
Scientific Abstracts | Day 1

February 23, 2023

Wound Care Congress 2023



7th World Congress on
WOUND HEALING AND CRITICAL CARE
February 23-24, 2023 | Dubai, UAE

Wound Healing and Nursing Care | Negative Pressure Wound Therapy | Diabetic Care



Chair
Windy Cole
Kent State University College of
Podiatric Medicine | USA

Session Introduction

Title: Importance of wound care in nursing education

Angie Machado | Spectrum Health Solutions and Advanced Health Institute | USA

Title: Operative versus non-operative treatment in diabetic dry toe gangrene

Abdullah AlWahbi | King Saud University for Health Sciences | Saudi Arabia

Title: Therapeutic and nutraceutical potential of marine macroalgae: Benefits to human health

Ana Marta Gonçalves | University of Coimbra | Portugal

Title: Trends in pressure injury development in patients with lower motor neuron and upper motor neuron lesions: A retrospective descriptive study

Quyên Nguyen Catania and **Marjorie Morgan** | Kennedy Krieger Institute | USA

WOUND HEALING AND CRITICAL CARE

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Importance of wound care in nursing education

Angie Machado

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The skin is the largest organ of the body, as medical professionals we need to be able to care, monitor and protect the skin from breakdown caused by disease processes which result in wounds. This is not always an easy task as wound care is not included in the nursing syllabus. When the hospitals were closed, nursing students lost clinical time. This then can lead to additional problems when nurses are taxed with complete head to toe or wound assessment. Quality measurements and documentation may be missing. Here is another important detail: does the documentation and patient diagnosis support the physicians' recommendations and facility to receive payment? Type of wound may be incorrect.

This may result in, misdiagnosis of a wound and may lead to failure to provide proper treatment or cause a delay in treatment and closure.

What can go wrong if the proper wound care is not provided? Let's take a look at some photos of actual cases and review what happened, or should have happened. At the end of the day remember, the patient is the one that suffers the consequences of our actions: failure to stay of education and breach of duty. The reality is these are the top four reasons for malpractice and negligence lawsuits from patients. Lawsuit: That is one word that no one ever wants to hear. So, what can a healthcare provider, facility or company do to decrease the risk of a lawsuit?

Option

1. Education wound care certified
2. CE wound classes.

Education in wound care has positive results not only for the nurse, employer, physician APRN or PA. It also has a positive impact on the patient.

Recent Publications

1. Machado, Angie (2021) "A bioresorbable antimicrobial nanoparticle matrix: the "Swiss army knife" of wound matrix dressings. SAWC Fall 2021 Abstract Book pp.19
2. Machado, Angie (2022) "A "Wound" to the Wise: Practical Tips and Tricks of Wound Care and Closing Remarks" WoundCon Summer 2022

Biography

Angie Machado has worked in the healthcare industry since 1977. She completed her practical nurses training in 1981 from Fergus Falls Community College, MN, USA. She studied nursing at St. Catherine's University from 1996 - 2000. She recognized her passion with wounds and received her wound certificate from the NAWCO in 2011, OWCNAHP in 2018 and diabetic wound certification from the NAWCO in 2021. She is a faculty instructor in wound education at Advanced Health Institute; while working full time in Clinical Education and Research: providing education, consultations and training in wound management at Spectrum Health Solutions.

Christina Rahm has worked as a medical, clinical, and research scientist in the pharmaceutical, nutraceutical, and biotechnology industries for Janssen, Johnson & Johnson, Biogen Idec/Biogen, UCB, Bristol Myers Squibb, and Alexion. Additionally, she worked on the corporate side for Pfizer, Biogen, and Janssen and is currently the Chairman of International Science Nutrition Society and Chief Science Officer for ROOT Wellness. She has also served as a formulator for several companies and manufacturing labs, including her own.

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Operative versus non-operative treatment in diabetic dry toe gangrene

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Background and aim: Diabetic foot is a major comorbidity of diabetes, with 15–25% of diabetic patients developing diabetic foot ulcer during their lifetime. Other major diabetic foot complications include cellulitis, abscess, wet gangrene, dry gangrene, and necrotizing fasciitis. Dry gangrene involves tissue necrosis due to chronic ischemia whereby the tissue becomes numb, dry, wrinkled, and dead. Although diabetic foot complications have been extensively studied in literature, there is limited data on the management of dry gangrene.

Methods: We report a case series of 12 patients with diabetes-related dry gangrene in the toes, initially planned to be managed conservatively with autoamputation.

Results: One patient had an autoamputation, while eight patients underwent surgical amputations (six major amputations, two minor amputations) for better clinical outcomes. Two patients died, while no change was observed in one patient even after 12 months of follow-up.

Conclusion: Managing diabetic dry toe gangrene by waiting for autoamputation may lead to worse clinical outcomes and should be practiced cautiously on a case-by-case basis. Early surgical intervention should be opted to improve patients' quality of life

Recent Publications

1. Abdullah Al Wahbi, Evaluation of pain during endovenous laser

ablation of the great saphenous vein with ultrasound-guided femoral nerve block (2017) *Vascular Health and Risk Management* Volume 13:305-309

2. Abdullah Al Wahbi Isolated large vulvar varicose veins in a non-pregnant woman (2016) *SAGE Open Medical Case Reports* 4 doi:10.1177/2050313X16672103

Biography

Abdullah Al Wahbi is Graduated in 1991 and completed a year of Internship with Degree of Honor. In 1992, he Joined King Abdulaziz Medical City, Riyadh, Saudi Arabia - a level I trauma center- as a resident in the Arab Board for General Surgery- five years training program. In 1995 he received a Fellowship of the Royal College of Surgeons (Edinburgh, UK) - in the 3rd year of residency. In 1997, he was awarded as Resident of the year award. In 2001 established a Diabetic Foot Program, a multidisciplinary program in prevention and management of diabetic foot complications. Contributed in a book chapter about diabetic foot in the Arab world (UK) and published few articles. Actively involved in the treatment of patients with renal failure requiring vascular access surgery, with extensive experience in primary, secondary and complex vascular access procedures and also in the use of implantable access ports. In 2005 Best Tutor Award. In 2007, he became Assistant Professor Surgery, King Saud University for Health Sciences (KSU-HS). Currently he is working as Associate Professor Surgery, King Saud University for Health Sciences (KSU-HSU). Dr. Abdullah Al Wahbi has extensive clinical and operative experience in all areas of vascular surgery including the management of varicose veins, chronic venous disease and leg ulceration, management of all major arterial problems like aortic aneurysms, carotid artery disease, and peripheral vascular disease.

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Therapeutic and nutraceutical potential of marine macroalgae: Benefits to human health

Ana Marta Gonçalves

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At the last decade increased the interest and search for new natural compounds from marine biodiversity to discover novel bioactive substances. It is expected that many naturally bioactive marine compounds with novel structures and bioactivities may be found among marine metabolites. Furthermore, due to increasing global population, securing nutritious and secure food supply is paramount. The production in food products should raise in 60%, being crucial to maintain the high nutritional composition and quality of food products. Still, with the constant and aggravated depletion of our natural environments, such as water and soils supplies, the foundations of our food production are compromised.

There is a demand for alternative food sources, that as well envision a sustainable way for the exploration of these foundations in which our food productions lie. In that scenario, there is a great interest in macroalgae biomass and resource exploration with a substantial body of evidence supporting macroalgae nutritious potential. Marine macroalgae produce significant amounts of primary and secondary metabolites that present a wide variety of bioactive properties, including antioxidant, antiviral, antimicrobial, antitumoral, anti-inflammatory, anti-aging or immunomodulatory potential, with also antibiotic properties.

These molecules are promising candidates for many possible applications such as in pharmaceutical, nutraceutical, cosmetic and medicine areas but also in agriculture or feeding. These applications may promote several benefits to humans' daily life, and so to a better quality of life. Still, some substances may be poisonous to humans and to other organisms, or become toxic upper to a certain quantity. In this

topic will be focused the marine macroalgae benefits, applications in industrial sector and therapeutic potential, with special attention in food industry and nutraceutical potential, highlighting novel recipes developed in project MENU.

Recent Publications

1. Ana Marta Gonçalves and Silvia Lomartire -Novel Technologies for Seaweed Polysaccharides Extraction and Their Use in Food with Therapeutically Applications September (2022) *Foods* 11(17):2654 doi:10.3390/foods11172654
2. Ana Marta Gonçalves and Manuel A Coimbra et All Seaweed in Food Industries: Raw Materials, Processing, Formulations, Packaging November (2022) doi:10.2174/97898150518721220100200

Biography

Ana Marta Gonçalves has her expertise in biosafety and the valorisation of marine resources and their applications in the industrial sectors, such as food, pharmaceutical and in agriculture. Sustainable and healthy food products from marine resources (seaweed) are developed for a premium diet with appropriate nutritional balance and potential functional benefits based on a circular economy production. Her studies also focus in biochemical pathways and the impacts of stressors in aquatic species to assess and improve the health status of the ecosystems and wellbeing. Biomarkers tools are used to assess the individuals' body condition, monitoring water changes and management of aquatic systems. Ana Marta Gonçalves holds various administrative and science management positions in international networks giving her vast experience in this area. During her research career obtained several grants in highly international competitive calls, including MARS award for young scientists funded by The Royal Netherlands Institute for Sea Research (NIOZ)

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Trends in pressure injury development in patients with lower motor neuron and upper motor neuron lesions: A retrospective descriptive study

Quyen Nguyen Catania and Marjorie Morgan

Kennedy Krieger Institute, USA

Article that was published in Wound Management & Prevention Persons with spinal cord injury (SCI) are at high risk of pressure injury (PrI) development. This retrospective descriptive review will explore the effect of injury patterns (upper motor neuron [UMN] or lower motor neuron [LMN]) on PrI risk. Persons with neurological levels T8 and below, any type of SCI motor ability, and who were treated at a specialized outpatient SCI rehabilitation center in Baltimore, MD, between January 1, 2013, and December 31, 2019 were included. Of the 602 records examined, 194 were complete and met inclusion criteria. Most patients (119, 61.34%) were male and classified in the UMN group (162, 84%). Mean age and time since injury were 35.20 ± 18.78 and 6.20 ± 7.62 years, respectively. Seventy-three (73) of 194 patients (37.6%) had, or had a history of, a PrI; 21 (66%) in the LMN and 52 (32%) in the UMN group ($X^2 1 = 12.8$; $P < .001$). Statistically significant differences were noted between patients with LMN and UMN for the following: Braden Scale scores, age, body mass index, Spinal Cord Independent Measures-III, and time since injury. More patients in the LMN group had motor complete injuries (ISNCSCI levels A/B ($P < .001$)) and were non-ambulatory ($P < .001$) compared to those with UMN. The results of this study confirm that patients with SCI

have a high rate of PrI development. The percentage of PrIs was significantly higher in the LMN than in the UMN group. Information presented in this review is limited by its retrospective nature and small sample size and additional studies are needed.

Recent Publications

1. Catania, Quyen Nguyen et al "Activity-Based Restorative Therapy and Skin Tears in Patients with Spinal Cord Injury." *Advances in skin & wound care* vol. 31,8 (2018): 371-373. Doi: 10.1097/01.ASW.0000534700.57785.84

Biography

Quyen Catania is a physical therapy and Clinical Education and Training Coordinator at Kennedy Krieger Institute, International Center for Spinal Cord Injury in Baltimore, MD. She graduated from University of Notre Dame with a Bachelor of Science and Washington University in St. Louis with her Doctorate in Physical Therapy. She obtained her Certified Wound Specialist in 2016, Certified Lymphedema Therapist in 2017, and Neurologic Specialist Certification in 2020. She has been an integral part of expanding lymphedema and wound care services at Kennedy Krieger Institute, International Center for Spinal Cord Injury

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Sessions on

February 23, 2023

Foot and Ankle Wound Care | Wound Management | Wound care and Pressure Injury



Chair

David B Alper

American Diabetes Association | USA

Session Introduction

Title: Addressing socioeconomic disparities in limb salvage

Christine Miller | University of Florida | USA

Title: Self-proning kits to reduce hospital-acquired pressure injuries in Covid-19 patients

Marissa Hudler | Baylor Scott and White Health | USA

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Addressing socioeconomic disparities in limb salvage

Christine Miller

University of Florida, USA

This presentation highlights the specific challenges that Limb Salvage teams face at Safety Net Hospitals including limited access to care, nutritional deficits, and barriers to support services. The learning goals & objectives for this session include:

- Explore the necessary components for a multidisciplinary care team
- Review the socioeconomic challenges that safety net hospitals face
- Provide strategies for improving outcomes and overall quality of care

The anticipated time for this session is between 30-40 minutes and case studies will be included

Recent Publications

1. Miller, Christine, "Chronic Venous Leg Ulcerations: healing more

than skin deep" Wound Central, Volume 6, series 3, July 2022 pp.2

2. Miller, Christine, "Chapter 1: Nutritional and psychological considerations for patients undergoing revisional foot and ankle surgery, Revisional and Reconstructive Surgery of the Foot and Ankle, Lippincott Williams & Wilkens, March 2022, pp. 409-427
3. Miller, Christine "Journeying Through Progress in Diabetes Treatment: A Historical Perspective", Diabetes Watch-Podiatry Today, Volume 32, December 2022

Biography

Christine Miller is Chair of the American College of Clinical Wound Specialists, Medical Director of the Orthopaedic Ambulatory Care Center (ACC) and Co-Director of the Limb Salvage Program at the University of Florida, College of Medicine-Jacksonville. Dr. Christine Miller also serves as the Clinical Trial & Patient Safety Liaison for the Department of Orthopaedic Surgery

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Self-proning kits to reduce hospital-acquired pressure injuries in covid-19 patients

Marissa Hudler

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In July 2021, there was an increase in hospital-acquired pressure injuries (HAPI) on patient's self-prone (SP) with covid-19. Patients with Covid-19 had to self-prone themselves to improve their breathing and oxygen saturation for multiple hours a day. The purpose is to reduce the number of HAPI by developing a SP kit for the patients who self-prone.

SP patients started to develop HAPI's without pressure injury (PI) prevention measures. Nurses and respiratory therapists (RT) lack knowledge on preventing PI for the patients who were SP. Before implementing SP kits for patients with covid-19, the HAPI rate for July 2021 was 0.48 per 1,000 patient days.

Physicians, nurses, respiratory therapists, and wound care collaborated to assess best practices and products for prone patients. The development of SP kits included silicone foam dressings, static air cushions, breathable moisture-wicking foam, and a head positioner. Wound care and nursing collaborated to make grab-and-go kits for staff to give to SP patients. Healthcare providers educated patients on the SP kit and assisted with application and use of the kits. The goal was early recognition of SP patients and implementation of the kit to reduce the number of HAPI.

The interventions took place in August 2021. An education plan included in-services, educational flyers, and product guides to physicians, nursing, respiratory therapist, and wound care on contents and use of the kits. A cart in the supply room with pre-made kits and staff awareness on the importance of adopting and integrating SP kits reduced the number of HAPI in Covid-19 patients.

In August 2021, the HAPI rate decreased to zero, and there has not been a HAPI since the development and implemen-

tation of SP kits.

Recent Publications

1. Martel, T., & Orgill, D. P. (2020). Cutting Edge Care Delivery in Response to the Covid-19 Pandemic: Medical Device-Related Pressure Injuries During the COVID-19 Pandemic. *Journal of Wound, Ostomy, and Continence Nursing*, 47(5), 430.
2. Perrillat, A., Foletti, J. M., Lacagne, A. S., Guyot, L., & Graillon, N. (2020). Facial pressure ulcers in COVID-19 patients undergoing prone positioning: How to prevent an underestimated epidemic? *Journal of stomatology, oral and maxillofacial surgery*, 121(4), 442-444. Smart, H. (2021). Strategies for Pressure Injury Prevention in Patients Requiring Prone Positioning. *Advances in Skin & Wound Care*, 34(7), 390-391.
3. Martel, T., & Orgill, D. P. (2020). Cutting Edge Care Delivery in Response to the Covid-19 Pandemic: Medical Device-Related Pressure Injuries During the COVID-19 Pandemic. *Journal of Wound, Ostomy, and Continence Nursing*, 47(5), 430.
4. 2. Perrillat, A., Foletti, J. M., Lacagne, A. S., Guyot, L., & Graillon, N. (2020). Facial pressure ulcers in COVID-19 patients undergoing prone positioning: How to prevent an underestimated epidemic? *Journal of stomatology, oral and maxillofacial surgery*, 121(4), 442-444. Smart, H. (2021). Strategies for Pressure Injury Prevention in Patients Requiring Prone Positioning. *Advances in Skin & Wound Care*, 34(7), 390-391.

Biography

Marissa is the regional wound care manager for Baylor Scott and White Health in the Austin Region, USA. Marissa is a pioneer in wound care education and successfully developed and implemented pressure injury prevention programs across multiple hospitals. She completed her MSN in Nursing Administration and a certification in Nursing Education from the University of Texas at Arlington, USA. She has over 15 years of experience in wound care, presented at multiple national and international conferences

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Young Researcher Forum February 23, 2023

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Borrowing from nature: Placental therapy a significant tool for wound healing therapy

Madhu Gupta

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The placenta maintains and regulates the growth of foetus and consists of various biologically active nutrients such as cyto medicines, vitamins, trace elements, amino acids, peptides, growth factors and other biologically active constituents. The therapeutic effectiveness of the placenta can be well defined with respect to several biochemical mechanisms of various components present in it. The placental extract derived from biomedical wastes has also shown a great potential for treatment of various diseases. Placental therapy has been reported specifically to have potent action on treatment of diseases and tissue regeneration. Placental bioactive components and their multi-targeting identity prompted us to compile the précised information on placental extract products. However, some findings are needed to be explored by scientific community to prove their clinical potential with significant statistical validation. In the light of available information and the usefulness of the placental extract, it is necessary that the formulations of various desirable properties may be developed to meet the clinical requirements in several treatment paradigms. It is also a matter of exploration that the short and long-term adverse effects to be explored by advanced scientific techniques.

Recent Publications

1. Madhu Gupta and Amrita Kumari et al Wound-Healing Effects of Curcumin and Its Nanoformulations: A Comprehensive Review, *Pharmaceutics* 2022, 14, 2288. <https://doi.org/10.3390/>
2. Madhu Gupta, Neha Raina, Rakesh Pahwa et al Drug Delivery Strategies and Biomedical Significance of Hydrogels: Translational Considerations, *Pharmaceutics* 2022, 14, 574. <https://doi.org/10.3390/pharmaceutics14030574>

Biography

Madhu Gupta is working as an Associate Professor in Delhi Pharmaceutical Science and Research University, New Delhi. She has research experience pertaining to drug delivery to nano formulations for magical molecule delivery, bioligands for targeting of bioactive and drug moiety, biopolymers, cancer nanomedicine as well as topical delivery. She has over 80 research publications to her credit published in journals of high scientific impact and contributed 30 chapters in various renowned books with h index 20 and more than 1000 citations. She has the recipient of Research Excellence of the Year 2020, Youth Education Icon of the Year 2018, Young Scientist Award, Best Administrative Service Award, IDMAG.P. Nair award and Prof. C.S. Chauhan award, Bio Asia Innovation Award – 2012, Grace India awards. She has also filed the PCT patent for effective wound healing therapy.

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Diabetes and foot care: Practices of Pakistani patients towards diabetic foot care, a qualitative study

Maryam Nazir

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The word Diabetes always comes in mind with associated complications in which diabetic foot is one of them. It's a condition of calluses or corns or ulcerations in foot of individual affected with diabetes. The risk factors of diabetic foot are peripheral neuropathic and angiopathy, that always comes with poor negligence and improper foot care. Pakistan is a country where 26.7% adults are affected with diabetes in which diabetic foot is commonest complication.

Objectives: To understand the practices of Pakistani patients towards diabetic foot care.

Methodology: A Qualitative study based on semi-structured

interviews was done. A total of 25 interviews were conducted with diabetic patients affected by foot ulcers, calluses, and fungal infections. The interviews were recorded in Urdu and translated into English. The average time of the interview was 5min. After the interview, proper counseling of the patient regarding foot care was done. This study was conducted in the Medicine Department of Madina Teaching Hospital and in PAF Hospital from November 2022 to February 2022

Results: The research is continued till February and results will be shared at Conference

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Children and burn wounds: Practices of Pakistani mothers towards child's 1st aid

Kinza Arif

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Background: Pakistan is a country where the female labor force is the lowest in the region. Mothers primarily raise their children from infancy to preschool along with household chores. Preschoolers are curious in nature and thus more susceptible to injury, burn injury being one of them. Mothers are the immediate 1st aid providers in such circumstances and their practices can majorly affect the outcome.

Objectives: To understand the practices of pakistani mothers towards children 1st aid in burn injury.

Methodology: A descriptive study design was used in which structured interviews were taken and analyzed by descriptive statistics. A total of 8 interviews were conducted with mothers having children affected by burn injuries regarding 1st aid. The interviews were recorded in Urdu, transcribed verbatim, and translated in English. The average time of interview was 2min. This study was conducted in the outpatient department of Dermatologists and Plastic Surgeons in a Tertiary care hospital from October 2022 to December 2022.

Results: The Participants were preschool children: 3 out of 6 (50%) were less than 1 year old, 2 out of 6 (33%) were less than 2 years and only 1 child was 3 years old. 50% were boys and 50% were girls. Out of 6 children, 5 of them suffered from scald injury and only 1% had a steam burn. Then the percentage of the burn was calculated through the Lund and Browder chart, 3 of them had less than 5% injury and the remaining 3 were from 10 to 15%.

Recent Publications

1. Beauty standards in the people of Pakistan. - Presented at the 1st International Conference of Dermal Science.
2. Tele dermatology, the future of dermatology: Making follow-up easier for psoriatic patients and physicians.
3. The stereotype of the title "Dr" in the selection of profession among young adults

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Prevalence and determinants of lower extremity amputations among type I and type II diabetic patients: A multi-center -based study

Lawrence Sena Tuglo

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The incidence of diabetes-related lower-extremity complications is increasing globally, yet the condition in developing countries, particularly those in sub-Saharan Africa, is unclear. This study determined the prevalence and determinants of lower extremity amputations among type I and type II diabetic patients at health facilities in the Volta Region, Ghana. This was a multicenter-based study involving 473 diabetic patients. Sociodemographic, lifestyle, medical, biochemical, and anthropometric data were obtained systematically with a pretested structured questionnaire. The prevalence rate of lower extremity amputations (LEAs) was 1.9%. LEAs were linked to the male gender (unadjusted odds ratio [UOR]=5.86; 95% confidence interval [CI]=1.44-23.82; P=.013), smokers (UOR=10.12; 95% CI=2.63-38.91; P=.001), type I diabetic patients (UOR=4.74; 95% CI=1.24-18.10; P=.023), family history of diabetes mellitus (UOR=9.18; 95% CI=2.25-37.46; P=.002), diabetic foot ulcers (adjusted odds ratio [AOR]=8.62; 95% CI=1.58-47.62; P=.013) and obesity (AOR =6.20; 95% CI=1.00-38.04;

P=.049). This study showed a relatively low prevalence rate compared to previous studies within Ghana. However, it is a major concern in public health that needs to be addressed since diabetes-related LEAs are connected to global major morbidity and mortality.

Recent Publications

1. Tuglo, L.S. Comparison of adiposity anthropometric indices and their associations with visceral fat levels determined by bioelectrical impedance analysis among diabetic patients. *Sci Rep* 12, 17824 (2022). <https://doi.org/10.1038/s41598-022-22848-z>
2. Lawrence Sena Tuglo, Vivian Kumordzi, et al The Association Between Pregnancy-Related Factors and Health Status Before and After Childbirth With Satisfaction With Skilled Delivery in Multiple Dimensions Among Postpartum Mothers in the Akatsi South District, Ghana, *Frontiers in Public Health* 7, Feb (2022), DOI:10.3389/fpubh.2021.779404

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