives of Vincentians

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Objective: To explore the lived experiences of residents of Saint Vincent and the Grenadines as a result of the eruption of the La Soufrière volcano.

Methods: An interpretive phenomenological approach was employed to capture residents' lived experiences from the country's red, orange, and green zones. A total of 17 in-person focus group discussions were conducted, each consisting of six to eight participants who were purposively selected. Data were analyzed using thematic analysis facilitated by NVivo software.

Results: The key themes derived from the analysis included coping strategies during and after evacuation, motivations for returning to their communities despite ongoing risks, concerns over food insecurity, and the psychosocial and physical deficiencies of shelter services. Participants also emphasized the emotional toll of the disaster and feelings of unpreparedness and difficulty in managing challenges of such magnitude.

Conclusions: Participants' fears, emotions, and struggles underscored the urgent need for collaborative efforts to develop comprehensive disaster management strategies. These strategies should prioritize psychological well-being, food security, and the provision of adequate shelter services. The findings provided critical insights for future decision-making and policy development to enhance disaster preparedness and response.

P37

Mental Health Effects of the COVID-19 Pandemic on Emergency Nurses and Doctors During and After the Pandemic

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Objective: To compare how the COVID-19 pandemic affected the mental health of Emergency Department (ED) nurses and doctors at the South-West Regional Health Authority, during and after the COVID-19 pandemic.

Methods: A cross-sectional study of 185 ED nurses and doctors was conducted. Data were collected using a modified version of the COVID-19 Pandemic Questionnaire (QoPaQ) and distributed online. Descriptive analysis was conducted.

Results: Responses were obtained from 176 participants (95.1%), of whom 144 met the inclusion criteria (81.8%).

The pandemic negatively impacted the mental health of 56.9% of participants. Most participants were fearful of contracting COVID-19 (76.4%), and approximately 79.9% were concerned about potentially spreading the infection to others. During the pandemic, participants experienced nightmares (18.8%), had difficulty falling asleep (32.6%), and consumed more alcohol (13.2%) and cigarettes (4.9%). After the pandemic, participants were still worried about contracting COVID-19 (28.5%) but were able to maintain their regular daily routine (60.4%). Interest was expressed in attending seminars or meetings to aid in improving their mental health (56.6%).

Conclusions: COVID-19 negatively affected the mental health of most healthcare workers (nurses and doctors), with the most impact being felt during the pandemic. Improvements to their mental health could likely be improved through the implementation of targeted mental health seminars.

P38

An exploration of how flooding impacts the psychosocial well-being of residents living in flood-prone communities

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Objective: To determine the psycho-social effects of flooding in individuals living in flood-prone areas in Trinidad.

Methods: Using convenience sampling, persons over the age of 18 years and living in Trinidad were invited to participate in the study using social media. Data were collected using an online 36-item questionnaire that measured sociodemographics, flooding history, depression (Patient Health Questionnaire-2), anxiety (Generalized Anxiety Disorder 2), stress (Perceived Stress Scale 4) and post-traumatic stress disorder (PTSD Checklist – Civilian Version). For data analysis, participants were grouped using their flooding experience where they lived using the Queensland classification into no, mild, moderate and severe flooding. Descriptive statistics were used to present the findings.

Results: The study comprised 215 participants (response rate 95.6%) with a mean age of 31 years and who were primarily females (75.3%), Indo-Trinbagonians (63.3%), and with tertiary level education (60%). As can be seen in the table, persons who experienced severe flooding had greater levels of anxiety, depression and PTSD compared with the others. All groups experienced high levels of stress.

	No flooding (n=61)	Mild flooding (n=56)	Moderate flooding (n=66)	Severe flooding (n=32)
Probable anxiety	8.2%	3.6%	15.2%	34.4%
Probable depression	9.8%	3.6%	15.2%	40.6%
Probable PTSD	8.2%	8.9%	13.6%	50%
High levels of stress	86.9%	75%	87.9%	84.4%

Conclusions: The higher incidence of negative psychosocial outcomes among persons who experienced severe flooding, highlights the significant toll such disasters can have on the mental health of victims. Additional research is needed in light of limitations such as sampling and reliance on self-reports.

P40

Attention Deficit Hyperactivity Disorder and Associated Factors Among Medical Students: A Cross-sectional Study

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Objective: To determine the prevalence of Attention Deficit Hyperactivity Disorder (ADHD) and related factors among medical students at the Faculty of Medical Sciences, St. Augustine Campus.

Methods: A convenience sample of 231 medical students were surveyed online between February and June 2024. The Adult ADHD Self-Report Scale, Pittsburgh Sleep Quality Index, Generalized Anxiety Disorder-7, and Patient Health Questionnaire-9 were used to measure ADHD, sleep quality, anxiety, and depression, respectively. Students' attention spans and influencing lifestyle factors were also assessed. Inferential statistics were conducted using SPSS Version 25.0.

Results: Of 231 responses, the mean age was 22.6 years, with 72% female. The prevalence of ADHD was 45%, independent of age (*P*=0.148) and gender (*P*=0.788). The year of study was significantly associated with ADHD, highest in year 3 students (67.3%) and lowest in year 1 (36%). Poor sleep, anxiety, and depression were prevalent at 82.3%, 65.4%, and 73.2%, respectively, all positively associated with ADHD (P<0.001). Tiredness, academic load, sleep, interest in the subject, and time of day were the top five (5) factors affecting attention span. Those with ADHD were more likely to exercise, spend time on social media, drink caffeinated beverages, skip breakfast, and consume more fluids compared to those without ADHD (P<0.05 for all).

Conclusions: The high prevalence of ADHD and mental comorbidities among medical students necessitates further studies and urgent interventions for this at-risk group.

P42 Older Adults' Perceptions of the Ageing Experience in Trinidad and Tobago: A Mixed-Methods Study

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Objective: To understand the perceptions of the ageing experience in Trinidad and Tobago among older adults, aged 60-85; and to measure their self-perceptions of ageing. Methods: A concurrent mixed-methods approach employing the use of focus groups and surveys was conducted. There were 38 participants engaged in six (6) focus group interviews about their physical, mental & social health, and ageing experiences who were recruited primarily through volunteer and snowball sampling. Survey participants completed the Brief Ageing Perspectives Questionnaire (B-APQ) and 394 were recruited via convenience sampling. The interview data were analyzed thematically using MAXQDA software and the survey data were analyzed using SPSS. Z-tests, analysis of variance (ANOVA), Kendall's Tau, chi-square analysis, and multivariable ordinal logistic regression were performed. Data integration occurred during analysis of the results.

Results: The following themes were derived from the focus group discussion: ageism and disrespect, undesirable cultural norms, and fear of crime. Most themes reflected positive perceptions, including a positive outlook on ageing, satisfaction with available local resources, and the role of spirituality/religion in coping with the challenges associated with ageing. Negative experiences were mainly focused on the health system and financial challenges and were experienced by males and females. Results showed that self-reported perception of health status was the only predictor of perception of ageing and most participants considered their self-reported health to be 'Good-Very Good". Additionally, the odds of good perception of ageing increased with increasing self-reported health status.

Conclusion: There is a need for multilevel and multisector efforts to reduce ageism, redefine the perspective of ageing and promote positive beliefs, practices, and policies related to ageing and older adults.

P43

Using self-reported health to track changes in population health and health inequality for Trinidad and Tobago over a 10-year period

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Objectives: Population norms studies for health outcomes instruments provide baseline values against which patient and demographic groups can be compared. They also capture information about population health and health inequality which can be used to track changes over time. The aim of this study was to compare the 2022/23 Trinidad and Tobago (TT) population norms for the EuroQol EQ-5D-5L instrument with those from 2012.

Methods: Demographic and EQ-5D-5L data were obtained from TT citizens over the period July 2022-May 2023. EQ-5D-5L measures were calculated for age-sex groups and stratifiers including education, income, ethnicity, employment status etc. The Kakwani index and ordered logit models were used to investigate health-inequality. Regression models were developed to examine associations between demographics and EQ-5D-5L measures. All results were compared with those from the 2012 study.

Results: Data were obtained from a representative sample of 2,989 respondents. The mean EQ-5D-5L index value was 0.921 (vs 0.950 in 2012), mean EQ VAS (Visual Analogue Scale) score was 79.6 (vs 83.6) and the ceiling was 31.5%. The dimensions with the highest rates of reported problems were pain/discomfort (43%) and anxiety/depression (39%). The Kakwani index was 0.113 (vs 0.103) for EQ VAS and 0.058 for EQ-5D-5L index values with sex accounting for the largest relative contribution. There were changes in the pattern of odds ratios for higher levels of problems on the dimensions associated with demographic variables.

Conclusion: Over the period 2012 to 2022/23, health inequality increased. Changes were observed in the EQ-5D-5L measures and the patterns among the dimensions.

P44

An Investigation of the Venous Thromboembolism Prophylaxis Used by Accident and Emergency and Orthopaedic Physicians in Patients with Acute Trauma and Fractures/Immobilisation of the Lower Limb in Trinidad

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Objective: To assess current Venous Thromboembolism (VTE) prophylaxis methods employed by Accident and Emergency (A&E) and Orthopaedic physicians in patients

with acute trauma and fractures/immobilisation of the lower limb in three major hospitals in Trinidad.

Methods: This cross-sectional study utilized convenience sampling amongst physicians at Eric Williams Medical Sciences Complex, San Fernando and Sangre Grande General hospitals in June 2024. The physicians' staff lists were obtained and used to recruit participants. After informed consent, participants self-administered a structured 29-item questionnaire with five sections (Demographics, Perception, Awareness/Practices, Possible Barriers and Effectiveness of Potential Strategies to Assist in VTE Prophylaxis Outcome). The data were analysed using descriptive statistics, including cross-tabulations and frequency tables, in IBM-SPSS Version 29.

Results: The majority of the participants (61%) preferred both pharmacological and mechanical methods and 45% were familiar with the Wells' assessment tool. Enoxaparin was the preferred pharmacological intervention (85.7%); however, graduated compression (39.8%) and Thrombo-Embolus Deterrent (TED) anti-embolism stockings (61.2%) were the mechanical preferences. Lack of clear protocol/guidelines for VTE assessment and prophylaxis (94.9%) was stated to be the main barrier while a standardized VTE checklist (96.9%) was the most effective strategy selected to assist in VTE prophylaxis.

Conclusions: Despite the preference for a combined treatment approach and knowledge of the Wells' assessment tool, perceived barriers and suggested strategies demand the need for the development of national guidelines/protocols for VTE prophylaxis in Trinidad.

P45

Time and motion study of the length of stay of Psychiatric patients in the San Fernando General Hospital Emergency Department

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Objective: To determine the length of stay (LOS) of psychiatric patients in the San Fernando General Hospital Emergency Department (SFGH ED) during the period June 2023 to December 2023.

Methods: A time and motion study was conducted at the SFGH ED during the period of June 2023 to December 2023 measuring the length of time from triage to psychiatric ward admission. It included all adults 18 years and over, new and readmitted patients, persons who identified them-

selves patients of psychiatric/ mental health clinics, and persons on psychiatric medication.

Results: The sample size was 417 admitted psychiatric patients. The mean time to be seen in triage was 1 hour, 57 minutes (range: <1 minute to 16 hours, 14 minutes). The mean time to be seen by psychiatric doctors was 2 hours, 45 minutes (range: <1 minute to 23 hours, 58 minutes). The mean time from triage to admission on psychiatric ward was 7 hours, 13 minutes (range: 1 hour, 29 minutes to 22 hours, 50 minutes).

Conclusion: As this is the first study of its kind at the SFGH ED further studies are required to determine the reasons for delays. This study demonstrated the need for ED transfer and protocols to exist with respect to making a more efficient transfer from ED to the psychiatric ward.

P46

Experiences of Maternity Care: The Perspectives of Healthcare Professionals, Policymakers and Clients on a Caribbean Island

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Objective: To conduct a formative assessment of respectful maternity care (RMC) in the public and private sectors in Trinidad and Tobago from the perspectives of healthcare professionals, policymakers, and clients.

Methods: A case study design was used. Participants were purposively selected from public and private sector institutions and included pregnant women, spouses, healthcare providers, administrators, and policymakers. Key informant interviews (37) with women (11), healthcare providers (9), administrators (8), and policymakers (9), and six focus group discussions with women (3) and partners (3) were conducted using semi-structured interviews. The informant interview and focus group data were analysed using thematic analysis, at which point integration of the data sets occurred.

Results: Two themes emerged, RMC and mistreatment. Four sub-themes of RMC included open and honest communication with health workers, non-judgmental/non-discriminatory care, decision-making autonomy, and partner involvement. Three sub-themes of mistreatment included non-verbal and inconsistent communication, judgmental or discriminatory care, and limited privacy and confidentiality. Some of the key findings included, men wanted greater involvement in the maternity experience with their spouses. Healthcare professionals, while cognizant of the right to choose among clients, were often conflicted in cases where

their personal choices were not consistent with best practices

Conclusions: Healthcare professionals, women, and their partners shared an understanding of RMC and mistreatment which were rooted in their expectations and experiences. This has implications for the reorientation of maternity services that are needs-oriented. The findings can be used as a framework for developing family-centered recommendations to enhance maternity services in the public and private sectors.

P47

A Qualitative Study Exploring Patient Perceptions of Patient-Centered Care in Trinidad and Tobago

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Objective: To explore the perception of patient-centered care (PCC) among patients with non-communicable diseases in Trinidad and Tobago.

Methods: A convenience sample of 15 adult patients with non-communicable diseases, attending outpatient clinics in Trinidad were recruited. Data collection involved face-to-face, semi-structured interviews that explored perceptions of PCC, factors affecting PCC experiences, and strategies for improving PCC. Data were analyzed utilizing a thematic approach. Initial coding identified keywords and phrases. Coding refinement produced themes and subthemes surrounding patient-centeredness and improvements in the context of Trinidad and Tobago creating a coherent narrative. QDA Miner software was employed in the analysis.

Results: The overarching theme, Patient Perception of PCC, was divided into the following sub-themes: Responsibility of Health Professionals, Patient-Doctor Relationships, Barriers to Effective Care, Patient Interaction and Involvement in Care, and Quality of Care and Support. Overall, the patients held positive and negative perceptions of PCC. Another major theme was factors affecting PCC. These factors were subdivided into Problems Receiving Care, which were namely wait times and communication issues, quality of doctor-patient relationship, management issues, and patient demographics. Another overarching theme was improving PCC. Patients suggested utilizing less medical jargon, efficient and organized care (i.e., increased education and clinic hours), and supportive community involvement (home visits) as improvement strategies.

Conclusions: Patient perceptions of PCC were positive and negative, largely affected by the quality of the doctorpatient relationship. There are barriers to care which may be overcome by prioritizing PCC, improving management practices and community involvement.

P48

Access to Healthcare in Adults with Intellectual and Developmental Disabilities in Trinidad: A Qualitative Study

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Objective: To explore the barriers to access to healthcare in adults with intellectual and developmental disabilities in Trinidad primarily from the perspectives of their caregivers. Methods: This study used a qualitative design, and data were collected via 11 semi-structured online interviews. Participants were recruited via snowballing sampling and the sample size was determined by data saturation. The participants comprised ten caregivers of adults with intellectual and developmental disabilities and one adult with a developmental disability. Interviews were audio recorded, transcribed verbatim, and analysed using thematic analysis to capture participant perspectives as described by Levesque's conceptual framework of access to healthcare.

Results: The themes emerging from the data included using public versus private healthcare facilities, medical professionals' understanding of intellectual and developmental disabilities, and the cost of services. Most caregivers used private sector services due to negative experiences in the public sector. Often, doctors did not understand intellectual or developmental disabilities leading to inappropriate recommendations. Healthcare was believed to be too expensive, and the majority of patients were not insured. Limited communication skills of the intellectually and developmentally disabled were identified as a barrier to accessing some healthcare services such as eye tests. Fear of medical care was another barrier that led to fewer preventative screenings and avoidance of healthcare services.

Conclusions: Healthcare professionals should undergo training in intellectual and developmental disabilities to improve their understanding of these conditions and ultimately the quality of care they provide.

P49

Utilisation of Contact Lens in Trinidad and Tobago

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Objective: To determine the awareness and utilization of contact lens among adults residing in Trinidad and Tobago. **Method:** A cross-sectional study was conducted in which systematic random sampling (every third person) was used to select persons aged 18 years and over from shopping malls. A questionnaire was used to assess awareness and level of contact lens use as well as perception of barriers to contact lens wear. Descriptive statistics were used to summarize the data and Chi square tests to examine demographic differences in contact lens use for statistical significance (p<0.05).

Results: Of the 234 persons enumerated, 218 (93.2%) responded. Their mean age was 30.3 years (Standard Deviation=12.7). Most were females (63.9%), East Indians (49.1%) and had tertiary education (65.7%). Most (85.7%) were aware of contact lens and 32% used them. The main reasons for contact lens use were refractive error correction (53.6%) and cosmetic purposes (24.6%). Most respondents (79.9%) perceived contact lens as a cause of dryness and discomfort of the eye. Lack of information (35.6%) and cost (26.9%,) were the major barriers to contact lens wear. More East Indians (44.9%) wore contact lens than Africans (26.1%) and persons of Mixed ethnicity (27.5%) (p=0.003). Gender, education and family income were not significantly associated with wearing contact lenses.

Conclusion: Respondents demonstrated good awareness about contact lenses, but this did not necessarily lead to high utilization or positive perceptions. Public education concerning contact lenses, via eye care professional engagement, is recommended to increase utilization and shift perceptions.

P50

Non-Nationals' Barriers to Health Care in Trinidad and Tobago 2023-2024: a Mixed Method Study

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Objective: To determine non-nationals' barriers to healthcare in Trinidad and Tobago as perceived by non-nationals and physicians.

Methods: A mixed methods study was conducted comprising a survey and in-depth interviews. A cross-sectional

survey was conducted on conveniently sampled physicians working in public primary and tertiary care units in Northwest, East and South Trinidad. A 25-item questionnaire was utilised to assess their knowledge, attitudes and practice of the provision of health care to Venezuelan non-nationals. Using grounded theory, Venezuelan immigrants in Trinidad were purposively sampled from public non-health care settings. A trained translator conducted interviews to explore their experiences in Trinidad's healthcare. Descriptive analyses were conducted using SPSS and thematic analysis using Qualitative Data Analysis (QDA) Miner.

Results: Of the 309 physicians, 59% were knowledgeable of the Non-National Health Policy (59%). Physicians believed that Immigrants should have access to: emergency medical services (96.4%), primary care service for maternal and child health (92.9%, immunisation and communicable disease (89.9%) and access to all healthcare services (60.7%). One third of the physicians reported that discourteous behaviour towards non-nationals was observed daily (33.1%). The Venezuelans interviewed reportedly experienced long wait times, feelings of neglect and abandonment, discrimination due to racial differences/xenophobia and poor communication due to a language barrier.

Conclusions: Non-nationals' reported language barriers leading to ineffective communication and poor attitudes of staff causing infringement of the charter of patients' rights. Focused efforts on education, policy clarity, and anti-discrimination measures are crucial to improving healthcare delivery for immigrant populations in Trinidad and Tobago.

P51

Barrier Score Index: A Key Indicator of Healthcare Access and Equity in a Resource-Limited Country

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Objective: To identify barriers experienced by health seekers, focusing on affordability, access and equity.

Methods: A convenient sample of persons seeking medical assistance was chosen at eight pharmacies in Trinidad. Participants were invited to complete a pilot-tested questionnaire, which measured demographics, use of health services (including barriers), and financial/ social consequences of not using public healthcare (PHC). The following indices were used: Utility index = proportion of PHC users; Affordability index = proportion who said they could afford and only used private care (afforders); Non-Affordability index= proportion of people who cannot afford but only used private healthcare (non-afforders); barrier score was the number of barriers reported (maximum=39). Data were analysed using descriptive statistics.

Results: There were 264 participants (response rate: 69.3%), with a mean age of 41.8 ± 15.6 years; 37.9% were male. Among the 264 health seekers, there was a utility index of 0.28, affordability index was 0.34 and non-affordability index was 0.38. Non-PHC users experienced 1 to 34 barriers (mean= 14.8 ± 7.8) highlighting access problems. Some of the more common barriers being delayed services/investigations (82.3%), perceived poor quality of services (73.5%), and mismanagement of patients (69.5%). 'Non-afforder' non-PHC users experienced greater inequity due to more severe challenges: treatment-related (37.6%), financial/social (46.2%), and disease-related (26.4%), compared to the 'afforder' non-PHC users, who reported 19.8%, 29.6%, and 14.4% for these challenges, respectively.

Conclusion: The high proportion of non-PHC users who experienced barriers and other challenges suggested compromise in healthcare access and equity.

P52

Litigation: An underutilised quality feedback indicator. A review of court cases in a small resource limited high income country.

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Objective: Litigation cases provide important feedback on medical errors, outcomes and expected standards of care. This study examined judgements from cases in Trinidad and Tobago, describing case characteristics, error types and expected standards of care.

Methods: Judgements from law cases involving individuals' health from 1990 to 2023 were identified from the Court Library Services, Judiciary of Trinidad and Tobago using search words: 'medical negligence', 'health and medical negligence' and 'health and negligence'. Incomplete/ ambiguous reports, staff matters, and cases involving motions "to strike out evidence" were excluded. Data on patient demographics, case characteristics, outcomes and court recommendations were collected using an 18-item pilot tested questionnaire. The results are presented using descriptive statistics.

Results: Out of 793 cases identified, 52 cases met the selection criteria. Litigations mainly involved the public sector (61.5%) with the majority of claimants being patients (61.5%) and the defendants healthcare institutions. Most cases resulted from delayed diagnosis/inadequate treatment (44.2%), followed by misdiagnosis (17.3%) and medication errors (13.5%). The main lawsuit outcome was that of medical negligence (51.9%). Of these, the highest conviction rate (33.3%) was in obstetrics speciality. The defendant in cases

with convicted outcome was most commonly the healthcare institution (51.9%) followed by the medical doctor (37%). Detailed standards of care were provided most commonly for inappropriate drug dosage and usage (18.5%).

Conclusion: Litigation analysis revealed gaps in healthcare that resulted in medical negligence, and details of expected standards of care. Both expert witnesses and in depth evaluation makes litigation analysis enormously useful as a quality improvement tool.

P53

A comparison of Knowledge, Attitudes and Practices of Hand Hygiene among In-service Healthcare workers at the Eastern Regional Health Authority

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Objective: To investigate the Knowledge, Attitudes and Practices (KAPs) of Hand Hygiene (HH) amongst in-service Healthcare workers (HCWs) at the Eastern Regional Health Authority (ERHA).

Method: A cross-sectional study of in-service HCWs employed at the ERHA was conducted using convenience sampling. Data were collected using a 28-item questionnaire and a novel HH monitoring device. The questionnaire was structured to measure KAPs. Data analysis included descriptive and inferential statistics.

Results: The study comprised 317 HCWs (98.4% response rate) comprising primarily nursing staff (35.6%0 and doctors (21.1%). Half of respondents (49.8%) thought that the most common way for potentially dangerous bacteria to spread among HCWs is through unclean hands. There was a significant association between type of staff and knowledge of the primary pathogen cross- transmission channel (p=0.006). Medical staff demonstrated higher levels of knowledge, more positive attitudes and adequate practices of HH compared to non-medical staff. Females and medical professions displayed a significant relationship to HH Knowledge (p=0.002 and p=0.031 respectively). Females showed more positive attitudes to HH as a means of reducing healthcare associated infections (p=0.033) and good practices of HH based on the World Health Organization's 5 moments (p<0.001). Medical staff agreed that they performed HH even if they did not directly interact with patients compared to non-medical staff (p<0.001).

Conclusion: Disparities were noted with females exhibiting more positive attitudes and better practices towards HH compared to males. Profession played a role with medical staff demonstrating higher adherence to HH than non-medical staff. Targeted intervention is recommended for male non-medical staff.

P54

Perceived Effectiveness of Antipruritic Agents Used by Veterinarians and Dog Owners in Trinidad and Tobago

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Objective: This study examined the perceived effectiveness of antipruritic agents used by veterinarians and dog owners in Trinidad and Tobago, aiming to understand the common treatment methods and their effectiveness in managing pruritus in dogs.

Methods: A cross-sectional survey using questionnaires was distributed both online and in-person to small animal veterinarians and dog owners. Convenience sampling targeted 171 respondents (106 veterinarians, 65 dog owners). Data were analysed with descriptive statistics.

Results: Of the targeted sample, there were 145 respondents giving an overall response rate of 85%. Of these, 60% were dog owners and 40% veterinarians. Among dog owners, 35% used home remedies first, and 29% sought veterinary care. Topical treatments, especially shampoos with anti-inflammatory agents, led to full recovery in 66% of dogs. Veterinarians (80%) used combination therapy addressing causative agents and topical treatments, and all (100%) saw positive results using systemic treatments like Fluralaner and Ivermectin for ectoparasitic pruritus.

Conclusions: Dog owners commonly use topical treatments, while veterinarians prefer combination therapy and systemic treatments for severe cases. The study emphasizes the need for better awareness among dog owners about consulting veterinarians and using combination therapies. Future research should investigate controlled treatments and natural antipruritic agents with low toxicity.

P55

Swimbladder disease in Oranda Goldfish (*Carassius auratus auratus*): Knowledge and Practices of Fish Hobbyist/Owners.

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Objective: Swimbladder disease is a multi-factorial disease affecting the buoyancy of fish and can have an underlying genetic cause in Oranda goldfish. This study seeks to evaluate the knowledge and treatment practices of hobbyists/owners.

Methods: A questionnaire was formulated to determine the knowledge and practices of fish hobbyists. After initial testing, the survey was edited, and 15 fish fanciers were contacted via telephone and surveyed. The data were tabulated using MS Excel and subsequently analysed using SPSS Statistics (V24).

Results: About 73% of respondents indicated they had previously heard of swimbladder disease and 66% of owners reported the primary sign observed was abnormal floating. The primary methods for assessing water quality were testing the water pH and ammonia levels. Most fish affected were between 1-5 years and 67% of owners had multiple fish in the aquarium. Prior to contacting a veterinarian, most owners checked the internet (61%) for treatment options, with green peas being the most common treatment method (73%). Most owners contacted a veterinarian within one week of the onset of clinical signs. About 87% of owners were willing to carry their fish to the veterinarian, however primary constraints were time and transportation. Only 13% of the owners indicated that the animals fully recovered from the disease.

Conclusion: While most fish hobbyists were aware of swimbladder disease, most were only aware of the genetic component of the disease after they had consulted a veterinarian. There is a need to increase awareness of this condition and treatment/prevention options.

P56

Prevalence and Risk Factors Associated with Parasitic Fauna in Horses in Trinidad

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Objectives: To determine the prevalence of ectoparasites and endoparasites of horses in Trinidad and if there is any association between host factors (e.g. sex, age, physiologi-

cal status) and external factors (e.g. deworming schedule and tick control) with the prevalence of these parasites.

Methods: Convenient sampling of 144 horses was used to collect faecal samples and ectoparasites in this study. Data on demographics and farm management practices were also collected using questionnaires. Freshly voided faecal samples were collected in individually labelled faecal cups and ectoparasites were placed in vials containing 70% alcohol until further processing. Qualitative and quantitative faecal flotation techniques w ere e mployed t o d etect endoparasites while ectoparasites were identified under a dissection microscope using published morphological keys. The data were analysed using the Chi-square test (SPSS Version 24). Results: Endoparasites were detected in the faeces of 71 (49.3%) horses including strongyles (n=70; 48.6%), Parascaris equorum (n=5; 3.5%) and Dictyocaulus spp. (n=5; 3.5%). Egg counts ranged from zero to 13,800 eggs per gram. The only ectoparasites detected were ticks, *Dermacentor nitens* (n=263) from 28 horses (19.4%). Age (p=.01) and sex (p=.02) were significant host risk factors for the presence of endoparasites only.

Conclusions: This research highlights that parasitism is a problem of horses in Trinidad which can negatively impact their health status. Although foals and mares are affected significantly m ore t han a dults a nd s tallions respectively, with endoparasites, there is the need for proper stable hygiene, routine environmental and on-animal tick control and a regular deworming programme.

P57

A Histopathological Survey of Endoparasites in the Gastrointestinal and Respiratory Tracts of wild caught Opossums (*Didelphis marsupialis*) in Trinidad

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Objective: The black-eared opossum (*Didelphis marsupia-lis*) is an American marsupial native to the island of Trinidad. They are regularly hunted on the island despite the paucity of information about parasites in this species. This study is part of a broader research project investigating diseases in various neo-tropical animals in Trinidad and aims to detect and identify gastrointestinal and respiratory parasites found in opossums caught on the island.

Methods: Seventy-one wild opossums were caught between 2014 and 2020. Tissue samples (lungs, stomach, small and large intestines) and gastrointestinal contents were collected for histopathological and parasitological analysis respectively. Data were analyzed using descriptive statistics.

Results: Parasitological evidence of gastrointestinal infection was observed in 57 (80.3%) cases. Eighteen of those

cases (31.6%) were supported by histopathology. However, six cases had histopathologic evidence of gastrointestinal parasitism without parasitological support. Three nematodes were found in the stomach (4.2%), nine parasites (including coccidian) in the small intestine (12.7%), and 15 nematodes in the large intestine (21.1%). The nematodes *Turgida turgida* and *Cruzia tentaculata* were amongst those identified. An acanthocephalan (*Oligacanthorhynchus* spp) was identified in the small intestine. In the respiratory tract, four (5.6%) lungworms were observed, three of them nematodes, and one trematode. Three opossums had evidence of respiratory and gastrointestinal parasitic co-infections.

Conclusion: To the best of our knowledge, this is the first histopathological report of gastrointestinal and respiratory parasites detected in opossums in Trinidad. The parasites found have been identified in the same or similar species of opossums in other regions of the Americas, and none are considered zoonotic.

P58

Frequency of Gastrointestinal Parasites in Water Buffaloes (Bubalus bubalis) in Trinidad

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Objective: The water buffalo is ideally suited for tropical climates due to their ability to thrive on poor quality forages and tolerance to tickborne diseases, but there is little data on their endoparasitic burden, which can negatively affect growth, health and performance. This study sought to inves-tigate the prevalence of endoparasitism in water buffalo in Trinidad.

Methodology: Faecal samples were collected from 200 buffaloes housed on 17 farms. Epidemiological data were also collected to identify potential risk factors associated with endoparasitism. Samples were assessed using quantitative and qualitative faecal floatation techniques for identification and determination of endoparasitic burdens. Using SPSS (version 24), descriptive statistics were done to analyse the prevalence of endoparasitism.

Results: Of the 200 buffaloes, 151 (75.5%) were infected with at least one endoparasite, while co-infections were detected in 66 (33%). Juvenile animals exhibited a higher prevalence (83%) compared to adults (68%). Helminth ova of strongyles (52%), *Toxacara vitulorum* (5.5%) and *Capillaria* spp. (2.5%), and protozoan oocysts of *Buxtonella sulcata* (30.5%) and *Eimeria* spp. (29%) were detected.

Ivermectin was the primary anthelmintic used on farms highlighting potential anthelmintic resistance issues due to its misuse.

Conclusion: This is the first report of *Buxtonella sulcata* in water buffalo in Trinidad. While not zoonotic, this protozoan parasite can severely affect production resulting in poor growth rates, and increased mortality. Furthermore, this parasite is not responsive to conventional dewormers. The high prevalence and diversity of endoparasites indicate water buffaloes can be reservoirs of endoparasitic infection to other animals, especially cattle, and a need to develop and implement programmes to reduce infection and potential transmission.

P59

Farmers' Perceptions, Attitudes and Awareness on the Provision and Accessibility of Livestock Extension Services in Trinidad and Tobago

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Objectives: Agriculture extension services are integral to the development of livestock production sector. They facilitate the translation of research into farming practices, provide information on animal health, husbandry practices and diagnostic services that aide in the dissemination and adoption of good agricultural practices. This study evaluated the farmers' access to extension services, the best methods for communicating with farmers and their willingness to adopt technological advancements.

Methods: A questionnaire was constructed using Google Forms. Farmers were interviewed via on-farm visits or via telephone. All responses were tabulated, and descriptive data analysis done using Microsoft Excel.

Results: Overall, 35 farmers were surveyed. Interestingly, 66% of farmers were unaware of livestock extension workshops. Farmers were not familiar with major organizations such as University of Trinidad and Tobago (UTT) (34%) and Livestock and Livestock Product Board (LLPB) (17%). Most respondents (68%) utilised social media platforms. Of these, WhatsApp (87%) and Facebook (62%) being the most common. About 86% of farmers believed that livestock extension services would be beneficial to farm production. Lack of awareness (63%) and time constraints (71%) were the major factors preventing farmers from attending extension seminars. Most farmers (77%) relied on other farmers for information on farming practices.

Conclusion: Although, farmers in Trinidad are receptive towards extension services, there was a general lack of awareness of these services and were underutilized by

farmers. Social media platforms can be potential avenues to disseminate accurate, reliable information to the farming community. Furthermore, these platforms can increase rapid communication between farmers and livestock agencies.

P60

Farmers' knowledge and willingness to use artificial insemination on livestock farms in Trinidad and Tobago

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Objective: To evaluate the knowledge and willingness of livestock farmers, in Trinidad and Tobago (TT), to use artificial insemination (AI).

Methods: A cross-sectional study of TT livestock farmers was conducted. Using the National Farmer Registry, 217 farmers were surveyed via phone to assess current use of AI on livestock farms, willingness to use AI, knowledge of AI procedures and benefits, and factors influencing AI use. Data were tabulated in Microsoft Excel, and descriptive statistics generated using SPSS (v.24).

Results: Overall, 134 farmers participated (62% response rate), comprising dairy (33%), pig (38%) and small ruminant farmers (29%). Most respondents (46.3%) were aged 30-50 years and $27.6\% \ge 60$ years. Additionally, 53% reported having secondary education and 61% had no formal livestock production training. Approximately 72% of respondents stated previously using AI; however, 30% of them discontinued use with all these farmers citing unreliable AI service as the main reason. Most farmers associated AI with reduced disease transmission (97%), improved herd fertility (73%), and lower productions costs (54%). Interestingly, 97% farmers indicated they would use AI if a reliable service was available. Approximately 67% of pig farmers were willing to pay ≥\$50.00TTD for this service compared to 44% of small ruminant farmers and 32% of dairy farmers. Almost all farmers (99%) were willing to attend training programs to improve their knowledge of AI.

Conclusions: Results suggest farmers in TT were willing to utilize AI if a reliable, cost-effective service was available. Educational outreach courses are needed to increase knowledge of AI and other assisted reproductive technologies in livestock production.

P61

Challenges and Opportunities in Small Ruminant Farming in the Caribbean: A Preliminary Survey Analysis

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Objective: To identify the practices employed and the challenges encountered by small ruminant farmers in the Caribbean.

Methods: An online survey was distributed to farmers and farmer associations across the Caribbean. The survey collected data on farm location by country, type of farming system, species and breeds reared, farming objectives, income generation methods, access to veterinary care, and challenges ranked by impact. The calculated sample size for the survey was 385 respondents.

Results: The study, which was ongoing, had received 56 responses. Preliminary results indicated that the majority of farms (25%) had between 10 and 20 animals. About 67.9% of farmers used a semi-intensive system, and most reared small ruminants primarily for meat (69.6%) and live-animal sales (67.9%). Direct farm-gate sales were the main marketing channel for 57.1% of respondents. Farm operations were predominantly family-run (44.6%), with 32.1% of farms managed solely by the respondent. The most significant challenges identified were high feed costs (50%), theft (28.6%), and limited access to veterinary services (25%). Common health issues include endoparasitism (67.9%), dog attacks (51.8%), and hoof problems (50%). Additionally, 80.4% of respondents acknowledged the impact of climate change on livestock.

Conclusions: Initial findings suggest that small ruminant farming in the Caribbean was typically conducted on a modest scale and faces several substantial challenges. Key areas for further research include exploring alternative feed sources, addressing veterinary service accessibility, and enhancing marketing support to bolster the small ruminant sector in the region.

P62

E-Cigarette Use and Knowledge of its Effect on Oral Health among Health Sciences Students in Trinidad and Tobago

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Objective: To assess the prevalence of e-cigarette use, knowledge and attitudes regarding its safety, and implications for oral health among health sciences students.

Methods: The study comprised of 193 health sciences students, aged over 18 years old from the Faculty of Medical Sciences at the University of the West Indies, St Augustine (including Medicine, Dentistry, Veterinary Studies, Pharmacy, Optometry and Nursing). Participants completed an online self-administered questionnaire including demographics, e-cigarette use habits and effect on oral health. Data were analyzed using descriptive statistics.

Results: Majority were female participants (75%). The age range of participants was 18 to 38 years old with a mean age of 22 years. About 15% of participants used e-cigarettes. Most participants believed that e-cigarette use affected health (97.9%), was possibly addictive (91.2%), delivered nicotine (87%) and contained chemicals (87.6%). About 51.3% believed that e-cigarette use was related to tooth decay and 58.5% gum disease, and 44% of participants were not familiar with research on e-cigarette use and effects on oral health. Most participants thought information on the topic was important (78.3%) and would speak to a dentist about its effects on the oral cavity (71.5%). Moreover, 76% of participants indicated willingness to quit e-cigarette use if adverse oral health effects were understood.

Conclusions: Among this sample of health sciences students, e-cigarette use was low. There was limited knowledge of its effects on oral health. The adverse effects of e-cigarette use on oral health should be included in training of health sciences students to aid health promotion initiatives.

P63

Awareness of Dental Erosion and its Causes among a General Adult Population of Trinidad and Tobago

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Objective: This research investigated the awareness of dental erosion, its causes, and protective factors among a general adult population of Trinidad and Tobago.

Methods: An anonymous de-novo questionnaire was developed using Google Forms. It was subjected to face validity to ensure the inclusion of content relevant to erosive tooth wear and clarity of items intended for a general population. The questionnaire was administered on social media platforms (Facebook) and groups (WhatsApp Community Groups) specific to groups in Trinidad and Tobago for four months. Data were entered into SPSS (Version 29) and analyzed using cross-tabulations and Likelihood Ratios.

Results: Of the 210 respondents, 39.2% had previously been diagnosed with tooth wear, 43.1 % could identify erosive wear and 42.1% believed they could differentiate between predominantly erosive wear and dental caries. About 62.9%

of respondents identified sensitivity as a symptom of erosive tooth wear. Respondents were knowledgeable about causative factors including sugary foods (75.2%), and excessive consumption of soda (74.7%), citrus fruit (62.4%) and fruit juice (58.6%). Younger respondents (aged 18-40 years) had better knowledge of causative factors than those over 60 years: gastro-esophageal reflux disease (p=0.04), heartburn (p=0.049), eating disorders erosive wear (p=0.01), disorders of excessive vomiting (p=0.009), excessive wine consumption (p=0.04), and excessive pickled fruit and vegetable consumption (p=0.03). There were no statistically significant differences by gender in responses related to causative factors.

Conclusions: Respondents were generally knowledgeable about the various types of foods, beverages, and medical conditions that may cause dental erosion but were unfamiliar with other factors that may influence erosion or protect against dental erosion.

P64

Medical Students' Perspectives on Critical Thinking and Collaborative Learning in Problem-Based Learning

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Objective: To explore medical students' perceptions of how Problem-Based Learning (PBL) influences the development of critical thinking skills and investigate medical students' experiences with collaborative learning in PBL settings

Methods: This descriptive cross-sectional study explored medical students' perceptions on critical thinking skills and collaborative learning in PBL. Data were collected via a questionnaire from 262 medical students (years 1-3) at the University of the West Indies, St. Augustine, using convenient sampling. The questionnaire included demographic information and 5-point Likert scale measuring perceptions on critical thinking skills and collaborative learning in PBL. Data were analysed using IBM SPSS, with descriptive statistics (means, standard deviation (SD), frequencies, percentages) and inferential tests (t-tests, ANOVA, Post-hoc Tukey).

Results: Participants were predominantly second-year medical students (n=113, 42.2%), and the majority were female (70.5%). There was an age-group difference in perspectives of medical students: those less than 20 years old (mean \pm SD= 52.4 \pm 8.6), between 20 and 22 years (56.4 \pm 8.1) and more than 23 years old (4.3 \pm 6.4) (p=0.003). A post hoc Tukey test showed a significant difference between the perceptions of first-year (54.2 \pm 8.3) and second-year (56. \pm 8.14)

students on critical thinking in PBL (p=0.002). No significant difference was found on the basis of gender.

Conclusion: The study results suggest that medical students' perceptions on critical thinking and collaborative learning skills in PBL differ based on age and year of study, while gender did not appear to be a significant factor. These findings highlight the importance of tailoring PBL approaches to account for students' age and academic progression.

P65

Piloting Virtual Multiple Mini Interviews on Medical Students: A Multisource Feedback Analysis

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Objective: To evaluate the interviewers, facilitators and interviewees' feedback on online Multiple Mini Interviews (MMIs) piloted on newly accepted medical students.

Methods: Using a descriptive survey method, researchers created three self-directed questionnaires for interviewees (19 items), interviewers (14 items), and facilitators (9 items). They were administered to participants in 2021 and 2022. Data were analyzed using percentage, median and interquartile range (IQR) in SPSS v. 29. Information gathered from open-ended questions underwent thematic analysis

Results: A total of 305 interviewees, 118 interviewers and 50 facilitators took part in the study. The majority of interviewees (85.2% in 2021; 91.1% in 2022; with median = 3, IQR = 1) and interviewers (80% with median = 3 and IQR = 0 in 2021; 90.6% with median = 3 and IQR = 1 in 2022) agreed that MMIs helped to assess non-academic personal attributes, interests, and motivation to study medicine. Most of the MMI facilitators (88.9% with median = 2 and IQR = 0 in 2021; 87.5% with median = 2 and IQR = 1 in 2022) believed that the MMI process was well organized. In thematic analysis, some of the issues highlighted by the participants were disconnection of the internet, electricity outage, improper time management during the interview and challenges related to some of the scenarios.

Conclusions: Overall, interviewees, interviewers, and facilitators expressed positive perspectives on virtual MMIs. The adoption of technology for conducting MMIs is a welcomed innovation, even post-pandemic. Admission

staff should address issues related to case/scenario selection, time management, and technical support.

P66

An Evaluation of Heavy Metal Content in Water and Soils from Various Rivers in Trinidad, West Indies

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Objective: To evaluate the levels of specific heavy metals (Cadmium, Chromium, Copper, Manganese, Nickel, Lead and Zinc) in soil and water samples from five rivers in Trinidad.

Methods: Samples of river water and adjacent soil were collected in triplicate at different points along the North Coast, Nariva, South Oropuche, Ortoire, and Caroni rivers. Control samples were also obtained from a site with negligible anthropogenic influence (Rio Seco). Samples were filtered (water) or sieved (soil), digested with nitric acid, and diluted with deionized water, before analysis. Heavy metal content was determined using Flame Atomic Absorption Spectroscopy. Pearson's correlation analysis was used to determine relationships between metals in sediments and water independently.

Results: Chromium was not detected in any samples. Concentrations of Cadmium, Copper, Manganese, Nickel, Lead and Zinc in water ranged from 0.015 -0.087mg/L, 0.021 - 0.076 mg/L, 0.006 - 0.039 mg/L, 0.098 to 0.360 mg/L, 0.301 mg/L, and 0.023 - 0.034 mg/L, respectively. For soil, Cadmium, Copper, Manganese, Nickel and Zinc concentrations ranged from $0.78-1.37 \mu g/g$, $5.99-148.45 \mu g/g$, 42.31-692.28 $\mu g/g$, 18.43-73.20 $\mu g/g$ and 31.32-259.79 $\mu g/g$, respectively. The metal pollution indexes for all water samples were < 1, indicating no contamination. For soil those indexes exceeded 1 for all locations, confirming contamination in the order: Caroni> Ortoire> Nariva> South Oropouche> North Coast. Heavy metal content in most samples exceeded the United States Environmental Protection Agency and Canadian Council Ministers of Environment quality guidelines. For water, positive correlations were observed among all elements except Lead, while for soil positive correlations were obtained between Cadmium and Nickel (r = 0.551), and Copper and Zinc (r = 0.889).

Conclusions: Periodic contamination assessments and monitoring will be required to regulate and ensure these contaminants are kept below the accepted threshold.

P67

Challenges in Compliance with International Standard Organization (15189) Standards in Medical Laboratory Practice in Trinidad and Tobago: Results of a Pilot Study

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Objective: To determine the extent of compliance with International Standards Organization (ISO) 15189 standards and the competency of medical laboratory technicians at one of the busiest general hospital laboratories, Port-of-Spain General Hospital, in Trinidad and Tobago.

Methods: A cross-sectional 22-questionnaire tool was developed for the study and pre-tested before use. The questionnaire provided information on the participants' knowledge and opinion of ISO-15189 certification, the competence skills, staff compliance, and how compliant the Port-of-Spain General Hospital Pathology Laboratory was with ISO-15189 competency standards. The questionnaire was self-administered to 42 medical laboratory technicians.

Results: Data analysis showed that the majority (78%) of the laboratory technicians were employed at the lowest technician grade, and most of them were less or 50 years old. Forty-six percent (46%) of participants had 5 years or less working experience as a medical laboratory technician, and more than 30% of the technicians did not know what ISO-15189 certification entailed, nor were aware of the ISO competency standards. Most of the participants indicated that the technicians were not trained in ISO standards and that there were no procedures in place to ensure that the ISO competency standards were maintained.

Conclusions: There was apparent conflict in the participants' responses that appeared to be related to ignorance of the essence of standard operating procedures which technicians follow in routine practical laboratory work. Therefore, it is suggested that formal training at regular intervals should be instituted in the laboratory in compliance with ISO-15189 standards.

P68

Establishing A Population-Based Reference Range for The Complete Blood Count Profile for The Population Served by The South West Regional Health Authority.

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Objectives: To develop Complete Blood Count reference intervals (RIs) for the population served by the South-West Regional Authority and determine if there are differences between the developed RIs and the manufacturer's RIs adopted from the Coulter Corporation.

Methods: A descriptive cross-sectional study was conducted at the Blood Bank Department of the San Fernando General Hospital. Using convenience sampling, a total of 366 blood donors (198 males and 168 females) who passed the donor and health screening tests and contributed a unit of blood to the Blood Bank, agreed to have their residual blood used in the study. Sample collection and handling followed standard operating procedures. SPSS software was used for nonparametric statistical analysis such as the Wilcoxon Rank Sum test and Pearson's Correlation. RIs were established for all participants after double-checking outliers with grossly abnormal test results. RIs for 20 parameters were developed which reflected red blood cells, white blood cells (WBC), and platelet values.

Results: Differences were seen between the developed RIs and the manufacturer's RIs in all 20 parameters. The upper limits for WBC, neutrophil, and eosinophil were greater for both genders compared to the manufacturer's RIs. Haemoglobin lower limits for males and females (12.70 g/dL and 11.02 g/dL) respectively were lesser than the manufacturer's RIs (13.60 g/dL and 11.70 g/dL). The reasons for the observed differences were not determined and may have been due to genetic adaptation, poor nutritional status, and increased exposure to allergens and parasitic infections.

Conclusions: Population-specific RIs should be developed to improve patient treatment and management. Further investigations are required to determine if there are population differences within other blood test profiles.

P69

Histological Evaluation of Absorption Pattern and Inflammatory Cell Response of Mild Treated Chromic Catgut in Three Different Tissues of Wistar Rat

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Objective: This study aimed to evaluate the variation in histological tissue response and absorption patterns of mild chromic catgut in different tissues (subcutaneous tissue, abdominal, and thigh muscles) using a rat model.

Methods: Rats were randomly divided into three experimental groups (n=5 per group): abdominal muscles (AMG), thigh muscles (TMG), and subcutaneous tissue (STG). Mildly treated chromic catgut (3/0) was implanted in each tissue type. After euthanasia at intervals of seven days, tissue samples were histologically evaluated for absorption patterns and inflammatory cell responses. The tissues were fixed, dehydrated, cleared with xylene, embedded in paraffin, sectioned, and stained with Hematoxylin and Eosin. Tissue compatibility or response to the implanted mild chromic catgut was evaluated using semi quantitative measure-

ment based on the type of inflammatory cell response score using histomorphometric images at 100x magnification. Statistical analysis included one-way ANOVA to compare the mean diameter of the catgut and nonparametric ANOVA for median inflammatory response scores, with significance at p < 0.05.

Results: The mean suture diameter decreased significantly (p < 0.05) over time in all groups. Absorption patterns varied significantly (p < 0.05) among the tissues, with the thigh muscle and subcutaneous tissues showing better absorption than abdominal muscle. The inflammatory cell response decreased over time, with the thigh muscle group showing the least inflammatory response, followed by subcutaneous tissue and abdominal muscle.

Conclusions: Thigh muscle tissue demonstrated the fastest absorption rate and greatest biocompatibility with mild chromic catgut (3/0), showing the least inflammatory response among the three tissues tested.

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