

## List of Publications- Dr. Gayani Alwis, Department of Anatomy

### 1. Research Publications- International Peer Reviewed/ Indexed Journals (23 full papers)

1. Optimal Cutoff values for anthropometric adiposity measures of Sri Lankan adult women; Rathnayake N, **Gayani Alwis**, Janaka Lenora, Sarath Lekamwasam J. *Obes. Volume* 2020 Aug. Article ID 5748720. <https://doi.org/10.1155/2020/5748720>.
2. Development and Cross-Validation of Anthropometric Predictive Equations to Estimate Total Body Fat Percentage in Adult Women in Sri Lanka; Rathnayake N, **Alwis G**, Lenora J, Lekamwasam S.J. *Obes.* 2020 Jul 15;2020:2087346. <https://doi.org/10.1155/2020/2087346>.
3. Factors associated with one-year mortality of patients admitted with fragility hip fracture: a follow-up study in Southern Sri Lanka. Abeygunasekara T, Lekamwasam S, **Alwis G**, Lenora J. *Arch Osteoporos.* 2020 Jun 25;15(1):95. <https://doi.org/10.1007/s11657-020-00769-6>
4. Effect of health promoting lifestyle modification education on knowledge, attitude and quality of life of postmenopausal women, Rathnayake N, **Alwis G**, Lenora J, Lekamwasam S. *Biomed Res Int.* 2020 May 20. <https://doi.org/10.1155/2020/3572903>
5. Applicability of Health Promoting Lifestyle Profile-II for postmenopausal women in Sri Lanka; a validation study, Rathnayake N, **Alwis G**, Lenora J, Lekamwasam. *Health and Quality of Life Outcomes.* (2020) 18:122, <https://doi.org/10.1186/s12955-020-01371-7>
6. Impact of Health-Promoting Lifestyle Education Intervention on Health-Promoting Behaviors and Health Status of Postmenopausal Women: A Quasi-Experimental Study from Sri Lanka, Rathnayake N, **Alwis G**, Lenora J, Lekamwasam S. *Biomed Res Int.* 2019 Dec 16;2019:4060426. doi: 10.1155/2019/4060426.
7. Development & cross-validation of anthropometric predictive models to estimate the appendicular skeletal muscle mass in middle-aged women in Sri Lanka. Rathnayake N, **Alwis G**, Lenora J, Lekamwasam S. *Indian Journal of Medical Research.* 2019 Sep;150(3):297-305.
8. Prevalence and Associated Risk Factors of Falls among Rural Community-Dwelling Older People: A Cross-Sectional Study from Southern Sri Lanka. Gamage N, Rathnayake N, **Alwis G**. *Curr Gerontol Geriatr Res.* 2019 May 28;2019:2370796. doi: 10.1155/2019/2370796.
9. Prevalence and Severity of Menopausal Symptoms and the Quality of Life in Middle-aged Women: A Study from Sri Lanka. Rathnayake N, Lenora J, **Alwis G**,

- Lekamwasam S. Nurs Res Pract. 2019 Jul 1;2019:2081507. doi: 10.1155/2019/2081507.
10. Cutoff values determination for sarcopenia and prevalence in Middle-aged women: A study from Sri Lanka. N. Rathnayake, **G. Alwis**, J. Lenora, S. Lekamwasam. Ceylon Med J. 2019 Mar 31;64 (1):9-16
  11. Knowledge and Perception of Falls among Community Dwelling Elderly: A Study from Southern Sri Lanka. Gamage N, Rathnayake N, **Alwis G** Curr Gerontol Geriatr Res. 2018 May 29;2018:7653469. doi: 10.1155/2018/7653469.
  12. Concordance between appendicular skeletal muscle mass measured with DXA and estimated with mathematical models in middle-aged women. Rathnayake N, **Alwis G**, Lenora J, Lekamwasam S. J Physiol Anthropol. 2018 Jul 31;37 (1):19. doi:10.1186/s40101-018-0179-5.
  13. Cross cultural adaptation and analysis of psychometric properties of Sinhala version of Menopause Rating Scale. Rathnayake N, Lenora J, **Alwis G**, Lekamwasam S. Health Qual Life Outcomes. 2018 Aug 6; 16 (1):161. doi: 10.1186/s12955-018-0977-9.
  14. Gender specific age-related changes in bone density, muscle strength and functional performance in the elderly: a-10 year prospective population-based study. Daly RM, Rosengren BE, **Alwis G**, Ahlborg HG, Sernbo I, Karlsson MK. BMC Geriatr. 2013 Jul 6;13(1):71.
  15. Femoral neck bone strength estimated by hip structural analysis (HSA) in Swedish Caucasians aged 6-90 years. **Alwis G**, Karlsson C, Stenevi-Lundgren S, Rosengren BE, Karlsson MK. Calcif Tissue Int. 2012 Mar;90 (3):174-85.
  16. Normative calcaneal quantitative ultrasound data as an estimation of skeletal development in Swedish children and adolescents. **Alwis G**, Rosengren B, Nilsson JA, Stenevi-Lundgren S, Sundberg M, Sernbo I, Karlsson MK. Calcif Tissue Int. 2010 Dec; 87(6):493-506.
  17. Normative dual energy X-ray absorptiometry data in Swedish children and adolescents. **Alwis G**, Rosengren B, Stenevi-Lundgren S, D ppe H, Sernbo I, Karlsson MK. Acta Paediatr. 2010 Jul; 99 (7):1091-9.
  18. A 2-year school-based exercise program in pre-pubertal boys induces skeletal benefits in lumbar spine. **Gayani Alwis**, Christian Linden, Henrik G. Ahlborg, Magnus Dencker, Per Grdsell, Magnus K. Karlsson. Acta Paediatrica 2008 Jul; 97(11): 1564–1571
  19. A one -year exercise intervention program in pre-pubertal girls does not influence hip structure. **Gayani Alwis**, Christian Linden, Susanna Stenevi-Lundgren, Henrik G. Ahlborg, Jack Besjakov, Per Grdsell, Magnus K. Karlsson BMC Musculoskeletal Disorders 2008 Jan 24; 9(1): 9

20. A school-curriculum-based exercise intervention program for two years in pre-pubertal girls does not influence hip structure. **Gayani Alwis**, Christian Linden, Susanna Stenevi-Lundgren, Henrik G. Ahlborg, Magnus Dencker, Jack Besjakov, Per Gärdsell, Magnus K. Karlsson *Dynamic Medicine*. 2008 Apr 28; 7(1): 8.
21. Exercise, bone mass and bone size in prepubertal boys: one-year data from the pediatric osteoporosis prevention study. C. Lindén, **G. Alwis**, H. Ahlborg, P. Gardsell, O. Valdimarsson, S. Stenevi-Lundgren, J. Besjakov, M. K. Karlsson. *Scandinavian Journal of Medicine Science and Sports*. 2007 Aug; 17(4): 340-347
22. Bone mineral accrual and gain in skeletal width in pre-pubertal school children is independent of the mode of school transportation – one-year data from the prospective observational pediatric osteoporosis prevention (POP) study. **Gayani Alwis**, Christian Linden, Magnus Dencker, Susanna Stenevi-Lundgren, Per Gärdsell, Magnus K. Karlsson *BMC Musculoskeletal Disorders* 2007 Jul 11; 8: 66
23. Risk factors of childhood asthma: a Sri Lankan study, Karunasekara KAW, Jayasinghe JA, **Alwis LWGR**. *Journal of Tropical Pediatrics* 2001 Jun; 47(3): 142-2

## 2. Abstracts presented in International scientific Conference both oral and poster presentations (21 abstracts):

1. Prior Fracture Physical Dependence, Co-Morbidity and One-Year Survival of HIP Fracture Patients; Data from A HIP Fracture Registry in Sri Lanka Thilina Abeygunasekara, Sarath Lekamwasam, Janaka Lenora, **Gayani Alwis**, December 2019, Age and Ageing 48(Supplement\_4):iv13-iv17DOI: 10.1093/ageing/afaa011(abstract165), 1st world Congress on Falls and Postural stability, Kuala Lumpur, Malaysia December 4-7, 2019
2. Falls among middle aged community dwelling women in a rural territory of Sri Lanka. Nirmala Rathnayake, Sarath Lekamwasam, **Gayani Alwis**, Janaka Lenora. Age and Aging 2019; 48 (Supplement 4): iv 18-v27 (Abstract 107), 1st world Congress on Falls and Postural stability, Kuala Lumpur, Malaysia December 4-7, 2019
3. Factors associated with hand grip strength of a group of pre and post-menopausal women from Sri Lanka. Nirmala Rathnayake, Sarath Lekamwasam, **Gayani Alwis**, Janaka Lenora. Age and Aging 2019; 48 Supplement 4 iv 18-v27 (Abstract 108), 1<sup>st</sup> world Congress on Falls and Postural stability, Kuala Lumpur, Malaysia December 4-7, 2019
4. Associations of Anthropometry and Body Composition on Femoral Neck Geometry in Swedish Adolescents, **Alwis G**, Lenora J, Karlsson MK, oral presentation (BT 04) at 25th ISCD, Kaula Lumpur, Malaysia, 22<sup>nd</sup> March 2019.
5. Associations of Anthropometry and Body Composition on Femoral Neck Geometry in Pre- pubertal Girls, **Alwis G**, Lenora J, Karlsson MK, poster presentation (MM 02) at 25th ISCD, Kaula Lumpur, Malaysia, 20<sup>th</sup> -23<sup>rd</sup> March 2019.

6. Associations of Anthropometry and Body Composition on Femoral Neck Geometry in Pre-pubertal Boys, **Alwis G**, Lenora J, Karlsson MK, poster presentation (MM 03) at 25th ISCD, Kaula Lumpur, Malaysia, 20<sup>th</sup> -23<sup>rd</sup> March 2019.
7. Impact of Menopause on Measures of Sarcopenia in Middle-Aged Sri Lankan Women; a Cross-Sectional Study, Rathnayake N, **Alwis G**, Lenora J, Lekamwasam S, poster presentation (CO 011) at 25th ISCD, Kaula Lumpur, Malaysia, 20<sup>th</sup> -23<sup>rd</sup> March 2019.
8. Fragility hip fracture incidence in Sri Lanka, Abeygunasekara T, Lekamwasam S, Lenora J, **Alwis G**, poster presentation (RE 05) at 25<sup>th</sup> ISCD, Kaula Lumpur, Malaysia, 20<sup>th</sup> - 23<sup>rd</sup> March 2019.
9. Delayed peak bone mineral density in women in Sri Lanka; A cross sectional study, Rathnayake N, **Alwis G**, Lenora J, Lekamwasam S, poster presentation (RE 04) at 25th ISCD, Kaula Lumpur, Malaysia, 20<sup>th</sup>- 23<sup>rd</sup> March 2019.
10. Comparison of association between appendicular skeletal muscle mass and bone mineral densities at different sites of pre and postmenopausal women, N Rathnayake, J Lenora, **G Alwis**, S Lekamwasam, poster presentation (P753), at WCO-IOF-ESCEO- 2017 in Florance Italy, March 2017, Osteoporos Int, Vol 28 Supplement 1,
11. Associations of measures of sarcopenia among middle aged women with focus on their age and menopausal status. N Rathnayake, **G Alwis**, J Lenora, S Lekamwasam. poster presentation (P739), at WCO-IOF-ESCEO- 2017 in Florance Italy, March 2017, Osteoporos Int, Vol 28 Supplement 1,P 739, Osteoporos Int, Vol 28 Supplement 1,
12. Concordance between measured and estimated Appendicular Skeletal Muscle Mass with Models developed in the West and Asia: What is the best for Sri Lankan adult women? N Rathnayake, **G Alwis**, J Lenora, S Lekamwasam, poster presentation (P735), at WCO-IOF-ESCEO- 2017 in Florance Italy, March 2017, Osteoporos Int, Vol 28 Supplement 1
13. Development and cross validation of two predictive models to estimate the Appendicular Skeletal Muscle Mass in adult women in Sri Lanka N Rathnayake, **G Alwis**, J Lenora, S Lekamwasam. poster presentation (P740), at WCO-IOF-ESCEO- 2017 in Florance Italy, March 2017, Osteoporos Int, Vol 28 Supplement 1,
14. Do anthropometric indices predict the Bone Mineral Density of pre and postmenopausal women? N Rathnayake, **G Alwis**, J Lenora, S Lekamwasam. poster presentation (P742), at WCO-IOF-ESCEO- 2017 Florance Italy, March 2017, Osteoporos Int, Vol 28 Supplement 1,
15. Associations between appendicular skeletal muscle mass and anthropometric measures among middle-aged women : A study from Sri Lanka. N Rathnayake, S Lekamwasam, **G Alwis**, J Lenora. P 112, Osteoporos Int (2016) 27 (Suppl 3):S709–S787 at 6th Asia Pacific Scientific Meeting of International Osteoporosis Foundation held at Singapore.
16. Age related differences in lean mass and physical functions among middle-aged women in Southern Sri Lanka: A study from Sri Lanka. N Rathnayake, S Lekamwasam, **G Alwis**, J Lenora. P113, Osteoporos Int (2016) 27 (Suppl 3):S709–

- S787 at 6th Asia Pacific Scientific Meeting of International Osteoporosis Foundation held at Singapore.
17. Age-related trends in total and regional bone mineral densities of middle-aged women: A study from Sri Lanka". N Rathnayake, S Lekamwasam, **G Alwis**, J Lenora. P114, Osteoporos Int (2016) 27 (Suppl 3):S709–S787 at 6th Asia Pacific Scientific Meeting of International Osteoporosis Foundation held at Singapore.
  18. Hip fracture rates in Asia; A systematic review T U Abeygunasekara, S Lekamwasam, J Lenora, **G Alwis** P160, Osteoporos Int (2016) 27 (Suppl 3):S709–S787 at 6th Asia Pacific Scientific Meeting of International Osteoporosis Foundation held at Singapore.
  19. A Three Year School-Curriculum-Based Exercise Program in Prepubertal Children Increases Bone Mineral Accrual and Bone Size but Do Not Influence Femoral Neck Structure Lofgren B, **Alwis G**, Lindén C, Ahlborg H, Dencker M, Gardsell P, Karlsson M. Oral Presentation at 29th Annual meeting of American Society of Bone and Mineral Research. (Journal of Bone and Mineral Research 2008; 23(1): 31.
  20. Bone mineral accrual and gain in skeletal width in prepubertal school children is independent of the mode of transportation – one year data from the POP study. **Alwis G**, Linden C, Dencker M, Stenevi-Lundgren S, Gardsell P, Karlsson M. Poster presentation at 35th European symposium on calcified tissues (ECTS), 25-28th of May 2008, Barcelona, Spain. (Calcified Tissue International, Vol 82, Supplement I).
  21. A Two-Year Moderate Intense Exercise Intervention Program in Pre-pubertal Children Influence Bone Mineral Accrual but Not Hip Structure: Two-Year Prospective Data from the Pediatric Osteoporosis Prevention (POP) Study. **Alwis G**, Lindén C, Ahlborg H, Gardsell P, Stenevi-Lundgren S, Besjakov J, Karlsson M) Poster presentation at 34th European symposium on calcified tissues (ECTS, 5-7th of May 2007, Copenhagen, Denmark. (Calcified Tissue International, Vol 80, (Suppl-1).

**Abstracts Presented in National and Local Scientific Conferences both oral and poster presentations: (37 abstracts)**

22. Development and Cross-validation of Anthropometric Predictive Equations to Estimate Total Body Fat Percentage in Adult Women in Sri Lanka. N. Rathnayake, **G. Alwis**, J Lenora, S Lekamwasam, 17<sup>th</sup> Academic Sessions-2020, University of Ruhuna page 64, (oral) 4<sup>th</sup> March 2020.
23. Relationship between Pattern of Physical activity and Bone mineral Density, Bone mineral Density and Bone Mineral Content in a group of postmenopausal women in Sri Lanka, N. Rathnayake, **G. Alwis**, J Lenora, S Lekamwasam, 17<sup>th</sup> Academic Sessions-2020, University of Ruhuna page 65, (poster) 5<sup>th</sup> March 2020.
24. Optimal cut off values for Anthropometric Adiposity Measures of Sri Lankan Adult women, Rathayake N, **G Alwis**, J Lenora, S Lekamwasam, 2nd research symposium, Faculty of Allied Health Sciences (oral) (RuFARS 2019) page 51
25. Impact of health promoting lifestyle education intervention on cardiovascular disease risk indicators in postmenopausal women, N Rathnayake, **G Alwis**, J Lenora and S Lekamwasam, oral presentation at KDUiRC- 12<sup>th</sup> INTERNATIONAL RESEARCH

- CONFERENCE, Sri John Kothalawala Defense University, 11th-12<sup>th</sup> September 2019, page 237
26. Association between bone mineral density and body composition; a study involving pre and postmenopausal women, Rathayake N, **G Alwis**, J Lenora, S Lekamwasam, RJM, Ruhuna Journal of Medicine, August 2019; vol 7: No1, page 75.
  27. Knowledge, practices and associated factors on physical activity among school children in Negombo area, Judy Ferando and **Gayani Alwis**, oral presentation (OP13) at 1<sup>st</sup> South East Asia regional group meeting of the International Epidemiological Association/24<sup>th</sup> Annual Academic Sessions of the College of Community Physicians of Sri Lanka 2019, 19<sup>th</sup>-21<sup>st</sup> September 2019, page 17.
  28. Association between bone mineral density and cardiovascular disease risk in pre and postmenopausal women, Rathnayake N, **Alwis G**, Lenora J and Lekamwasam S, oral presentation (OP 17) at 132<sup>nd</sup> Anniversary International Medical Congress of Sri Lanka Medical Association, 24<sup>th</sup>-27<sup>th</sup> July 2019, page 17
  29. Prevalence of generalized and central obesity in a group of pre and postmenopausal women in Galle, Nirmala Rathnayake, **Gayani Alwis**, Janaka Lenora and Sarath Lekamwasam, oral presentation at 16<sup>th</sup> Annual academic sessions of University of Ruhuna, Sri Lanka, (2019)
  30. Validation of Sinhala version of health promoting lifestyle profile-II for postmenopausal women in Sri Lanka, N Rathnayake, **G Alwis**, J Lenora, N Priyadarshani, H Dias, S Lekamwasam, (Oral presentation) at Annual Academic Sessions 2018 Physiological Society of Sri Lanka, OP 4, page 35, 16-17 November 2018
  31. Impact of physical activity pattern on quality of life of pre and postmenopausal women; a cross sectional study, Rathnayake N, **Alwis G**, Lenora J, Lekamwasam S. (Oral presentation) at 6<sup>th</sup> Faculty of Medicine Academic Sessions, 15-16 November 2018, Ruhuna Journal of Medicine, vol 06, OP 5, page 30,
  32. Impact of Health Promoting Lifestyle Modification Education Intervention on Anthropometric Adiposity Measures and Physical Performance of postmenopausal women Rathnayake N, **Alwis G**, Lenora J, Lekamwasam S. (Oral presentation), at proceedings of 1<sup>st</sup> Research Symposium of Faculty of Allied Health Sciences, University of Ruhuna, Sri Lanka, OP1, page 2, 8<sup>th</sup> November 2018
  33. Selection of Traditional Bone Setting Treatments Following Fractures among Patients Attending Ayurvedic Treatments Centers in Akuressa area, Chandrajeewa A.V.P, Rathnayake N, **Alwis G**. (Poster presentation) at proceedings of 1st Research Symposium of Faculty of Allied Health Sciences, University of Ruhuna, Sri Lanka, PP22, page 56, 8th November 2018
  34. Impact of health promoting life style modification education intervention on health related quality of life of postmenopausal women Nirmala Rathnayake, **Gayani Alwis**, Janaka Lenora and Sarath Lekamwasam (Oral presentation) at 77<sup>th</sup> Annual Academic Sessions of the Galle Medical Association, GMJ, vol 23, sup 1, page 2, October 2018
  35. Impact of health promoting life style modification education intervention on knowledge, attitude and health promoting behaviors of postmenopausal women Nirmala Rathnayake, **Gayani Alwis**, J Lenora and S Lekamwasam (Poster

- presentation) at 77th Annual Academic Sessions of the Galle Medical Association, GMJ, vol 23, sup 1, page 32, October 2018
36. Cross cultural adaptation and psychometric properties analysis of Sinhala version of Menopause Specific Quality of Life Questionnaire – A validation study” N Rathnayake, J Lenora, **G Alwis**, S Lekamwasam. (Oral presentation) at 4th Global public health conference held in Sri Lanka (2018)
  37. Impact of life style modification education intervention on menopausal symptoms and menopause specific quality of life of postmenopausal women N Rathnayake, J Lenora, **G Alwis**, S Lekamwasam. Oral presentation at 1st Nursing congress of University of Peradeniya, Sri Lanka (2018)
  38. Prevalence of sarcopenia in a group of middle aged women from Galle, Sri Lanka” N Rathnayake, **G Alwis**, J Lenora, S Lekamwasam Poster presentation at 15<sup>th</sup> Annual academic sessions of University of Ruhuna, Sri Lanka, (2018)
  39. Impact of nutrients on measures of sarcopenia among pre and postmenopausal women in Galle, Sri Lanka, N Rathnayake, **G Alwis**, J Lenora, S Lekamwasam Oral presentation at Annual academic sessions of Nutrition Society of Sri Lanka, (2018)
  40. Normative reference values for measures of sarcopenia for Sri Lankan women” N Rathnayake, **G Alwis**, J Lenora, S Lekamwasam Oral presentation at International Research Conference of Peradeniya University (iPURSE), Sri Lanka (2017)
  41. Menopause Rating Scale-Cross cultural adaptation and psychometric validation of Sinhalese version N Rathnayake, J Lenora, **G Alwis**, S Lekamwasam Oral presentation at International Research Conference of Peradeniya University (iPURSE), Sri Lanka (2017)
  42. Prevalence and associated social-reproductive determinants of menopausal symptoms among pre and postmenopausal women in Galle, Sri Lanka” N Rathnayake, J Lenora, **G Alwis**, S Lekamwasam Oral presentation at Annual academic sessions of Open University of Sri Lanka, (2018)
  43. Knowledge and Awareness of Osteoporosis among Post- menopausal in-door female patients in Teaching Hospital, Karapitiya, Ruvini Chandrika, **Gayani Alwis**, poster presentation at 4th International Conference on Multidisciplinary Approaches, 2017, organized by Faculty of Graduate studies, University of Sri Jayewardenepura, Sri Lanka conference proceedings, September 2017, page 71
  44. Impact of socio-demographic status on quality of life of selected group of pre and postmenopausal women in Galle, Sri Lanka N. Rathnayake, J. Lenora, **G. Alwis**, S. Lekamwasam, Oral presentation with abstract publication at International Research Conference, Kotalawela Defense University, Rathmalana, Sri Lanka. August 2017.
  45. Influence of physical activity pattern on non-communicable diseases among adults in Beruwala MOH area, Sri Lanka. BDD Lakmali, **G Alwis**, PN Kariyawasam, poster presentation with abstract publication at 10<sup>th</sup> International Research Conference, Kotalawela Defense University, Rathmalana, Sri Lanka, August 2017.
  46. Prevalence and related risk factors of recurrent falls among ambulatory community dwelling elderly in Galle district, Sri Lanka N Pryadarshani, **G, Alwis**, N Rathnayake,

- Oral presentation with abstract publication at 10<sup>th</sup> International Research Conference, Kotalawela Defense University, Rathmalana, Sri Lanka August 2017.
47. Impact of menopausal symptoms on quality of life of premenopausal and postmenopausal women N Rathnayake, S Lekamwasam, **G Alwis**, J Lenora Poster presentation at Annual Academic Sessions of Physiological Society of Sri Lanka (2016).
  48. Association of appendicular skeletal muscle mass with performance-based and self-reported physical functions among middle aged healthy women. N Rathnayake, S Lekamwasam, **G Alwis**, J Lenora Oral presentation with abstract publication at Annual Academic Sessions of Physiological Society of Sri Lanka (2016).
  49. Perception on Falls and Related fractures among community dwelling elderly in Nagoda Divisional Secretariat area UGN Priyadarshani, **G Alwis**, N Rathnayake. Oral Presentation at 3rd International Conference on Multidisciplinary Approaches, held by Faculty of Graduate studies, University of Sri Jayewardenepura, Sri Lanka (2016, October)
  50. Prevalence and Determinant of Falls among elderly UGN Priyadarshani, **G Alwis**, N Rathnayake, Oral presentation at International Research Conference, Kotalawela Defense University, Rathmalana, Sri Lanka (2016).
  51. The influence of menopausal status on performance based measures of physical functions in middle aged women. N Rathnayake, S Lekamwasam, **G Alwis**, J Lenora, Oral presentation at International Research Conference, Kotalawela Defense University, Rathmalana, Sri Lanka (2016).
  52. Prevalence of Obesity among healthy pre and postmenopausal women N Rathnayake, S Lekamwasam, **G Alwis**, J Lenora, Oral presentation at International Research Conference, Kotalawela Defense University, Rathmalana, Sri Lanka (2016)
  53. Estimation of appendicular skeletal muscle mass with anthropometric measurements in healthy women N Rathnayake, S Lekamwasam, **G Alwis**, J Lenora. Poster presentation at 129th Anniversary International Medical Congress, Sri Lanka Medical Association (2016)
  54. Knowledge and attitudes on falls and fractures among elderly Priyadarshani UGN, **Alwis G**, Rathnayake RHMPN Poster presentation at GMA Annual Scientific Sessions GMJ, October 2015, Vol 20 (2) page 86
  55. Prevalence of obesity, overweight and thinness and its correlates among school children in an urban area of southern Sri Lanka. MHAD de Silva, **Gayani Alwis**, Janaka Lenora, SR Vithana, Thilina Abeygunasekara Poster presentation at Proceedings of the Sri Lanka College of Paediatricians 17th Annual Scientific Congress. July 2014 Battaramulla, Vol 4, No 3, page 91.
  56. Anatomical evaluation of the common carotid artery bifurcation and the branching pattern- A preliminary study Samarawickrama M.B, **Alwis G**, Nanayakkara P.G.C.L. Poster presentation at 10th Academic Sessions, University of Ruhuna, Matara, Sri Lanka. March 2013. Page 96

57. Effect of anthropometry on lung function in healthy adult women Lenora J, Lekamwasam S, **Alwis G**. Poster presentation at 10th Academic Sessions, University of Ruhuna, Matara, Sri Lanka. March 2013. Page 97
58. Effect of soya supplementation on malnourished children (JAYAWARDENE, DRKC; **ALWIS LWGR**; RUPALATHA, KN), Proceedings of the Sri Lanka college of paediatricians Annual Scientific Congress, SLMA:Colombo July 1999, 1(3), 48.
59. Risk factors in childhood asthma: A case control study (KARUNASEKERA, KAW; **ALWIS, LWGR**; JAYASINGHE, JAC), Sri Lanka Paediatricians second Annual Scientific Congress Academic Programme, SLMA: Colombo July 1998, 63-64.
60. Neonatal septicaemia: the incidence, symptomatology and microbiology KAW Karunasekera, D Pathirana, **LWGR Alwis** Oral Presentation Abstract (OP 35), 111th Anniversary Academic Sessions, Sri Lanka Medical Association, 25-28 March 1998 Colombo, Sri Lanka.

### 3. Review and feature articles (06)

1. Bone strength beyond bone mass, **Alwis G**, 2020. Galle Medical Journal, 25(2), pp.19–29. DOI: <http://doi.org/10.4038/gmj.v25i2.8020>
2. Hip Geometry on Femoral Neck Bone Strength, **Gayani Alwis**, Anatomy Journal Sri Lanka (AJSL) vol 3, 2020
3. Physical Activity for Healthy Bones, **Gayani Alwis**, PSSSL Newsletter August 2018, Volume 14, Issue 1, Page 11-13
4. Physical activity, bone mass and bone structure in pre-pubertal children. Review article, **Alwis G**, The Official Journal of The Faculty of Medicine, University of Ruhuna, Sri Lanka, RJM, July 2013, volume 1, Number 1, page 34-43
5. Fysisk aktivitet hos barn – ett vaccin mot fraktur? Magnus Karlsson & **Gayani Alwis**, Swedish Sports Magazine. 2009 :18 (04), pp. 38-40
6. Determinants of peak Bone Mass and Bone structure During Growth. **Gayani Alwis** & MK Karlsson, Sport research centre, Box 5266, 11486 Stockholm, 2009 June, No 31, page 91

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