

E. Publications to date (from 2015):

1. Liaw ST, Zhou R, Ansari S, Gao J. Digital Health Profile and Maturity Assessment Toolkit: co-creation in the Pacific Islands. *JAMIA* 29th November 2020.
<https://doi.org/10.1093/jamia/ocaa255>
2. Liaw ST, Georgiou A, Marin H. Evaluation of digital health and information technology in primary care. *Int J Med Informatics* 2020. DOI: <https://doi.org/10.1016/j.ijmedinf.2020.104285>.
3. Godinho MA, Jonnagaddala J, Gudi N, Islam R, Narasimhan P, Liaw ST. mHealth for Integrated People-Centred Health Services in the Western Pacific: A Systematic Review. *Int J Med Informatics* 2020; 142: 104259. DOI: <https://doi.org/10.1016/j.ijmedinf.2020.104259>.
4. Reps JM, Kim C, Williams RD, et al. Can we trust the prediction model? Demonstrating the importance of external validation by investigating the COVID-19 Vulnerability (C-19) Index across an international network of observational healthcare datasets. *medRxiv* 2020: 2020.2006.2015.20130328. DOI: 10.1101/2020.06.15.20130328.
5. Williams RD, Markus AF, et al. Seek COVER: Development and validation of a personalized risk calculator for COVID-19 outcomes in an international network. *medRxiv* 2020: 2020.2005.2026.20112649. DOI: 10.1101/2020.05.26.20112649.
6. Jonnagaddala J, Guo GN, Batongbacal S, Marcelo A, Liaw ST. Adoption of enterprise architecture for healthcare in AeHIN member countries. *BMJ Health & Care Informatics* 2020; 27: e100136. DOI: 10.1136/bmjhci-2020-100136
7. Yao J, Zhu X, Jonnagaddala J, Hawkins N, Huang J. Whole slide images based cancer survival prediction using attention guided deep multiple instance learning networks. *Medical Image Analysis*. 2020 Oct 1;65:101789.
8. Raju A, Yao J, Haq MM, Jonnagaddala J, Huang J. Graph Attention Multi-instance Learning for Accurate Colorectal Cancer Staging. In *International Conference on Medical Image Computing and Computer-Assisted Intervention* 2020 Oct 4 (pp. 529-539). Springer, Cham.
9. Dai HJ, Wang FD, Chen CW, Su CH, Wu CS, Jonnagaddala J. Cohort selection for clinical trials using multiple instance learning. *Journal of Biomedical Informatics*. 2020 May 1:103438.
10. Liaw ST, Liyanage H, Kuziemsky C, Terry AL, Schreiber R, Jonnagaddala J, de Lusignan S. Ethical Use of Electronic Health Record Data and Artificial Intelligence: Recommendations of the Primary Care Informatics Working Group of the International Medical Informatics Association. *Yearbook of Medical Informatics*: Apr 2020
11. Godinho MA, Ashraf MM, Narasimhan P, Liaw ST. Community Health Alliances as social enterprises that digitally engage citizens and integrate services: a case study in Southwestern Sydney (Protocol). *Digital Health* 2020; 6: 1-8
12. Godinho MA, Borda A, Kostkova P, Molnar A, Liaw ST. 'Serious Games' for unboxing Global Digital Health policymaking. *BMJ Stel* 2020; 0:1-2. doi:10.1136/bmjstel-2020-000606
13. Guo GN, Jonnagaddala J, Farshid S, Huser V, Reich C, & Liaw ST. Comparison of the cohort selection performance of Australian Medicines Terminology to Anatomical Therapeutic Chemical mappings. *JAMIA* 2019. doi:10.1093/jamia/ocz143
14. Sáez C, Liaw ST, Kimura E, Coorevits P, García-Gómez, JM. Guest editorial: Special issue in biomedical data quality assessment methods. *Computer Methods and Programs in Biomedicine* June 2019. DOI: 10.1016/j.cmpb.2019.06.013
15. Liaw ST, Guo G, Yeoh S, Jonnagaddala J. Opioids in general practice: use or abuse. *Aust J Primary Health*. 2019; 25: XXXII-XXXIII.
16. Dai HJ, Jonnagaddala J. Assessing the severity of positive valence symptoms in initial psychiatric evaluation records: Should we use convolutional neural networks?. *PloS one*. 2018 Oct 16;13(10):e0204493.
17. Chen A, Jonnagaddala J, Nekkantti C, Liaw ST. Generation of surrogates for de-identification of electronic health records. Paper presentation. *Medinfo* 2019: Health and Wellbeing e-Networks for All. L. Ohno-Machado & B. Séroussi (Eds) © 2019 International Medical Informatics Association (IMIA) and IOS Press. doi:10.3233/SHT190185

18. Vo K, Jonnagaddala J and Liaw ST. Statistical supervised meta-ensemble algorithm for medical record linkage. *J Biomed Inform. (online publication)*. 2019. 103220
<https://doi.org/10.1016/j.jbi.2019.103220>
19. Liyanage H, Liaw ST, Jonnagaddala J, et al. Artificial Intelligence in Primary Health Care: Perceptions, Issues, and Challenges. *Yearbook of Medical Informatics* 2019.
<http://dx.doi.org/10.1055/s-0039-1677901>
20. Ashraf MM; Razzaque M, Liaw ST, Ray P, Hassan R. Social Business as an entrepreneurship model in emerging economy: systematic review and case study. *Management Decision* 2018, doi:10.1108/MD-04-2017-0343.
21. Liyanage H; Liaw ST; Jonnagaddala J; Hinton W; De Lusignan S, 2018, 'Common Data Models (CDMs) to Enhance International Big Data Analytics: A Diabetes Use Case to Compare Three CDMs', *Studies in Health Technology and Informatics*, vol. 255, pp. 60 - 64, DOI <http://dx.doi.org/10.3233/978-1-61499-921-8-60>.
22. Parker SM; Stocks N; Nutbeam D; Thomas L; Denney-Wilson E; Zwar N; Karnon J; Lloyd J; Noakes M; Liaw ST, 2018, 'Preventing chronic disease in patients with low health literacy using eHealth and teamwork in primary healthcare: Protocol for a cluster randomised controlled trial', *BMJ Open*, vol. 8; DOI <http://dx.doi.org/10.1136/bmjopen-2018-023239>.
23. Liyanage H; Liaw ST; Konstantara E; Mold F; Schreiber R; Kuziemyky C; Terry AL; de Lusignan S. 'Benefit-risk of Patients' Online Access to their Medical Records: Consensus Exercise of an International Expert Group', *Yearbook of Medical Informatics* 2018, vol. 27, pp. 156–162; DOI <http://dx.doi.org/10.1055/s-0038-1641202>.
24. Farshid S, Jonnagaddala J, Guo GN, Wu M, & Liaw ST. (2018). Harmonising primary care data using international standard vocabularies for observational research. Paper presented at the HISA Health Informatics Conference 2018 (HIC), Sydney, Australia.
doi:<http://doi.org/10.5281/zenodo.2538863>.
25. Argha A, Savkin A, Liaw ST, Celler BG. Analyzing the effect of seasonal variation on clinical outcome of an at-home telemonitoring trial. *JMIR* 2018; 6 (1): e16.
doi:[10.2196/medinform.9680](https://doi.org/10.2196/medinform.9680).
26. Essén, A, Scandurra I, Gerrits R, Humphrey G, Johansen MA, Kiergegaard P, Koskinen J, Liaw ST, Odeh S, Ross P, Ancker JS. Patient Access to Electronic Health Records: Differences across Ten Countries." *Health Policy and Technology* 2017 (2017/11/21).
<http://dx.doi.org/https://doi.org/10.1016/j.hlpt.2017.11.003>.
27. Liaw ST, Marcelo A, Narasimhan P, Ashraf MM and Ray P. Global eHealth, Social Business and Citizen Engagement: A Natural Convergence? In: A.V. Gundlapalli et al. (Eds.). *MEDINFO 2017: Precision Healthcare through Informatics*. Hangzhou, China: International Medical Informatics Association (IMIA) and IOS Press, 2017, p. 773-777.
28. Khatun F, Heywood AE, Hanifi SMA, Rahman MS, Ray PK, Liaw ST, et al. Gender differentials in readiness and use of mHealth services in a rural area of Bangladesh. *BMC Health Services Research*. 2017;17(573):11. <https://doi.org/10.1186/s12913-017-2523-6>.
29. Liaw ST, Kearns R, Taggart J, Frank O, Lane R, Tam M, et al. The Informatics Capability Maturity of Integrated Primary Care Centres in Australia. *Int J Med Informatics*. 2017. DOI: 10.1016/j.ijmedinf.2017.06.002.
30. Liaw ST, Ashraf M, Ray P. Global eHealth, Social Business and Citizen Engagement. 2017. In: Informatics for Health: Connected Citizen-Led Wellness and Population Health. *Studies in Health Technology and Informatics* 2017; pp: 283-7.
31. Liaw ST, de Lusignan S. An integrated health neighbourhood framework to optimise the use of EHR data. *J Innov Health Inform*. 2016; 23(3): 547-554.
32. Kahn, Michael G.; Callahan, Tiffany J.; Barnard, Juliana; Bauck, Alan E.; Brown, Jeff; Davidson, Bruce N.; Estiri, Hossein; Goerg, Carsten; Holve, Erin; Johnson, Steven G.; Liaw, Siaw-Teng; Hamilton-Lopez, Marianne; Meeker, Daniella; Ong, Toan C.; Ryan, Patrick; Shang, Ning; Weiskopf, Nicole G.; Weng, Chunhua; Zozus, Meredith N.; and Schilling, Lisa (2016) "A

Harmonized Data Quality Assessment Terminology and Framework for the Secondary Use of Electronic Health Record Data," *eGEMs (Generating Evidence & Methods to improve patient outcomes)*: Vol. 4: Issue. 1, Article 18.

DOI: <http://dx.doi.org/10.13063/2327-9214.1244>. Available at: <http://repository.edm-forum.org/egems/vol4/iss1/18>.

33. Chan T, Di Iorio CT, Kuziemy C, Liaw ST, de Lusignan S, Lo Russo D. The UK National Data Guardian for health and care's review of data security, consent and opt-outs: leadership in balancing public health with rights to privacy? *J Innov Health Inform*. 2016; 23(3): 627–632.
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35. Lewis J, Ray P, Liaw ST. Recent Worldwide Developments in eHealth and mHealth to more effectively manage Cancer and other Chronic Diseases – A Systematic Review. *YearBook Med Informatics* 2016; pp 93-108. DOI: 10.15265/IY-2016-020.
36. Khatun F, Heywood AE, Ray PK, Bhuiya A, Liaw ST. Community readiness for adopting mHealth in rural Bangladesh: A qualitative exploration. *Int J Med Informatics* 2016; 93:49-56.
37. Liaw ST, Powell-Davies G, Pearce C, Britt H, McGlynn L, Harris MF. Optimising the use of observational EHR data: current issues, evolving opportunities, strategies and scope for collaboration. *Aust Fam Physician* 2016; 45(3):153-156.
38. Lau A, Arguel A, Dennis S, Liaw ST, Coiera E. "Why didn't it work?" Lessons from a randomised controlled trial of an internet intervention for adults with asthma. *J Med Internet Research* 2015-12-15; doi:[10.2196/jmir.4734](https://doi.org/10.2196/jmir.4734).
39. Magrabi F, Liaw ST, Arachi D, Runciman W, Coiera E, Kidd MR. Identifying patient safety problems associated with information technology in general practice: an analysis of incident reports. *BMJ Qual & Safety* 2015 [06 Nov]. doi:10.1136/bmjqs.2015.004323.
40. Taggart J, Liaw ST, Yu H. Structured data quality reports to improve EHR data quality. *Int J Med Informatics* 2015 (Oct 09); 84:1094-1098. doi:[10.1016/j.ijmedinf.2015.09.008](https://doi.org/10.1016/j.ijmedinf.2015.09.008).
41. Lewis J, Liaw ST, Ray P. Applying "big data" and business intelligence insights to improving clinical care for cancer. *2015 IEEE International Symposium on Technology and Society (ISTAS)*; 2015 11-12 Nov. DOI: [10.1109/ISTAS.2015.7439399](https://doi.org/10.1109/ISTAS.2015.7439399).
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44. Jonnagaddala, J, Liaw, ST, & Ray, P. Impact of data quality assessment on development of clinical predictive models. *Studies in health technology and informatics* 2015, 216, 1069-1069. <http://dx.doi.org/10.3233/978-1-61499-564-7-1069>.
45. Khatun F, Heywood A, Bhuiya A, Ray P, Liaw ST. Determinants of readiness to adopt mHealth in a rural community of Bangladesh. *Int J Med Informatics* 2015, 84 (10): 847-856. DOI: <http://dx.doi.org/10.1016/j.ijmedinf.2015.06.008> (Online Jul 2015).
46. Liyanage H, Correa A, Liaw ST, Kuziemy C, Terry AL, de Lusignan S. Does informatics enable or inhibit the delivery of patient-centred, coordinated, and quality-assured care. *Yearbook Med Informatics* 2015; 10(1).
47. de Lusignan S, Liaw ST, Dedman D, Khunti K, Sadek K, Jones S. An algorithm to improve diagnostic accuracy in diabetes in computerised problem orientated medical records (POMR) compared with an established algorithm developed in episode orientated records (EOMR). *J Innovation in Health Informatics* 2015; 22(2): 255-64.

48. Liaw ST, de Lusignan S, Kuziemsky C, Marcelo A, Grannis S. Optimizing the Use of Observational EHR Data: Current Issues and Evolving Strategies. *Proceedings Medinfo 2015*, Sao Paolo.
49. Pearce C, Veil K, Williams P, Cording A, Liaw ST, Grain H. Driving the Profession of Health Informatics: The Australasian College of Health Informatics. *Proceedings Medinfo 2015*, Sao Paolo.
50. de Lusignan S, Liyanage H, Di Iorio CT, Chan T, Liaw ST. Using routinely collected health data for surveillance, quality improvement and research: Framework and key questions to assess ethics and privacy and enable data access. *J Innov Health Inform* 2015;22(4):426–432.

F. Conference presentations

1. Godinho MA, Ashraf MM, Narasimhan P, Liaw ST. Digital Health, Social Enterprise & Citizen Engagement in Integrated People-Centered Health Services: A hermeneutic systematic review and preliminary framework synthesis. 2nd Asia Pacific Conference on Integrated Care (2019), Melbourne, Australia.
2. Liaw T, Ansari S, Jonnagaddala J, Narasimhan P, Ashraf MM, Harris-Roxas B, Harris MF. Use of mHealth to promote healthy ageing and support delivery of age-friendly health and long-term care services - A systematic review. Poster presentation at the 19th International Conference on Integrated Care in San Sebastian, Spain. 1st - 3rd April 2019. Published abstract: *International Journal of Integrated Care*. 19(S1): A147,1-8.
3. Ostropelets A, ... Jonnagaddala J, Liaw ST... et al. Concept Heterogeneity in the OHDSI Network. OHDSI symposium 2019. Bethesda, USA 2019
4. Godinho MA, Jonnagaddala J, Gudi N, Narasimhan P, Liaw ST. mHealth for integrated service delivery in the Western Pacific Region: A Systematic Review. Asia Pacific Association for Medical Informatics (APAMI) 2018. Colombo, Sri Lanka. (Abstract: <http://dhw2018.org/apami2018/download/2588/>)
5. Liaw T, Ansari S, Jonnagaddala J, Narasimhan P, Ashraf MM, Harris-Roxas B, Harris MF. Use of mHealth to promote healthy ageing and support delivery of age-friendly health and long-term care services - A systematic review. Poster highlights presentation at the 2018 Primary Health Care Research Conference in Melbourne, Australia. 2nd August 2018.
6. Huser V, ... Jonnagaddala J, Liaw ST, et al. Real World Database for Assessing Data Quality of Clinical Laboratory Tests and their Units. *OHDSI Symposium 2018*. Washington DC2018.
7. Farshid S, Guo GN, Jonnagaddala J, Liaw ST. Harmonising primary care data using international standard vocabularies for observational research. Poster presentation, HIC2018, 30 July 2018, Sydney Australia.

G. WHO-related meetings

1. Invited Observer, 2019 Pacific Health Information Network Meeting, 11th & 12th July, Noumea, New Caledonia.
2. Expert/Technical Advisor, WHO SEARO Regional consultation on Digital Health policy and practice, 28 Feb-01 Mar 2019, New Delhi, India.
3. Invited Panelist, Global Digital Health Partnership Forum, 27 Feb 2019, New Delhi, India.
4. Invited participant, Third Regional Forum of WHO Collaborating Centres in the Western Pacific, 22-23 Nov 2018, Ho Chi Minh City, Vietnam.
5. Invited Observer, WHO WPRO Technical Advisory Group meeting on Universal Health Coverage, 13-15 Nov 2018, Manila, Philippines.

6. Invited Panelist (Informatics expert) on Session 6 Ministerial Parallel Session on New Technologies, Innovations and Research in Primary Health Care (PHC). WHP-UNICEF Global PHC Conference 25-26 Oct 2018, Astana, Kazakhstan.
7. Invited Expert/Resource Person, 6th AeHIN General Meeting and Conference on Interoperable Digital Health for Universal Health Coverage from 05-10 Oct 2018, Colombo, Sri Lanka.
8. Adviser, Expert Consultation on eHealth and Integrated Health Service Delivery in the Western Pacific Region from 5 to 6 March 2018 in Manila, Philippines.

H. Commissioned reports

1. Liaw T, Guo G, Ansari S, Borelli J, Jonnagaddala J, Godinho M, de Lusignan S, Capurro D, Liyanage H, Kahn M (2020). Literature review to support assessment of My Health Record data for secondary use – for the Australian Institute of Health and Welfare.
2. Liaw ST, Zhou R, Ansari S, Gao J (2020). Co-creation of digital health profiles and maturity assessments for Pacific Island Countries – for the WHO Western Pacific Regional Office.
3. Liaw T, Ansari S, Jonnagaddala J, Narasimhan P, Ashraf MM, Harris-Roxas B, Harris MF (2019). A review of the use of mHealth to promote healthy ageing and support the delivery of age-friendly health care services in the Western Pacific Region – for the WHO Western Pacific Regional Office.

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https://forms.office.com/Pages/ResponsePage.aspx?id=pM_2PxXn20i44Qhnufn7o9BeeOC_8jxNuJQ2lgxVdtdUOUhRWVZIMIFWRkRTTUozN0tIUDJSOEdVMi4u