

**RESEARCH
PUBLICATIONS OF
OUSL STAFF- 2021**



THE OPEN UNIVERSITY OF SRI LANKA

**FACULTY OF
HEALTH
SCIENCES**

FACULTY OF HEALTH SCIENCES

Department	Books/ Book Chapters	Journal Publications	Conference proceedings /abstracts/ extended abstracts
Department of Basic Sciences	4	3	1
Department of Medical Laboratory Sciences	0	4	7
Department of Nursing	0	4	15
Department of Pharmacy	0	5	9
Department of Psychology & Counseling	0	5	4
Total	4	21	36

DEPARTMENT OF BASIC SCIENCES

Books/Book Chapters

1. Vivehananthan, K (2021). Handbook of Laboratory Management: Focusing on Molecular Biology, pp 1- 51. ISBN 978-624-97796-4-8.
2. Vivehananthan, K. (2021). Application of Biotechnology and ITS Regulation: Training Programme Report 2009. pp 1-31. ISBN 978-624-97796-0-0.
3. Vivehananthan, K. (2021). Construction and Screening of Large DNA Insert Libraries: Research Report 2003. pp 22. ISBN 978-624-97796-2-4.

4. Vivehananthan, K (2021). Science, Technology and Innovation System in the context of Biotechnology in Sri Lanka: Country Strategy Paper 2015, pp 10. ISBN 978-624-97796-1-7.

Journal Publications

1. Vivehananthan, K Thevashayinath. S and Abeygunawardena I (2021). Extraction and Screening of Biofilm producing Bacterial isolates in short term and long term Catheters. *Advances in Technology*, 1 (2), 329-345. ISSN 2773-7098.
2. Vivehananthan K and Heshani Weligodage (2021). Effect of Different Process Parameters on the formation of Silver Nanoparticles using Crude and Modified Neem (*Azadirachta indica*) Leaf Extracts. *Advances in Technology*, 1 (2), 266-276. ISSN 2773-7098.
3. Vivehananthan, K and Luphzhly, M.P.D.L (2021). Detection of *mecA* gene and identification of potential methicillin-resistant *Staphylococcus aureus* in hospital wastewater samples. *Advances in Technology*. 1 (1), 89-100. ISSN 2773-709.

Conference proceedings/abstracts/extended abstracts

1. Arampola, A.M.U.B., Munasinghe, W.G.H.P.K., & Kumari, P.M.S.S. (2021). Analysis of flood frequency at lower reach of Kelani river in Sri Lanka. *Proceedings of the Open University Research Sessions (OURS 2021)*, Sri Lanka. pp 65.

DEPARTMENT OF MEDICAL LABORATORY SCIENCES

Books/Book Chapters

None

Journal Publications

1. Wimalasiri-Yapa, B. R., Barrero, R. A., Stassen, L., Hafner, L. M., McGraw, E. A., Pyke, A. T., & Frentiu, F. D. (2021). Temperature modulates immune gene expression in mosquitoes during arbovirus infection. *Open biology*, 11(1), 200246.
2. Herath, S., Balendran, T., Herath, A., Iddawela, D., & Wickramasinghe, S. (2021). Comparison of diagnostic methods and analysis of socio-demographic factors associated with *Trichomonas vaginalis* infection in Sri Lanka. *PLOS ONE*, 16(10), e0258556.
3. Weeramange, C. E., Liu, Z., Hartel, G., Li, Y., Vasani, S., Langton-Lockton, J., & Punyadeera, C. (2021). Salivary High-Risk Human Papillomavirus (HPV) DNA as a Biomarker for HPV-Driven Head and Neck Cancers. *The Journal of Molecular Diagnostics*, 23(10), 1334-1342.
4. Sheriff, F. A., Dissanayake, R. K., Wijesundara, C., Bandaranayaka, K. O., & Chathuranga, G. (2021). Prevalence, knowledge and selected associated factors of anaemia among non-pregnant females of reproductive age in a tea estate community in Hantana, Kandy district, Sri Lanka. *American journal of blood research*, 11(4), 438.

Conference proceedings/abstracts/extended abstracts

1. De Silva, K.K.D.S., Jayarathna, N. , Wijeratne, D.T. , Jayhilleke, B.G. (2021). Using electronic course material for learning: perceptions of medical laboratory science undergraduates 'Proceedings of the 34th Annual Conference of Asian Association of Open Universities (AAOU2021) held from 21-23 October 2020 at Cinnamon Grand Hotel, Colombo, Sri Lanka.
2. De Silva, S.L., Gunarathna, H.D.N.T., Rajakulasooriya, R.S.R., Thambavita, D. (2021). Assessment of knowledge and practices related to technical requirements recommended by ISO 15819:2012 standards among medical laboratory technology staff in tertiary care hospitals and institutions in Western Province, SRI Lanka. *Proceedings of the 30th anniversary academic sessions.* (pp 58).

3. Dissanayake, R.K., Ranaweera, K.K.P.T., & Priyadarshani, A.M.B. (2021). The effect of bilirubin on laboratory investigations on serum creatinine: A comparison study between Jaffe reaction and Creatinase enzymatic method with creatinine in phosphate buffered saline solution and serum. *Proceedings of Clinical and Experimental Health Sciences*. (pp. S10).
4. Herath, H.M.S.P., Iddawela, W.M.D.R., & Wickramasinghe, W.D.S.J. (2021). Diagnosis, prevalence and risk factors of *Trichomonas vaginalis* infection in Sri Lanka. *Proceedings of 8th Ruhuna International Science and Technology Conference. University of Ruhuna*. (pp.38).
5. Rathnayake, R.G.L., Hettiaratchi, U.P.K., & Perera, P.P.R. (2021). Association of serum leptin with BMI, body fat percentage and Q223R leptin receptor gene polymorphism in an adult female population. *Proceedings of 3rd Conference of College of Biochemists of Sri Lanka*. (pp. 33).
6. Weeramange, C.E., Liu, Z., Hartel, G., Li, Y., Vasani, S., Langton-Lockton, J., Kenny, L., Tang, K.D., & Punyadeera, C.(2021). Diagnostic and prognostic utility of salivary high-risk Human Papillomavirus detection in Oropharyngeal cancer. *Proceedings of Griffith Cancer Research Network Symposium, 28th October 2021*.
7. Weeramange, C.E., Liu, Z., Hartel, G., Li, Y., Vasani, S., Langton-Lockton, J., Kenny, L., Tang, K.D., & Punyadeera, C.(2021). *Utility of Salivary Human Papillomavirus DNA for HPV driven Oropharyngeal Cancer Detection. Proceedings of Saliva Symposium Australia* (online) 10th June 2021.

DEPARTMENT OF NURSING

Books/Book Chapters

None

Journal Publications

1. Ali, A., Khaliq, A., Laavanya, L., Meherali, S., Lassi.Z.S. (2021). Prevalence and predictors of teenage pregnancy in Pakistan: a trend analysis from Pakistan Demographic and Health Survey datasets from 1990 to 2018. *International Health*, 2021,0,1-7. <https://doi.org/10.1093/inthealth/ihab025>
2. Edussuriya, S.J., Subhashini, S.Y. S., Amarasinghe, K.D.S., Kumari, G.S.D., Perera, .K. M.O.N. & Munidasa, K.G.P.K. Experiences of Patients on Natural Herbal Treatments for Diabetes Mellitus at the Diabetes Clinic in Base Hospital - Matara, Sri Lanka. *Journal of Patient Experience. Volume 8* 1-5 DOI: 10.1177/23743735211039313.
3. Lasanthi, K.G.R., Somarahna, R.I.B.D., Ranathunga R.M.S.B., Wickramasinghe, W.G.A.N., De Silva B. S. S. & Marikar, F. M. M. T. (2021). Understanding experiences of young adult males with below-knee amputation. *Philippine Journal of Nursing*, 91(1), 30 - 38.
4. Yapa, H.E., Purtell, L., Chambers, S. and Bonner, A. (2021), Alterations in symptoms and health-related quality of life as kidney function deteriorates: A cross-sectional study. *Journal of Clinical Nursing*, 30, 1787-1796. <https://doi.org/10.1111/jocn.15738>.

Conference proceedings/abstracts/extended abstracts

1. Athukorala, A.D.M., Hatanarachchi, H.A.W.S., Wijesinghe, W.A.S.M., Wickramasinghe, P.C., Karunathilaka, C.D.M.P., & Sriyani, K.A. (2021). Awareness of breast cancer screening measures among female school teachers in Giriulla educational zone. Proceedings of the *Research Conference in Health Sciences 2021*, Faculty of Allied Health Sciences, University of Jayawardena, p 106.

2. Dilrukshi K.K.J., & De Silva, B. S. S. (2021). Knowledge and Practices of Foot Care among Patients with Diabetes Mellitus in the Asian Countries: A Systematic Review. Proceedings of the *4th Research Symposium of the Faculty of Allied Health Sciences*, University of Ruhuna, Galle, Sri Lanka. August 26, 2021. ISSN: 2659-2029.
3. Doole1, N. H. T, Shantha, D.M.S., Wijesekara, W. M. D. N. K., Abeywardhana, K. M. T. D, CDMP Karunathilaka & De Silva, B. S. S. (2021). An Exploration of Mothers' Experience of Children with Thalassaemia Depending on Iron Chelation Therapy in Thalassaemia Centre of Provincial General Hospital Badulla. *14th International Research Conference of General Sir John Kotelawala Defence University, Ratmalana*, Sri Lanka. 9th and – 10th of September 2021. P. 21. ISBN 978-624-5574-37-7.
4. Herath, C. J., Nuwansala, H. U. C., Rathnayake, R. G. L., Madushani, G., & Amarasinghe, H.P. K. (2021). The validity of the quality assessment tools used at the open university of Sri Lanka. Proceedings of the *34th Annual Conference of the Asian Association of Open Universities* (2021), 94.
5. Kumudumalee, R.M.A., Nishanthi, S.V., Lakmali, L.R.B., Thudugala, T.N.K., & Sriyani K.A. (2021). Learning challenges experienced by student nurses during clinical placements at operating theatre. *Proceeding of the Open University Research Sessions (OURS 2021)*. The Open University of Sri Lanka. p.1-4.
6. Pathirana, R. P. N. D. & De Silva, B. S. S. (2021). Reasons for Cessation of Exclusive Breastfeeding in the Asian Countries; A Systematic Review. Proceedings of *SLIIT International Conference on Advancements in Sciences and Humanities*, 3-4 December, Colombo, 543-554.
7. Perera A. N. M., Weerasinghe K. M. P. S., Kumari H. P. S., Perera O. S. M., Kodagoda A. S. K. & De Silva B. S. S. (2021). Family caregivers' experiences of people with Dementia at the elderly clinic, Colombo South Teaching Hospital, Sri Lanka. Proceedings of the *Research Conference in Health Sciences 2021 - Faculty of Allied Health Sciences*, University of Sri Jayewardenepura, Sri Lanka. 31st March 2021. P.151.
8. Sagarika, K. R. L. H., Charini, A. G. D., Rajapakshe, R. P.A., Priyadarshani, K. A. N., Hewabatage, P.N., & Priyanthi, W. N. (2021). Patient perception related to normal hospital diet consumption in a selected teaching hospital, Sri Lanka. *International Conference on Nursing*.

9. Senarathna K. M. C. S., Chandrasekara U. G. M. H., Helapalla K. M. S., Jayarathna G. V. A. P., Saumika M. A. R., & De Silva B. S. S. (2021). Psychological experiences of informal caregivers of patients with dementia. Proceedings of the *Research Conference in Health Sciences 2021* - Faculty of Allied Health Sciences, University of Sri Jayewardenepura, Sri Lanka. 31st March 2021. P.124.
10. Upasena, K.D.A.M., Kumara, U.M.S.S., Siriwardhana, K.A.S.M., Gunarathna, M.A.V.S., & Sriyani, K.A, (2021). Awareness and self-reported practices regarding leptospirosis among paddy farmers in Weligepola Medical Officer of Health (MOH) area in Ratnapura district of Sri Lanka. Proceedings of the *Research Conference in Health Sciences 2021*, Faculty of Allied Health Sciences, University of Jayawardena, p 193.
11. Weerabahu, R., Dharmasiri, U., Wickramasinghe, M., Sirinilame, S. & Sriyani, K.A. (2021). Nurses' perception towards the use of advanced medical devices in critical care units. Proceedings of the *4th Research Symposium of the Faculty of Allied Health Sciences*, University of Ruhuna, 26th August 202, p.17.
12. Wijekoon W.M.N.K, Jayathilake S.N.B.G.C.K , Maldeniya D.R.R., Dassanayake C.P.K.D, Kodagoda, A.S.K., De Silva B.S.S. (2021), Maternal experience with congenital surgical problems in neonates managed in a pediatric intensive care unit. Proceedings of *08th International Conference on Multidisciplinary Approaches*, Faculty of Postgraduate Studies, University of Jayawardena. 22nd and 23rd November 2021.
13. Wimalasooriya, P.B.A.D.K., Ranathunga, N.A.D.C.K.S., Bandara, W.M.D.B.,N. M. Patterson, & De Silva, B. S. S. (2021). The psychosocial factors related to post-partum depression among mothers in the post-partum period at the De Soyza Maternity Hospital for Women in Sri Lanka. *Proceedings of the Open University Research Sessions 2021(OURS 2021)*. 16th and – 17th of September 2021. P. 80. ISSN 2012-9912.
14. Yapa, H. E., Chambers, S., Purtell, L. & Bonner, A. (2021). Exploring the impact of chronic kidney disease at various grades along its trajectory. Renal Society of Australasia Annual Conference, Melbourne, Australia. June 18, 2021, p.30.

15. Yapa, H. E., Purtell, L., Chambers, S. & Bonner, A. (2021). Factors influencing health-related quality of life in people with chronic kidney disease. *Renal Society of Australasia Annual Conference, Melbourne, Australia*. June 18, 2021, p.29-30.

DEPARTMENT OF PHARMACY

Books/Book Chapters

None

Journal Publications

1. Gunasekara, W.A.S.K., Ranawaka, R.A.T.S., Chathuranga, G.L.D., Kankanamge, S.U., Balasuriya, A.(2021), Importance of following proper inhalation techniques and awareness regarding asthma among clinical patients. *Journal of complementary and alternative medical research*, 15(03), 1-13. DOI: 10.9734/JOCAMR/2021/v15i330266.
2. Chathuranga, G.L.D., Manathunga, H.S., Gunasekara, W.A.S.K., Jayasekara, K.B., Sanjeevani, A.(2021), Compliance and adherence to drug treatment on patients with chronic kidney disease in high prevalence areas of North central province, Sri Lanka. *International journal of Community Medicine and Public Health*, 8(7), 3231-3237. DOI: 10.18203/2394-6040.ijcmph20212571.
3. Wijayawardhana, N., Cooray, D., Jayasuriya, B., Uluwaduge, I., Meedin, F., & Arawwawala, M.(2021), Antimicrobial activity of a combination of three natural plant extracts and development of a herbal soap. *Pharmaceutical Sciences Asia*, 48(6), 523-534 DOI:10.29090/psa.2021.06.21.031.
4. Wickramasinghe, A.S.D., Kalansuriya, P., & Attanayake, A.P. (2021). Herbal medicines targeting the improved β cell functions and β cell regeneration for the management of diabetes mellitus. *Evidence-Based Complementary and Alternative Medicine*, <https://doi.org/10.1155/2021/2920530>

5. Welideniya DT, Jayathilaka AS, Acharige AD, Samanthi KAU, Wanninayake UK, Perera SS, Rajapaksha W, Fernando CC, Hewadikaram M, Buddhika J, Gunasekara P, Karunaratne V, Amaratunga GAJ, Gunasekera DS. Practical and scalable synthesis of beclomethasone dipropionate. *Steroids*. 2021 Dec 3:108948. doi: 10.1016/j.steroids.2021.108948. Epub ahead of print. PMID: 34871605.

Conference proceedings/abstracts/extended abstracts

1. Wickramasinghe, A.S.D., Attanayake, A.P., & Kalansuriya, P. (2021, October). Optimization of high fat diet fed streptozotocin induced Wistar rat model for screening antidiabetic agents. *International Conference on Applied and Pure Sciences*, Sri Lanka.
2. Wickramasinghe, A.S.D., Attanayake, A.P., Kalansuriya, P. (2021, March). Optimization of encapsulation efficiency of Coccinia grandis (L.) Voigt extract encapsulated nanoliposomes. *Proceedings of 18th Academic Sessions*, University of Ruhuna, p. 95.
3. Wickramasinghe, A.S.D., Attanayake, A.P., & Kalansuriya, P. (2021, July). Glucose-lowering activity of Coccinia grandis (L.) Voigt leaf extract encapsulated nanoliposomes in Wistar rats induced with diabetes mellitus. *College of Biochemists of Sri Lanka, 3rd Conference*, Sri Lanka.
4. Wickramasinghe, A.S.D., Attanayake, A.P., Kalansuriya, P. (2021, March). Effect of water: ethanol ratio on extraction yield, total polyphenol content and total flavonoid content of selected sri lankan medicinal plants. *Proceedings of 18th Academic Sessions*, University of Ruhuna, p. 97.
5. Samarakoon, D.D.N.W., Kumara, R.S., Buddhika, R.B.J., Jayasuriya, W.J.A.B.N. Pharmacognostical evaluation and antibacterial activity of the flowers of Impatiens balsamina. L (Kudalu). *Proceedings of the Annual Scientific Sessions 2021 of the Pharmaceutical Society of Sri Lanka*. p. 42.
6. L.R Sendanayake, L.R., Amarasiri H.A.D.B., Jayasundera A.C.A., Adassooriya N.M., (2021), November). Methotrexate-Loaded Halloysite Nanotubes as a Controlled Release Drug Delivery Formulation. *Proceedings of Peradeniya University International Research Sessions 2021*, Sri Lanka.

7. Nidangoda, H.A.D.W., Bandara, H.W.M.K.G.S., Premarathne, M.M.A.B., Wijenayake, U.S., Mamunuwa, A.M.V.G.N., Gunarathna, N.K.C., Eriyagama, A.M.S.D. Medication adherence and quality of life among patients with psoriasis in two Provinces in Sri Lanka. *Proceedings of the Annual Scientific Sessions 2021 of the Pharmaceutical Society of Sri Lanka*. p. 46.
8. Perera K.P.K, Priyamali P.D.Y.P, Priyangika K.A.I, Mannapperuma U. (2021) Patients' knowledge and adherence to warfarin therapy and its relationship to anticoagulation control at the warfarin clinic of the Colombo National Hospital. *Proceedings of the Annual Scientific Sessions 2021 of the Pharmaceutical Society of Sri Lanka*. p. 31.
9. Jayasiri, K.S., Silva, G.N., Vithanarachchi S.M., (2021), October). Plant-extract based synthesis of zinc oxide particles and evaluation of their antioxidant effect. *Proceedings of the Young scientists conference on Multidisciplinary Research 2021 of the National Institute of Fundamental studies*, Sri Lanka.

DEPARTMENT OF PSYCHOLOGY & COUNSELING

Books/Book Chapters

None

Journal Publications

1. Jayawardena, H. K. H., & Gamage, G. P. (2021). Exploring challenges in mental health service provisions for school-going adolescents in Sri Lanka. *School Psychology International*.
<https://doi.org/10.1177/01430343211043062>
2. Gamage, G.P. and Herath, H.M.C.J. (2021), "Mental health of undergraduate distance learners: a cross-sectional study", *Asian Association of Open Universities Journal*, Vol. ahead-of-print No. <https://doi.org/10.1108/AAOUJ-08-2021-0097>

3. Hapangama, A., de Silva, R., Williams, S. S., de Zoysa, P. T., Wickremasinghe, R.R.,Kuruppuarachchi, K. L., & Ravindran, A. (2021). Randomized controlled trial evaluating the effectiveness of cognitive behavioral group therapy (CBGT) compared to a waitlist control in the treatment of university students with social anxiety disorder. *Journal of the Postgraduate Institute of Medicine*, E1511-10.
4. Power, Alison, Michael Palapal Sy, Maggie Hutchings, Tracy Coleman, Alla El-Awaisi, Gatera Fiston Kitema, Jean Gallagher, Chulani Herath, Nichola McLarnon, Shobhana Nagraj, Veronica O'Carroll, Melissa Owens, Vikki Park, Emma Pope, Lisa-Christin Wetzlmair, P Jane Greaves, Elizabeth S Anderson, (2021), Learning in lockdown: exploring the impact of COVID-19 on interprofessional education, *British Journal of Midwifery*.
5. Gamage, G.P., Herath, H.M.Chulani.J., (2021), Mental health of undergraduate distance learners: a cross-sectional study, *Asian Association of Open Universities Journal*.

Conference proceedings/abstracts/extended abstracts

1. Chulani Herath, H.U.C. Nuwansala, R.G.L. Rathnayake, R.A.N. Dilsha, Gayeshi Madushani, H.P.K Amarasinghe (2021) Validity of the Quality Assessment Tools Used in the Open University of Sri Lanka, *International Conference of Asian Association of Open Universities*.
2. Chulani Herath & G.P. Gamage (2021) Depression, Anxiety, and Stress among Undergraduate students in the Open University of Sri Lanka: A Cross-sectional Study, *International Conference of Asian Association of Open Universities*.
3. Chulani Herath "Sri Lankan Undergraduate Healthcare Students' Perceptions of Interprofessional Learning: A Cross-Sectional Study" was presented in the context of the Session "Interprofessional Education' *3rd European Conference of Health Workforce Education & Research* on 7th and 8th January 2021.
4. Nilakarawasam, N., de Silva, R., Alwis, D., de Silva, R., Bulathwaththa, T., Dilsha, N., & Athapaththu, B. (2021). Developing a proactive motivational individual student support system at OUSL: A preliminary study for identification of influential factors. *34th Annual Conference of the Asian Association of Open Universities* (p. 64). Colombo : The Open University of Sri Lanka.

