

ROUTLEDGE FOCUS

COVID-19, EDUCATION, AND LITERACY IN MALAYSIA

Social Contexts of Teaching and Learning

Edited by
Ambigapathy Pandian, Surinderpal Kaur
and Huey Fen Cheong

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Preface

The times of the coronavirus disease (COVID-19) are difficult, confusing, and stressful. The focus on literacy and education is important to open new learning choices and opportunities. Literacy is a force for inclusion and resilience to reimagine how we live, learn, and perform activities, especially when we witness closures of education institutions, changing role of educators, uncertainties in learning settings, and making appropriate health decisions. The rapid rush and push for digital technologies press us all to react and respond to new literacy experiences that shape people's learning, safety, and the quality of wellbeing.

This book entitled "*COVID-19, Education and Literacy in Malaysia: Social Contexts of Teaching and Learning*" addresses some of the points of intersection where diverse communities of learners explore unprecedented disruption, learn to grow through challenges and craft new resources for advancing the interests and capabilities of learners. The book aims to take us further and deeper into reflecting the learning essentials of our pandemic times. Much of the studies presented here explore teaching and learning matters from January 2020 till December 2020 amidst the pandemic when educators, learners, and other experts grappled with problems and solutions to present rapid action for the literacy and education context. This collection brings together educators, language, and health scholars to discuss the investigations they have begun about the nature of education and literacy, technology, the growing complexity and ambiguity surrounding knowledge, and perception on health and wellness in responding to the challenges of new learning.

The first section, "*The New Normal: Online Teaching and Learning with COVID-19*" offers [Chapter 1](#) to [Chapter 4](#) that delve into online learning experiences of university students; the second section, "*Corona Speak: Issues in Language and Literacy*" carries [Chapters 5](#) and [6](#) that

explore expressive and word features in the language domain while the final section, “*Flattening the Curve: Matters on Health Literacy*” presents **Chapters 7** and **8** that deliberate on the capacity to understand basic health knowledge to make well-informed decisions.

Chapter 1 on *International students and learning experiences in higher education* by Sheena Kaur, Prasana Rosaline Fernandez, and Ali Jalalian Daghigh highlights views from international students who brave pandemic challenges to confront academic, administrative, social, financial, and emotional challenges. The voices of students on the need to use a variety of technologies to support learning, creating flexible fee structures to address financial woes, and addressing psychological disorders such as stress, depression, and insomnia help the higher education industry stakeholders to strengthen the learning experiences of international students.

Chapter 2 on *University students’ online learning in Capstone Unit* by Liap-Teck Ong enables educators to reflect on better teaching and learning strategies, specifically in encouraging students to develop skills in working with business partners on online platforms. His study unveils both productive and challenging students’ experiences that will facilitate the online delivery of Capstone units in the new normal.

Chapter 3 on *Online assessments for university students: A case study of a business school* by

Devika Nadarajah considers the shift from traditional assessments to online assessments, which involved changes in examination modes and question formats. She argues that the case-studies analysis approach in the final examinations were able to sustain the quality and efficacy of student learning outcome assessments.

Chapter 4 on *Video log (Vlog) for enhancing speaking skills in the ESL Classroom* by Thilaga Ravinthar and Khursiah Mohd Sauffi ascertains that the video log (Vlog) can be perceived as an alternative learning tool in teaching speaking skills. Their work establishes that students felt positive and productive as they were able to cooperate and make good decisions in topic selection, learning technical skills, peer evaluations on their practices in speaking skills, and in interacting with their instructors in a very testing time.

Chapter 5 on *Foreign language learning at the university: Students’ perceptions and emotions* by Omar Colombo and Tamara Boscia focus on learners’ perceptions and emotions of a distance learning course in a Malaysian university, during the COVID-19 emergency. The learners’ main concerns were related to the clear feeling of frustration

caused by Internet connection and computer disruption, but this did not affect learners' foreign language learning motivation. The authors, however, assert that interpersonal interaction in the e-learning environment and online face-to-face engagement was important when giving continuous constructive feedback to students on their learning activities.

Chapter 6 on *A morphological analysis of COVID-19 novel words used in Malaysia* by Komalata Manokaran, Shyi Nian Ong, and Rodney C. Jubilado centres on the morphological analysis of newly coined words during COVID-19 and the meaning of the words. It is interesting to note that while struggling with the ongoing pandemic, the authors affirm that the words like lockdown, MySejahtera, and Selangkah used during the outbreak were mostly coined by compounding.

Chapter 7 on *Public knowledge and perception of COVID-19 and its preventive measures* by

Edmund Ui-Hang Sim and Su-Hie Ting investigated perceived knowledge of COVID-19 disease and perceived effectiveness of preventive measures among Malaysians. The analysis of survey data revealed that the public believed that they have moderate knowledge of COVID-19 disease. They note that individuals with good health literacy are more likely to take preventive measures and seek treatment if they fall sick.

Chapter 8 on *Knowledge, attitude, and practice on health and legal measures* by Natasya Abdullah, Noor Dzuhaidah Osman, Nur Syazana Umar, Muhammad Nizam Awang, and Zairina A Rahman reiterate that health communication and policies need baseline information on people's knowledge, attitudes, and practices with regard to the COVID-19 pandemic. The authors note that a majority of the study respondents expressed their willingness to adhere to the government's prevention and control measures for the well-being of their families.

Navigating through the COVID-19 crisis and its aftermath demands strength as we confront disruption in literacy and education. This book takes stock of some of the difficulties encountered by diverse learning communities while adapting to online knowledge cultures to understand how we can improve our learning and wellbeing systems. In literacy as in health, we are safe when our communities are safe; we prosper when everyone in our communities prosper too.

The editors would like to acknowledge the ideas and hard work put forward by everyone involved in this book. The contributors responded readily when we asked them to review, update, and expand

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their original chapters with only a few months to complete this work. We hope that you, the reader, will find this book useful, stimulating, and inspiring.

Ambigapathy Pandian
Surinderpal Kaur
Huey Fen Cheong

Chapter 1

References

- Al-Kumaim, N. H., Alhazmi, A. K., Mohammed, F., Gazem, N. A., Shabbir, M. S. and Fazea, Y. 2021. Exploring the Impact of the COVID-19 Pandemic on University Students' Learning Life: An Integrated Conceptual Motivational Model for Sustainable and Healthy Online Learning. *Sustainability*, 13(5), p. 2546. Online Available from: <http://dx.doi.org/10.3390/su13052546>.
- Aristovnik, A., Keržič, D., Ravšelj, D., Tomaževič, N. and Umek, L. 2020. Impacts of the COVID-19 Pandemic on Life of Higher Education Students: A Global Perspective. *Sustainability*, 12(20), p. 8438.
- Blackmore, J. 2020. The Carelessness of Entrepreneurial Universities in a World Risk Society: A Feminist Reflection on the Impact of COVID-19 in Australia. *Higher Education Research & Development*, 39(7), pp. 1332–1336.
- 20 S. Kaur, P. R. Fernandez, and A. J. Daghigh
- Demuyakor, J. 2020. Coronavirus (COVID-19) and Online Learning in Higher Institutions of Education: A Survey of the Perceptions of Ghanaian International Students in China. *Online Journal of Communication and Media Technologies*, 10(3), p. e202018.
- Firang, D. 2020. The Impact of COVID-19 Pandemic on International Students in Canada. *International Social Work*, 63(6), pp. 820–824.
- Gallagher, H. L., Doherty, A. Z. and Obonyo, M. 2020. International Student Experiences in Queensland during COVID-19. *International Social Work*, 63(6), pp. 815–819.
- Martel, M. 2020. COVID-19 Effects on US Higher Education Campuses. *From Emergency Response to Planning for Future Student Mobility*. Institute of International Education, New York.
- Misirlis, N., Zwaan, M., Sotiriou, A. and Weber, D. 2020. International Students' Loneliness, Depression and Stress Levels in COVID-19 Crisis: The Role of Social Media and the Host University. *Journal of Contemporary Education Theory & Research (JCETR)*, 4(2), pp. 20–25.
- Mok, K. H., Xiong, W., Ke, G. and Cheung, J. O. W. 2021. Impact of COVID-19 Pandemic on International Higher Education and Student Mobility: Student Perspectives from Mainland China and Hong Kong. *International Journal of Educational Research*, 105, p. 101718.
- Morgan, D. 1996. Focus Groups. *Annual Review of Sociology*, 22(1), pp. 129–152.
- Morris, A., Hastings, C., Mitchell, E., Ramia, G., Wilson, S. and Overgaard, C. 2020. *The Experience of International Students before and during COVID-19: Housing, Work, Study and Wellbeing*. Sydney: University of Technology Sydney.
- Nasir, M. I. M., Ramli, M. W. and Som, S. H. M. 2021. Now Look What You've Done, COVID-19! The Impact on Academic Survival among Postgraduate Students in Malaysia. *International Journal of Academic Research in Business and Social Sciences*, 11(2), pp. 604–618.
- Novikov, P. 2020. Impact of COVID-19 Emergency Transition to On-line Learning onto the International Students' Perceptions of Educational Process at Russian University. *Journal of Social Studies Education Research*, 11(3), pp. 270–302.
- Nguyen, O. O. T. K. and Balakrishnan, V. D. 2020. International Students in Australia – during and after COVID-19. *Higher Education Research & Development*, 39(7), 1372–1376
- Peters, M. A., Wang, H., Ogunniran, M. O., Huang, Y., Green, B., Chunga, J. O., Quainoo, E. A., Ren, Z., Hollings, S., Mou, C. and Khomera, S. W. 2020. China's Internationalized Higher Education during COVID-19: Collective Student Autoethnography. *Postdigital Science and Education*, 2, pp. 968–988.
- Sahu, P., 2020. Closure of Universities due to Coronavirus Disease 2019 (COVID-19): Impact on Education and Mental Health of Students and Academic Staff. *Cureus*, 12(4), p. e7541.
- Schulmann, P., 2020. *Perfect Storm: The impact of the Coronavirus Crisis on International Student Mobility to the United States*. New York: World Education Services. Online Available from: <https://wens.wes.org/2020/05/>

- [perfect-storm-the-impact-of-the-coronaviruscrisis-on-international-student-mobility-to-the-united-states](#).
- Selvanathan, M., Hussin, N. A. M. and Azazi, N. A. N. 2020 Students Learning Experiences during COVID-19: Work from Home Period in Malaysian Higher Learning Institutions. *Teaching Public Administration*. doi: [10.1177/0144739420977900](https://doi.org/10.1177/0144739420977900).
- Sundarasan, S., Chinna, K., Kamaludin, K., Nurunnabi, M., Baloch, G. M., Khoshaim, H. B., Hossain, S. F. A. and Sukayt, A. 2020. Psychological Impact of COVID-19 and Lockdown among University Students in Malaysia: Implications and Policy Recommendations. *International Journal of Environmental Research and Public Health*, 17(17), p. 6206.
- Wan Mohd Yunus W. M. A., Badri S. K. Z., Panatik S. A. and Mukhtar F. 2021. The Unprecedented Movement Control Order (Lockdown) and Factors Associated with the Negative Emotional Symptoms, Happiness, and Work-Life Balance of Malaysian University Students during the Coronavirus Disease (COVID-19) Pandemic. *Frontiers in Psychiatry*, 11, p. 566221. doi: [10.3389/fpsy.2020.566221](https://doi.org/10.3389/fpsy.2020.566221).
- Yassin, A. A., Razak, N. A., Saeed, M. A., Al-Maliki, M. A. A. and Al-Habies, F. A. 2021. Psychological Impact of the COVID-19 Pandemic on Local and International Students in Malaysian Universities. *Asian Education and Development Studies*. <https://doi.org/10.1108/AEDS-05-2020-0098>

Chapter 2

References

- Abbasi, S., Ayoob, T., Malik, A. and Memon, S. I. (2020). Perceptions of students regarding E-learning during COVID-19 at a private medical college. *Pakistan Journal of Medical Sciences*, 36(COVID19-S4), pp. S57–S61.
- Adedoyin, O. B. and Soykan, E. (2020). COVID-19 pandemic and online learning: The challenges and opportunities. *Interactive Learning Environments*, pp. 1–13.
- Adnan, M. and Anwar, K. (2020). Online learning amid the COVID-19 pandemic: Students perspectives. *Journal of Pedagogical Research*, 2(1), pp. 45–51.
- Alqurashi, E. (2019). Predicting student satisfaction and perceived learning within online learning environments. *Distance Education*, 40(1), pp. 133–148.

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- Altunay, Z. (2017). Evaluating peer learning and assessment in online collaborative learning environments. *Behaviour & Information Technology*, 36(3), pp. 312–320.
- Baber, H. (2021). Social interaction and effectiveness of the online learning – A moderating role of maintaining social distance during the pandemic COVID-19. *Asian Education and Development Studies*.
- Bartholomew, D. E., Newman, C. M. and Newman, L. M. (2021). A snapshot of the marketing Capstone course at U.S.-based AACSB schools. *Marketing Education Review*, 31(1), pp. 26–40.
- Blanford, J., Kennelly, P., King, B., Miller, D. and Bracken, T. (2019). Merits of Capstone projects in an online graduate program for working professionals. *Journal of Geography in Higher Education*, 44(1), pp. 45–69.
- Boyas, E. and Banerjee, H. (2021). Integrative Capstone Assignment in Core MBA Curriculum. *Developments in Business Simulation and Experiential Learning: Volume 48*, pp. 108–125.
- Bryson, J. R. and Andres, L. (2020). COVID-19 and rapid adoption and improvisation of online teaching: Curating resources for extensive versus intensive online learning experiences. *Journal of Geography in Higher Education*, 44(4), pp. 608–623.
- Crawford, J., Butler-Henderson, K., Rudolph, J., Malkawi, B., Glowatz, M., Burton, R., Magni, P. and Lam, S. (2020). COVID-19: 20 countries' higher education intra-period digital pedagogy responses. *Journal of Applied Learning & Teaching*, 3(1), pp. 1–20.
- Curtin, E. (2020). *UCC Students' Union Student Feedback on Online Learning Report (Ver5) Dec 2020*. Cork, Ireland: University College Cork.
- Gill, T. G. and Mullarkey, M. T. (2015). Taking a case method capstone course online: A comparative case study. *Journal of Information Technology Education*, 14, pp. 189–218.
- Girard, J. P., Yerby, J. and Floyd, K. (2016). Knowledge retention in Capstone experiences: An analysis of online and face-to-face courses. *Knowledge Management & E-Learning: An International Journal*, 8(4), pp. 528–539.
- Jung, J., Horta, H. and Postiglione, G. A. (2021). Living in uncertainty: The COVID-19 pandemic and higher education in Hong Kong. *Studies in Higher Education*, 46(1), pp. 107–120.
- Khalil, R., Mansour, A. E., Fadda, W. A., Almisnid, K., Aldamegh, M., Al-Nafeesah, A., Alkhalifah, A. and Al-Wutayd, O. (2020). The sudden transition to synchronized online learning during the COVID-19 pandemic in Saudi Arabia: A qualitative study exploring medical students' perspectives. *BMC Medical Education*, 20(1), p. 285.
- Lasfeto, D. (2020). The relationship between self-directed learning and students' social interaction in online learning environment. *Journal of e-Learning and Knowledge Society*, 16(2), pp. 34–41.
- Lee, N. and Loton, D. (2019). Capstone purposes across disciplines. *Studies in Higher Education*, 44(1), pp. 134–150.
- Maqsood, A., Abbas, J., Rehman, G. and Mubeen, R. (2021). The paradigm shift for educational system continuance in the advent of COVID-19

- pandemic: Mental health challenges and reflections. *Current Research in Behavioral Sciences*, 2, p. 100011. Available at: <https://journals.sagepub.com/doi/pdf/10.1177/1477971420947738> [Accessed 24 March 2021].
- Martin, A. J., Nejad, H. G., Colmar, S. and Liem, G. A. D. (2013). Adaptability: How students' responses to uncertainty and novelty predict their academic and non-academic outcomes. *Journal of Educational Psychology*, 105(3), 728–746.
- Neuwirth, L. S., Jović, S. and Mukherji, B. R. (2020). Reimagining higher education during and post-COVID-19: Challenges and opportunities. *Journal of Adult and Continuing Education*, Available at: <https://doi.org/10.1177/1477971420947738> [Accessed 24 December 2020].
- Osman, M. E. (2020). Global impact of COVID-19 on education systems: The emergency remote teaching at Sultan Qaboos University. *Journal of Education for Teaching*, 46(4), pp. 463–471.
- Petroski, D. J. and Rogers, D. (2020). An examination of student responses to a suddenly online learning environment: What we can learn from gameful instructional approaches. *Journal of Literacy & Technology*, 21(2), pp. 102–110.
- Rolim, C. and Isaias, P. (2019). Examining the use of e-assessment in higher education: Teachers and students' viewpoints. *British Journal of Educational Technology*, 50(4), pp. 1785–1800.
- Saxena, C., Baber, H. and Kumar, P. (2021). Examining the moderating effect of perceived benefits of maintaining social distance on e-learning quality during COVID-19 pandemic. *Journal of Educational Technology Systems*, 49(4), pp. 532–554.
- Shraim, K. (2019). Online examination practices in higher education institutions: learners' perspectives. *Turkish Online Journal of Distance Education*, 20(4), pp. 185–196.
- Van Manen, M. (2016). *Researching Lived Experience: Human Science for an Action Sensitive Pedagogy*. New York: Routledge.

References

- Beddewela, E., Warin, C., Hesselden, F., & Coslet, A. (2017). Embedding responsible management education – Staff, student and institutional perspectives. *The International Journal of Management Education*, 15(2), 263–279.
- Biggs, J. B. (1996). Enhancing teaching through constructive alignment. *Higher Education*, 32(3), 347–364.
- Burden, K., Kearney, M., Schuck, S., & Hall, T. (2019). Investigating the use of innovative mobile pedagogies for school-aged students: A systematic literature review. *Computers & Education*, 138, 83–100.
- Butler-Henderson, K., & Crawford, J. (2020). A systematic review of online examinations: A pedagogical innovation for scalable authentication and integrity. *Computers & Education*, 159, 104024.
- de Moura, V.F., de Souza, A.C., & Viana, A.B.N. (2021). The use of Massive Open Online Courses (MOOCs) in blended learning courses and the functional value perceived by students. *Computers & Education*, 161, 104077.
- Fadol, Y., Aldamen, H., & Saadullah, S. (2018). A comparative analysis of flipped, online and traditional teaching: A case of female Middle Eastern management students. *The International Journal of Management Education*, 16(2), 266–280.
- Geramian, S. M., Mashayekhi, S., & Ninggal, M. T. (2012). The relationship between personality traits of international students and academic achievement. *Procedia – Social and Behavioral Sciences*, 46, 4374–4379.
- Giannini, S., Jenkins, S., & J. Saavedra (2020). *Reopening schools: When, where and how?* UNESCO. <https://en.unesco.org/news/reopening-schools-when-where-and-how>
- Gouëdar, P., Pont, B., & Viennet, R. (2020). *Education responses to COVID-19: Shaping an implementation strategy*. OECD Education Working Papers No. 224, OECD Publishing.
- Guàrdia, L., Crisp, G., & Alsina, I. (2016). Trends and challenges of e-assessment to enhance student learning in higher education. In Cano, E., and Ion, G. (Eds.), *Innovative practices for higher education assessment and measurement* (pp. 233–389). IGI Global, Hershey, PA.
- Hair, J. F., Black, W.C., Babin, B.J., & Anderson, R.E. (2018). *Multivariate data analysis* (8th Ed.). Prentice Hall. DOI: 10.4018/978-1-5225-0531-0.ch003
- IAU (2020). *The impact of COVID-19 on higher education around the world*. International Association of Universities. https://www.iau-aiu.net/IMG/pdf/iau_covid19_and_he_survey_report_final_may_2020.pdf
- Ismail, A. F. (2020). *Facts, figures matter in MoE, MoHE rightsizing*. New Straits Times. <https://www.nst.com.my/opinion/columnists/2020/01/558581/facts-figures-matter-moe-mohe-rightsizing>
- Kruchoski, P. (2016). *10 skills you need to thrive tomorrow—and the universities that will help you get them*. World Economic Forum. <https://www.weforum.org/agenda/2016/08/10-skills-you-need-to-thrive-tomorrow-and-the-universities-that-will-help-you-get-them>.

- Liu, T. & Willis, K. (2021). Cut and paste pedagogy? Academic mobility, teaching practices and the circulation of knowledge. *Geoforum*, 119, 11–20.
- Ministry of Higher Education (2016). *Malaysia education blueprint 2015–2025 (higher education)*. Ministry of Higher Education Malaysia. <http://mohe.gov.my/muat-turun/awam/penerbitan/pppm-2015-2025-pt/5-malaysia-education-blueprint-2015-2025-higher-education>
- MQA. (2017). *Malaysian quality framework*. Malaysian Qualification Agency. <https://www.mqa.gov.my/pv4/mqf.cfm>
- OECD. (2020-1). *Education responses to COVID-19: An implementation strategy toolkit*. OECD Education Policy Perspectives No. 5, OECD Publishing.
- OECD. (2020-2). *Remote online exams in higher education during the COVID-19 crisis*. OECD Education Policy Perspectives No. 6, OECD Publishing.
- Oyedotun, T. D. (2020). Sudden change of pedagogy in education driven by COVID-19: Perspectives and evaluation from a developing country. *Research in Globalization*, 2, 100029.
- Ronnie, L. (2017). Dyadic processes in postgraduate education: Insights from MBA student experiences. *The International Journal of Management Education*, 15(3), 513–519.
- Seow, P.S., Pan, G., & Koh, G. (2019). Examining an experiential learning approach to prepare students for the volatile, uncertain, complex and ambiguous (VUCA) work environment. *The International Journal of Management Education*, 17(1), 62–76.
- UNESCO. (2020). *Global monitoring of school closures caused by COVID-19*. UNESCO. <https://en.unesco.org/covid19/educationresponse>
- Vos, L. (2015). Simulation games in business and marketing education: How educators assess student learning from simulations. *The International Journal of Management Education*, 13(1), 57–74.
- Wei, X., Saab, N., & Admiraal, W. (2021). Assessment of cognitive, behavioral, and affective learning outcomes in massive open online courses: A systematic literature review. *Computers & Education*, 163, 104097.
- Yuk, F. C. (2019). Malaysia: From hub to exporter of higher education and implications. *International Journal of Business and Social Science*, 10(2), 48–54.

References

- Ajoke, A. R. (2017) The Importance of Instructional Materials in Teaching English as A Second Language. *International Journal of Humanities and Social Science Invention*. 6(9), 36–44. Available from: www.ijhssi.org
- Alkurtehe, K., Mohan, R. & Krishnasamy, H. (2019) Improve Vocabulary through Watching Videos. *European Academic Research*. 11, 2728–2738.
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- Anggraeni, A., Rachmijati, C. & Apriliyanti, D. L. (2020) Vlog: A Tool for Students' Speaking Practice Enhancement. *Research and Innovation in Language Learning*. Available from: <https://doi.org/10.33603/rill.v3i1.2775>.
- Codreanu, T. & Combe, C. (2019) Vlogs, Video Publishing, and Informal Language Learning. In *The Handbook of Informal Language Learning*. Available from: <https://doi.org/10.1002/9781119472384.ch10>.
- Eng, L., Saeed, K. & Mohamed Ismail, S. A. M. (2019) Malaysian Speaking Proficiency Assessment Effectiveness for Undergraduates Suffering from Minimal Descriptors. *International Journal of Instruction*. 12, 1059–1076. Available from: <https://doi.org/10.29333/iji.2019.12i168a>
- Madzlan, N. A., Seng, G. H. & Kesevan, H. V. (2020) Use of Video Blogs in Alleviating Public speaking Anxiety Among ESL Learners. *Journal of Education and E-Learning Research*. 7(1). Available from: <https://doi.org/10.20448/journal.509.2020.7i1.93.99>
- Mandasari, B. & Aminatun, D. (2020) Improving Students' Speaking Performance through Vlog. *English Education: Journal of English Teaching and Research*. 5(2), 136–142. Available from: <https://doi.org/10.29407/jetar.v5i2.14772>
- Masofa, I. & Rahmah, N. A. L. (2018) Implementing Vlog for innovation in ELT practices. The 65th TEFLIN International Conference (pp. 172–179).
- Maulidah, I. (2018) Vlog: The Mean to Improve Students' Speaking Ability. 145 (Iconelt 2017), 12–15. Available from: <https://doi.org/10.2991/iconelt-17.2018.3>
- Sanford, D. R. (2020) *The Rowman & Littlefield Guide for Peer Tutors*. London, UK: Rowman & Littlefield Publishers.
- Syafri, Edi & Endrizal, N. (2020) VLOG: A Tool for Students' Speaking Practise Enhancement. *Journal of Research and Innovation in Language Learning*. 3(1), 23–31.
- Tarighat, S. & Khodabakhsh, S. (2016) Mobile-Assisted Language Assessment: Assessing Speaking. *Computers in Human Behavior*. 64, 409–413. Available from: <https://doi.org/10.1016/j.chb.2016.07.014>
- Thulasi Palpanadan, S., Ahmad, I., Eliana Binti Ahmad Zuki, R. & Abdul Samad, N. (2021) Effects of Using Online Approach on Speaking Skills Among Malaysian University Students. *English Literature and Language Review*. 72, 34–38. Available from: <https://doi.org/10.32861/ellr.72.34.38>
- Wulandari, M. (2019) Improving EFL Learners' Speaking Proficiency Through Instagram Vlog. *LLT Journal: A Journal on Language and Language Teaching*. 22(1), 111–125. Available from: doi.org/10.24071/llt.2019.220111

References

- Altugan, A., 2015. The relationship between cultural identity and learning. *Procedia-Social and Behavioral Sciences*, 186, 1159–1162. DOI: 10.1016/j.sbspro.2015.04.161.
- Bao, Y. and Hasan, N., 2020. Impact of “e-Learning crack-up” perception on psychological distress among college students during COVID-19 pandemic: A mediating role of “fear of academic year loss”. *Children and Youth Services Review*, 118, 105355. DOI: <https://doi.org/10.1016/j.childyouth.2020.105355>.
- Blum, S.D., 2020. Why we're exhausted by Zoom. *Inside Higher Ed*. [online]. Available from: <https://www.insidehighered.com/advice/2020/04/22/professor-explores-why-zoom-classes-deplete-her-energy-opinion> [Accessed 10 April 2021].
- Boudreau, C., Dewaele, J.M., and MacIntyre, P.D., 2018. Enjoyment and anxiety in second language communication: An idiodynamic approach. *Studies in Second Language Learning and Teaching*, 8 (1), 149–170. DOI: 10.14746/ssl.2018.8.1.7.
- Charlier, B., Cosnefroy, L., Jézégou, A., and Lameul, G., 2015. Understanding Quality of Learning in Digital Learning Environments: State of the Art and Research Needed. In: A. Curaj, L. Matei, R. Pricopie, J. Salmi, and P. Scott, eds. *The European Higher Education Area*. Cham: Springer, 381–398. DOI: 10.1007/978-3-319-20877-0_25.
- Cocoradă, E. and Maican, M.A., 2021. Online foreign language learning in higher education and its correlates during the COVID-19 pandemic. *Sustainability*, 13(781), 1–21. DOI: 10.3390/su13020781.
- Foreign language learning* 85
- Dewaele, J.M. and MacIntyre, D.P., 2014. The two faces of Janus? Anxiety and enjoyment in the foreign language classroom. *Studies in Second Language Learning and Teaching*, 4(2), Special issue: Positive Psychology, 237–274. DOI: 10.14746/ssl.2014.4.2.5.
- Dewaele, J.M. and MacIntyre, D.P., 2019. The predictive power of multicultural personality traits, learner and teacher variables on foreign language enjoyment and anxiety. In: S. Masatoshi and L. Shawn, eds. *Evidence-Based Second Language Pedagogy*. Abington: Routledge, 263–286. DOI: 10.4324/9781351190558.
- Dewaele, J.M., Witney, J., Saito, K., and Dewaele, L., 2017. Foreign language enjoyment and anxiety: The effect of teacher and learner variables. *Language Teaching Research*, 22, 676–697. DOI: 10.1177/1362168817692161.
- Dewaele, J.M., Chen, X., Padilla, A.M., and Lake, J., 2019. The flowering of positive psychology in foreign language teaching and acquisition research. *Frontiers in Psychology*, 10, 2128. [online]. Available from: <https://www.frontiersin.org/articles/10.3389/fpsyg.2019.02128/full> [Accessed 15 April 2021].
- Ghasemi, A.A. and Dowlatabadi, H.R., 2018. Investigating the role of task value, surface/deep learning strategies, and higher order thinking in predicting self-regulation and language achievement. *The Journal of Asia TEFL*, 15(3), 664–681. DOI: 10.18823/asiatefl.2018.15.3.7.664.
- Hodges, C., Moore, S., Lockee, B., Trust, T., and Bond, A., 2020. The difference between emergency remote teaching and online learning. *Educause Review* [online]. Available from: <https://er.educause.edu/articles/2020/3/the-difference-between-emergency-remote-teaching-and-online-learning> [Accessed 8 January 2021].
- Kara, M., 2020. Transactional distance and learner outcomes in an online EFL context. *Open Learning: The Journal of Open, Distance and e-Learning*, 36(1), 45–60. DOI: 10.1080/02680513.2020.1717454.
- Lee Watson, S., and Kim, W., 2016. Enrolment purposes, instructional activities, and perceptions of attitudinal learning in a human trafficking MOOC. *Open Learning: The Journal of Open, Distance and e-Learning*, 31(3), 273–287. DOI: 10.1080/02680513.2016.1230845.
- Leigh, H., 2015. Anxiety and Anxiety Disorders. In: H. Leigh and J. Streltzer, eds. *Handbook of Consultation-Liaison Psychiatry*, 2nd ed. New York: Springer Science + Business Media, 213–224. DOI: 10.1007/978-3-319-11005-9.
- Li, C. and Xu, J., 2019. Trait emotional intelligence and classroom emotions: A positive psychology investigation and intervention among Chinese EFL learners. *Frontiers in Psychology*, 10, 2453. [Online]. Available from: <https://www.frontiersin.org/articles/10.3389/fpsyg.2019.02453/full> [Accessed 12 April 2021].
- MacIntyre, P.D., 2017. An Overview of Language Anxiety Research and Trends in its Development. In: C. Gkonou, L. Daubney, and J.M. Dewaele, eds. *New Insights into Language Anxiety: Theory, Research and Educational Implications*. Bristol: Multilingual Matters, 11–30. DOI: 10.21832/9781783097722-003.
- Norton, A.R. and Abbott, M.J., 2016. Self-focused cognition in social anxiety: A review of the theoretical and empirical literature. *Behaviour Change*, 33 (1), 44–64. DOI: 10.1017/bec.2016.2.

- Olasile, B.A. and Emrah, S., 2020. Covid-19 pandemic and online learning: the challenges and opportunities, Interactive Learning Environments. *Interactive Learning Environments*, 1–13. DOI: [10.1080/10494820.2020.1813180](https://doi.org/10.1080/10494820.2020.1813180).
- Qiu, J., Shen, B., Zhao, M., Wang, Z., Xie, B., and Xu, Y., 2020. A nationwide survey of psychological distress among Chinese people in the COVID-19 epidemic: Implications and policy recommendations. *General Psychiatry*, 33 (2), e100213. [online]. Available from: <https://gpsych.bmj.com/content/33/2/e100213> [Accessed 13 April 2021].
- Rohman, M., Marji, D.A.S., Sugandi, R.M., and Nurhadi, D., 2020. Online learning in higher education during covid-19 pandemic: Students' perceptions. *Journal of Talent Development and Excellence*, 12 (2s), 3644–3651.
- Young, A. and Norgard, C., 2006. Assessing the quality of online courses from the students' perspective. *The Internet and Higher Education*, 9, 107–115. DOI: [10.1016/j.iheduc.2006.03.001](https://doi.org/10.1016/j.iheduc.2006.03.001).

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References

- Anderson, C. (2018). Essentials of Linguistic. *Open Textbook Library*. BCcampus Pressbook. Available at: <https://essentialsoflinguistics.pressbooks.com> (Accessed: 30 March 2020).
- Akut, K. B. (2020). Morphological Analysis of the Neologism during the COVID-19 Pandemic. *International Journal of English Language Studies*, 2(3), 01–07. Available at: <https://al-kindipublisher.com/index.php/ijels/article/view/90> (Accessed: 13 December 2020).
- Asif, M., Zhiyong, D., Iram, A. & Nisar, M. (2020). Linguistic Analysis of Neologism Related to Coronavirus (COVID-19). *Social Sciences & Humanities Open*. Available at: <https://papers.ssrn.com/sol3/papers.cfm> (Accessed: 18 December 2020).
- Bernama. (2020). Pandemi COVID-19 dan ketergantungan kepada media. Available at: <https://www.bernama.com/bm/tintaminda/news.php?id=1851891> (Accessed: 20 April 2021).
- Chiluwa, I. & Ajiboye, E. (2016). *Language Use in Crisis Situations: A Discourse Analysis of Online Reactions to Digital News Reports of the Washington Navy Yard Shooting and the Nairobi Westgate Attack*. Nova Science Publishers, Inc. Available at: <http://eprints.covenantuniversity.edu.ng/> (Accessed: 4 April 2020).
- Harian B. (2021). Available at: <https://www.beritaharian.sg/bahasa-budaya/suntikan-istilah-baru-dalam-bahasa-melayu> (Accessed: 20 April 2021).
- Kasdan, J., Baharudin, R., & Shansuri, A. S. (2020). COVID-19 dalam Korpus Peristilahan Bahasa Melayu: Analisis Soterminologi. *GEMA Online® Journal of Language Studies*, 20(3), 221–241. Available at: <http://dx.doi.org/10.17576/gema-2020-2003-13> (Accessed: 30 November 2020).
- Luthfiyati, D., Kholiq, A., & Zahroh, I. N. (2017). The Analysis of Word Formation Processes in The Jakarta Post Website. *Journal of Linguistics, English Education and Art (LEEAA)*, 1(1). Available at: <https://doi.org/10.31539/leea.v1i1.30> (Accessed: 16 June 2020).
- Oxford English Dictionary. (2020). Available at: <https://public.oed.com/updates/> (Accessed: August 2020).
- Piller, I., Zhang, J., & Li, J. (2020). Linguistic Diversity in a Time of Crisis: Language Challenges of the COVID-19 Pandemic. *Multilingual*, 39(5). Available at: <https://www.degruyter.com/document/> (Accessed: 30 October 2020).
- Ratih, E. & Gusdian, R. I. (2018). Word Formation Processes in English New Words of Oxford English Dictionary (OED) Online. *Celtic A Journal of Culture English Language Teaching Literature & Linguistic* 5(2), 24. Available at: <https://ejournal.umm.ac.id/> (Accessed: 20 May 2020).
- Rizki, S. & Marlina, L. (2018). Word Formation Process in Novel Alice's Adventures in Wonderland by Lewis Carroll and Movie Alice in Wonderland by Walt Disney. *e-Journal English Language and Literature*, 7(1). Available at: <http://ejournal.unp.ac.id/> (Accessed: 4 April 2020).

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- Roig-Marin, A. (2020) English-based Coroneologisms: A Short Survey of Our Covid-19-Related Vocabulary. *English Today*, 1–3. Cambridge University Press. Available at: <https://www.cambridge.org/core/journals/english-today/article/abs/englishbased-coroneologisms/> (Accessed: 18 December 2020).
- The Star. (2019). Available at: <https://www.thestar.com.my/news/nation/2019/09/14/> (Accessed: 30 March 2020).
- The Star. (2020). Available at: <https://www.thestar.com.my/lifestyle/culture/2020/03/29/malaysian-author-creates-a-user-friendly-covid-19-lexicon> (Accessed: 19 May 2020).
- Thorne, T. (2020). *CORONASPEAK – The Language of Covid-19 Goes Viral*. King's College London.
- Yule, G. (2017). *The Study of Language*. Six Edition. New York: Cambridge University Press. Available at: <https://shahroodut.ac.ir> (Accessed: 20 June 2020)

References

- Abdullah, N.H., 2020a. *Kenyataan Akhbar KPK 1 Julai 2020 – Situasi Semasa Jangkitan Penyakit Coronavirus 2019 (COVID-19) di Malaysia*. Retrieved from <https://kpkkesihatan.com/2020/07/01/kenyataan-akhbar-kpk-1-julai-2020-situasi-semasa-jangkitan-penyakit-coronavirus-2019-covid-19-di-malaysia/>.
- Abdullah, N.H., 2020b. *Kenyataan Akhbar KPK 15 Julai 2020 – Situasi Semasa Jangkitan Penyakit Coronavirus 2019 (COVID-19) di Malaysia*. Retrieved from <https://kpkkesihatan.com/2020/07/15/kenyataan-akhbar-kpk-15-julai-2020-situasi-semasa-jangkitan-penyakit-coronavirus-2019-covid-19-di-malaysia/>.
- Al-Hasan, A., Yim, D., & Khuntia, J., 2020. Citizens' adherence to COVID-19 mitigation recommendations by the government: A 3-country comparative evaluation using web-based cross-sectional survey data. *Journal of Medical Internet Research*, 22(8), Article e20634.
- Anfinrud, P., Stadnytskyi, V., Bax, C.E., & Bax, A., 2020. Visualizing speech-generated oral fluid droplets with laser light scattering. *The New England Journal of Medicine*, 382(21), pp. 2061–2063. Retrieved from <https://doi.org/10.1056/NEJMc2007800>.
- Azlan, A.A., Hamzah, M.R., Sern, T. J., Ayub, S.H., & Mohamad, E., 2020. Public knowledge, attitudes and practices towards COVID-19: A cross-sectional study in Malaysia. *PLOS One*, 15(5), Article e0233668.
- Bai Y., Yao L., Wei T., Tian F., Jin D.Y., Chen L., & Wang M. 2020. Presumed asymptomatic carrier transmission of COVID-19. *JAMA*, 323(14), 1406–1407. doi: 10.1001/jama.2020.2565. PMID: 32083643; PMCID: PMC7042844.
- Bangalore, S., Sharma, A., Slotwiner, A., Yatskar, L., Harari, R., Shah, B., Ibrahim, H., Friedman, G.H., Thompson, C., Alviar, C.L., Chadow,

- H.L., Fishman, G.I., Reynolds, H.R., Keller, N., & Hochman, J.S., 2020. ST-segment elevation in patients with COVID-19: A case series. *New England Journal of Medicine*, 382(25), pp. 2478–2480. doi: 10.1056/NEJMc2009020.
- Centers for Disease Control and Prevention (CDC), 2020a, October 19. *Coronavirus Disease 2019 (COVID-19): Duration of Isolation and Precautions for Adults with COVID-19*. CDC (U.S. Department of Health & Human Services). Atlanta, Georgia, U.S. Retrieved from <https://www.cdc.gov/coronavirus/2019-ncov/hcp/duration-isolation.html>.
- Centers for Disease Control and Prevention (CDC), 2020b, October 5. *Coronavirus Disease 2019 (COVID-19): How COVID-19 Spreads*. CDC (U.S. Department of Health & Human Services). Atlanta, Georgia, U.S. Retrieved from https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/how-covid-spreads.html?CDC_AA_refVal=https%3A%2F%2Fwww.cdc.gov%2Fcoronavirus%2F2019-ncov%2Fprepare%2Ftransmission.html.
- Chen, N., Zhou, M., Dong, X., Qu, J., Gong, F., Han, Y., ... & Yu, T., 2020. Epidemiological and clinical characteristics of 99 cases of 2019 novel coronavirus pneumonia in Wuhan, China: A descriptive study. *The Lancet*, 395(10223), pp. 507–513.
- Chow, N., Fleming-Dutra, K., Gierke, R., Hall, A. Hughes, M., Pilishvili, T., Ritchey, M., Roguski, K., Skoff, T., & Ussery, E., 2020. Preliminary estimates of the prevalence of selected underlying health conditions among patients with Coronavirus Disease 2019 – United States, February 12–March 28, 2020. *MMWR Morbidity and Mortality Weekly Report*, 69(13), pp. 382–386. doi: 10.15585/mmwr.mm6913e2.
- Ferdous, M.Z., Islam, M.S., Sikder, M.T., Mosaddek, A.S.M., Zegarra-Valdivia, J.A., & Gozal, D., 2020. Knowledge, attitude, and practice regarding COVID-19 outbreak in Bangladesh: An online-based cross-sectional study. *PLOS One*, 15(10), Article e0239254.
- Gibbins, S., 2020, March 18. Why soap is preferable to bleach in the fight against coronavirus. National Geographic. Retrieved from <https://www.nationalgeographic.com/science/2020/03/why-soap-preferable-bleach-fight-against-coronavirus/>.
- Gorbalenya, A.E., Baker, S.C., Baric, R.S., de Groot, R.I., Drosten, C., Gulyaeva, A.A., ... & Penzar, D., 2020. The species severe acute respiratory syndrome related coronavirus: Classifying 2019-nCoV and naming it SARS-CoV-2. *Nature Microbiology*, 5(4), pp. 536–544.
- Guan, W.J., Ni, Z.Y., Hu, Y., Liang, W.H., Ou, C.Q., He, J.X., ... & Du, B., 2020. Clinical characteristics of coronavirus disease 2019 in China. *New England Journal of Medicine*, 382(18), pp. 1708–1720.
- Holshue, M.L., DeBolt, C., Lindquist, S., Lofy, K.H., Wiesman, J., Bruce, H., Spitters, C., Ericson, K., Wilkerson, S., Tural, A., Diaz, G., Cohn, A., Fox, L., Patel, A., Gerber, S.I., Kim, L., Tong, S., Lu, X., Lindstrom, S., Pallansch, M.A., ... Washington State 2019-nCoV Case Investigation Team, 2020. First case of 2019 novel coronavirus in the United States. *The New England Journal of Medicine*, 382(10), pp. 929–936. Retrieved from <https://doi.org/10.1056/NEJMoa2001191>.

- Huang, C., Wang, Y., Li, X., Ren, L., Zhao, J., Hu, Y., ... & Cheng, Z., 2020. Clinical features of patients infected with 2019 novel coronavirus in Wuhan, China. *The Lancet*, 395(10223), pp. 497–506.
- Kim G.U., Kim, M.J., Ra, S.H., Lee, J., Bae, S., Jung, J., & Kim, S.H., 2020. Clinical characteristics of asymptomatic and symptomatic patients with mild COVID-19. *Clinical Microbiology and Infection*, 26(7), pp. 948.e1–948.e3. doi: 10.1016/j.cmi.2020.04.040.
- Kimball, A., Hatfield, K.M., Arons, M., James, A., Taylor, J., Spicer, K., ... & Bell, J.M., 2020. Asymptomatic and presymptomatic SARS-CoV-2 infections in residents of a long-term care skilled nursing facility—King County, Washington. *Morbidity and Mortality Weekly Report*, 69(13), pp. 377–381.
- La Rosa, G., Bonadonna, L., Lucentini, L., Kenmoe, S., & Suffredini, E., 2020. Coronavirus in water environments: Occurrence, persistence and concentration methods – A scoping review. *Water Research*, 179, Article 115899. Retrieved from <https://doi.org/10.1016/j.watres.2020.115899>.
- Lauer, S.A., Grantz, K.H., Bi, Q., Jones, F.K., Zheng, Q., Meredith, H.R., ... & Lessler, J., 2020. The incubation period of coronavirus disease 2019 (COVID-19) from publicly reported confirmed cases: Estimation and application. *Annals of Internal Medicine*, 172(9), pp. 577–582.
- Lewis, D., 2020. Mounting evidence suggests coronavirus is airborne—but health advice has not caught up. *Nature*, 583(7817), pp. 510–513.
- Li, Y., Li, M., Wang, M., Zhou, Y., Chang, J., Xian, Y., Wang, D., Mao, L., Jin, H., & Hu, B., 2020. Acute cerebrovascular disease following COVID-19: A single center, retrospective, observational study. *Stroke and Vascular Neurology*, 5(3), pp. 279–284. doi: 10.1136/svn-2020-000431.
- Magro, C., Mulvey, J.J., Berlin, D., Nuovo, G., Salvatore, S., Harp, J., Baxter-Stoltzfus, A., & Laurence, J., 2020. Complement associated microvascular injury and thrombosis in the pathogenesis of severe COVID-19 infection: A report of five cases. *Translation Research*, 220, pp. 1–13. doi: 10.1016/j.trsl.2020.04.007.
- Maxwell, E., 2020. Living with COVID-19: A dynamic review of the evidence around ongoing COVID-19 symptoms (often called Long COVID). Retrieved from <https://evidence.nihr.ac.uk/wp-content/uploads/2020/10/Living-with-Covid-Themed-Review.pdf>.
- Mizumoto, K., Kagaya, K., Zarebski, A., & Chowell, G. (2020). Estimating the asymptomatic proportion of coronavirus disease 2019 (COVID-19) cases on board the Diamond Princess cruise ship, Yokohama, Japan. *Eurosurveillance*, 25(10), Article 2000180. doi: 10.2807/1560-7917.
- National Center for Immunization and Respiratory Diseases (NCIRD), 2020. *About 2019 Novel Coronavirus (2019-nCoV)*. Centers for Disease Control and Prevention, U.S. Department of Health & Human Services. Atlanta, Georgia. Retrieved from <https://www.cdc.gov/coronavirus/2019-ncov/about/index.html>.
- Nikolai, L.A., Meyer, C.G., Kremsner, P.G., & Velavan, T.P., 2020. Asymptomatic SARS Coronavirus 2 infection: Invisible yet invincible. *International Journal of Infectious Diseases*, 100, pp. 112–116. Retrieved from <https://doi.org/10.1016/j.ijid.2020.08.076>.
- Oran, D.P., & Topol, E.J., 2020. Prevalence of asymptomatic SARS-CoV-2 infection: A narrative review. *Annals of Internal Medicine*, 173(5), pp. 362–367. doi: 10.7326/M20-3012.
- Reuben, R.C., Danladi, M.M., Saleh, D.A., & Ejembi, P.E., 2020. Knowledge, attitudes and practices towards COVID-19: An epidemiological survey in North-Central Nigeria. *Journal of Community Health*, pp. 1–14. Retrieved from <https://doi.org/10.1007/s10900-020-00881-1>.
- Scott, T.L., Gazmararian, J.A., Williams, M.V., & Baker, D.W., 2002. Health literacy and preventive health care use among medicare enrollees in a managed care organization. *Medical Care*, 40(5), pp. 395–404.
- Stadnytskyi, V., Bax, C.E., Bax, A., & Anfinrud, P., 2020. The airborne lifetime of small speech droplets and their potential importance in SARS-CoV-2 transmission. *Proceedings of the National Academy of Sciences of the United States of America*, 117(22), pp. 11875–11877. Retrieved from <https://doi.org/10.1073/pnas.2006874117>.
- Tang, A., 2020. July 8. COVID-19: 70% of cases in Malaysia were asymptomatic, says Health DG. The Star. Retrieved from <https://www.thestar.com.my/news/nation/2020/07/08/covid-19-70-of-cases-in-malaysia-were-asymptomatic-says-health-dg>.
- The New York Times Company, 2021, January 13. *CDC analysis: More than half of all COVID-19 transmission begins with people that show no symptoms*. Retrieved from <https://www.firstpost.com/tech/science/cdc-analysis-shows-over-half-of-all-covid-19-transmission-begins-with-people-that-show-no-symptoms-9196861.html>.
- The Star, 2020, October 12. Conditional MCO: Dos and don'ts for Sabah, Selangor and others Retrieved from <https://www.thestar.com.my/news/nation/2020/10/12/conditional-mco-dos-and-don039ts-for-sabah-selangor-and-others>.
- Van Doremalen, N., Bushmaker, T., Morris, D.H., Holbrook, M.G., Gamble, A., Williamson, B.N., ... & Lloyd-Smith, J.O., 2020. Aerosol and surface stability of SARS-CoV-2 as compared with SARS-CoV-1. *New England Journal of Medicine*, 382(16), pp. 1564–1567. Retrieved from <https://doi.org/10.1056/NEJMc2004973>.
- Wang, D., Hu, B., Hu, C., Zhu, F., Liu, X., Zhang, J., ... & Zhao, Y., 2020. Clinical characteristics of 138 hospitalized patients with 2019 novel coronavirus-infected pneumonia in Wuhan, China. *JAMA*, 323(11), pp. 1061–1069.
- Wei, W.E., Li, Z., Chiew, C.J., Yong, S.E., Toh, M.P., & Lee, V.J., 2020. Presymptomatic Transmission of SARS-CoV-2—Singapore, January 23–March 16, 2020. *Morbidity and Mortality Weekly Report*, 69(14), pp. 411–415.
- Won S-Y. & Pascall, G., 2004. A Confucian war over childcare? Practice and policy in childcare and their implications for understanding the Korean gender regime. *Social Policy & Administration*, 38(3), pp. 270–289. doi: 10.1111/j.1467-9515.2004.00390.x.

- World Health Organization (WHO), 2020a. Naming the coronavirus disease (COVID-19) and the virus that causes it. Retrieved from [https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technical-guidance/naming-the-coronavirus-disease-\(covid-2019\)-and-the-virus-that-causes-it](https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technical-guidance/naming-the-coronavirus-disease-(covid-2019)-and-the-virus-that-causes-it).
- World Health Organization (WHO), 2020b. Report of the WHO-China Joint Mission on Coronavirus Disease 2019 (COVID-19). Retrieved from [https://www.who.int/publications/i/item/report-of-the-who-china-joint-mission-on-coronavirus-disease-2019-\(covid-19\)](https://www.who.int/publications/i/item/report-of-the-who-china-joint-mission-on-coronavirus-disease-2019-(covid-19)).
- World Health Organization (WHO), 2020c. Transmission of COVID-19 by asymptomatic cases. Retrieved from <http://www.emro.who.int/health-topics/corona-virus/transmission-of-covid-19-by-asymptomatic-cases.html>.
- Wu, Z., & McGoogan, J. M., (2020). Characteristics of and important lessons from the coronavirus disease 2019 (COVID-19) outbreak in China: summary of a report of 72 314 cases from the Chinese Center for Disease Control and Prevention. *Journal of the American Medical Association (JAMA)*, 323(13), pp. 1239–1242.
- Xu, X.W., Wu, X.X., Jiang, X.G., Xu, K.J., Ying, L.J., Ma, C.L., ... & Sheng, J.F., 2020. Clinical findings in a group of patients infected with the 2019 novel coronavirus (SARS-Cov-2) outside of Wuhan, China: Retrospective case series. *British Medical Journal*, 368, article m606.
- Yau, E.K.B., Pang, N.T.P., Shoesmith, W.D., James, S., Nor Hadi, N.M., & Loo, J.L., 2020. The behaviour changes in response to COVID-19 pandemic within Malaysia. *The Malaysian Journal of Medical Sciences*, 27(2), pp. 45–50.
- Yu, P., Zhu, J., Zhang, Z., & Han, Y., 2020. A familial cluster of infection associated with the 2019 novel coronavirus indicating possible person-to-person transmission during the incubation period. *The Journal of Infectious Diseases*, 221(11), pp. 1757–1761.

References

- Al-Hanawi, M. K., Angawi, K., Alshareef, N., Qattan, A., Helmy, H. Z., Abudawood, Y., Alqurashi, M., Kattan, W. M., Kadasah, N. A., Chirwa, G. C., & Alsharqi, O. (2020). Knowledge, attitude and practice toward COVID-19 among the public in the Kingdom of Saudi Arabia: A cross-sectional study. *Frontiers in Public Health*, 8, 217. Retrieved from <https://doi.org/10.3389/fpubh.2020.00217>.
- 142 N. Abdullah, N. D. Osman, N. S. Umar et al.
- Al-Hasan, A., Yim, D., & Khuntia, J. (2020). Citizens' adherence to COVID-19 mitigation recommendations by the government: A 3-country comparative evaluation using web-based cross-sectional survey data. *Journal of Medical Internet Research*, 22(8), e20634. Retrieved from <https://doi.org/10.2196/20634>.
- Andrade, C., Menon, V., Ameen, S., & Kumar Praharaj, S. (2020). Designing and conducting knowledge, attitude, and practice surveys in psychiatry: Practical guidance. *Indian Journal of Psychological Medicine*, 42(5), 478–481.
- Aziz, N. A., Othman, I., Lugova, H., & Suleiman, A. (2020). Malaysia's approach in handling COVID-19 onslaught: Report on the Movement Control Order (MCO) and targeted screening to reduce community infection rate and impact on public health and economy. *Journal of Infection and Public Health*, 13(12), 1823–1829. Retrieved from <https://doi.org/10.1016/j.jiph.2020.08.007>.
- Azlan, A. A., Hamzah, M. R., Sern, T. J., Ayub, S. H., & Mohamad, E. (2020). Public knowledge, attitudes and practices towards COVID-19: A cross-sectional study in Malaysia. *PLOS One*, 15(5), e0233668. Retrieved from <https://doi.org/10.1371/journal.pone.0233668>.
- Bisserbe, N., Sylvers, E., & Martinez, M. (2020, October 19). As COVID-19 roars back in Europe, governments get tougher on rule breakers. WSJ website. Retrieved from <https://www.wsj.com/articles/as-COVID-19-roars-back-in-europe-governments-get-tougher-on-rule-breakers-11603111859>.
- Carlos, W. G., Cruz, C. S. D., Cao, B., Parnick, S., & Jamil, S. (2020). Novel Wuhan (2019-nCoV) coronavirus. *American Journal of Respiratory and Critical Care Medicine*, 201(4), 7–8. Retrieved from <https://doi.org/10.1164/rccm.2014P7>.
- Claeson, M., & Hanson, S. (2021). COVID-19 and the Swedish enigma. *The Lancet*, 397(10271), 259–261. Retrieved from [https://doi.org/10.1016/S0140-6736\(20\)32750-1](https://doi.org/10.1016/S0140-6736(20)32750-1).
- Egan, M., Acharya, A., Sounderajah, V., Xu, Y., Mottershar, A. et al. (2021). Evaluating the effect of infographics on public recall, sentiment and willingness to use face masks during the COVID-19 pandemic: A randomised internet-based questionnaire study. *BMC Public Health*, 21, 367. Retrieved from <https://doi.org/10.1186/s12889-021-10356-0>.
- Gumucio, S., Merica, M., Luhmann, N., Fauvel, G., Zoppi, S., Ronsse, A., Fauvel, G., Courcaud, A., Bouchon, M., Trehin, C., Schapman, S., & Ronsse, R. (2011). Data collection quantitative methods, the KAP survey model (Knowledge, Attitude and Practices). *IGC communigraphie; Saint Etienne, France*, 5.
- Hills, S., & Eraso, Y. (2021). Factors associated with non-adherence to social distancing rules during the COVID-19 pandemic: A logistic regression analysis. *BMC Public Health* 21, 352. Retrieved from <https://doi.org/10.1186/s12889-021-10379-7>.
- Kalil, A. C. (2020). Treating COVID-19—Off-label drug use, compassionate use, and randomised clinical trials during pandemics. *JAMA*, 323(19), 1897–1898. Retrieved from <https://doi.org/10.1001/jama.2020.4742>.
- Launiala, A. (2009). How much can a KAP survey tell us about people's knowledge, attitudes and practices? Some observations from medical anthropology

- research on malaria in pregnancy in Malawi. *Anthropology Matters*, 11(1), 1–13. Retrieved from <https://doi.org/10.22582/am.v11i1.31>
- Lazarus, J. V., Ratzan, S., Palayew, A., Billari, F. C., Binagwaho, A., et al. (2020). COVID-SCORE: A global survey to assess public perceptions of government responses to COVID-19 (COVID-SCORE-10). *PLOS One*, 15(10), e0240011. Retrieved from <https://doi.org/10.1371/journal.pone.0240011>.
- Mansuri, F. M. A., Zalat, M. M., Khan, A. A., Alsaedi, E. Q., & Ibrahim, H. M. (2020). Estimating the public response to mitigation measures and self-perceived behaviours towards the COVID-19 pandemic. *Journal of Taibah University Medical Sciences*, 15(4), 278–283. Retrieved from <https://doi.org/10.1016/j.jtumed.2020.06.003>.
- National Security Council Act 2016 (Act 776). Retrieved from http://www.federalgazette.agc.gov.my/outputaktap/aktaBI_20160607_776-BI.pdf
- Nivette, A., Ribeaud, D., Murray, A., Steinhoff, A., Bechtiger, L., Hepp, U., Shanahan, L., & Eisner, M. (2021). Non-compliance with COVID-19-related public health measures among young adults in Switzerland: Insights from a longitudinal cohort study. *Social Science & Medicine*, 268, 113370. Retrieved from <https://doi.org/10.1016/j.socscimed.2020.113370>.
- Paul, A., Sikdar, D., Hossain, M. M., Amin, M. R., Deeba, F. et al. (2020). Knowledge, attitudes, and practices toward the novel coronavirus among Bangladeshis: Implications for mitigation measures. *PLOS One*, 15(9), e0238492. Retrieved from <https://doi.org/10.1371/journal.pone.0238492>.
- Police Act 1967 (Act 344). Retrieved from <http://www.agc.gov.my/Akta/Vol.%207/Act%20344.pdf>
- Prevention and Control of Infectious Disease (Measures within the infected local areas) regulations 2020. Published 18 March 2020. Retrieved from http://www.federalgazette.agc.gov.my/outputp/pua_20200318_PUA91_2020.pdf.
- Ryu, S., Hwang, Y., Yoon, H., & Chun, B. (2020). Self-quarantine noncompliance during the COVID-19 pandemic in South Korea. *Disaster Medicine and Public Health Preparedness*, 1–4. Retrieved from <https://doi:10.1017/dmp.2020.374>.
- Selby, K., Durand, M.-A., Gouveia, A., Bosisio, F., Barazzetti, G., Hostettler, M., D'Acremont, V., Kaufmann, A., & von Plessen, C. (2020). Citizen responses to government restrictions in Switzerland during the COVID-19 pandemic: Cross-sectional survey. *JMIR Formative Research*, 4(12), e20871. Retrieved from <https://doi.org/10.2196/20871>.
- Tang, K.H.D. (2020). Movement control as an effective measure against COVID-19 spread in Malaysia: an overview. *Zeitschrift für Gesundheitswissenschaften = Journal of public health*, 1–4. Advance online publication. Retrieved from <https://doi.org/10.1007/s10389-020-01316-w>.
- Teoh, P.Y. & Basyir M. (2021) COVID-19 vaccine not an 'immunity passport', *New Straits Time*, 4th January (Online). Retrieved from <https://www.nst.com.my/news/nation/2021/01/654482/COVID-19-vaccine-not-immunity-passport;accessed>. (Accessed: 10 January 2021).

- The Lancet. (2020). COVID-19: fighting panic with information. *Lancet (London, England)*, 395(10224), 537. Retrieved from [https://doi.org/10.1016/s0140-6736\(20\)30379-2](https://doi.org/10.1016/s0140-6736(20)30379-2).
- The Star (2020). Health DG: Spike in COVID-19 cases expected due to active detection at hotspots. Retrieved from <https://www.thestartv.com/v/health-dg-spike-in-covid-19-cases-expected-due-to-active-detection-at-hotspots>.
- The Sun Daily (2021). Compound for violating MCO SOP now set at RM10,000-IGP. Retrieved from <https://www.thesundaily.my/local/compound-for-violating-mco-sop-now-set-at-rm10000-igp-updated-YB7175562>.
- Turan, B., Budhwani, H., Fazeli, P. L., Browning, W. R., Raper, J. L., Mugavero, M. J., & Turan, J. M. (2016). How does stigma affect people living with HIV? The mediating roles of internalized and anticipated HIV stigma in the effects of perceived community stigma on health and psychosocial outcomes. *AIDS and Behavior*, 21(1), 283–291. Retrieved from <https://doi.org/10.1007/s10461-016-1451-5>.
- Van Nhu, H., Tuyet-Hanh, T. T., Van, N., Linh, T., & Tien, T. Q. (2020). Knowledge, attitudes, and practices of the Vietnamese as key factors in controlling COVID-19. *Journal of community health*, 45(6), 1263–1269. Retrieved from <https://doi.org/10.1007/s10900-020-00919-4>.
- World Health Organization (WHO) (2020a, October 7). WHO/Europe discusses how to deal with pandemic fatigue. Retrieved from <https://www.who.int/news-room/feature-stories/detail/who-europe-discusses-how-to-deal-with-pandemic-fatigue>.
- World Health Organization (WHO). (2020b). Managing the COVID-19 infodemic: Promoting healthy behaviours and mitigating the harm from misinformation and disinformation. Retrieved from <https://www.who.int/news/item/23-09-2020-managing-the-COVID-19-infodemic-promoting-healthy-behaviours-and-mitigating-the-harm-from-misinformation-and-disinformation>.
- World Health Organization (WHO). (2020c). Novel Coronavirus (2019-nCoV): Situation Report - 1. Retrieved from https://www.who.int/docs/default-source/coronaviruse/situation-reports/20200121-sitrep-1-2019-ncov.pdf?sfvrsn=20a99c10_4.
- Yeoh, L. & Qarirah, N. (2020, September 14). COVID-19 pandemic and the rule of law. Malaysiakini website. Retrieved from <https://www.malaysiakini.com/letters/542531>.
- Zhang, L., Tao, Y., Shen, M., Fairley, C. K., & Guo, Y. (2020). Can self-imposed prevention measures mitigate the COVID-19 epidemic? *PLOS Medicine*, 17(7), e1003240. Retrieved from <https://doi.org/10.1371/journal.pmed.1003240>.
- Zhong, B. L., Luo, W., Li, H. M., Zhang, Q. Q., Liu, X. G., Li, W. T., & Li, Y. (2020). Knowledge, attitudes, and practices towards COVID-19 among Chinese residents during the rapid rise period of the COVID-19 outbreak: A quick online cross-sectional survey. *International Journal of Biological Sciences*, 16(10), 1745–1752. Retrieved from <https://doi.org/10.7150/ijbs.45221>.