



RESEARCH IN A SNAP

OVERVIEW

We're keeping you updated on papers added to The Center's Knowledge Repository.

Knowledge Repository News

Welcome to the first Research in a Snap of 2017! We've recently added 41 new citations. (Published ahead of print "in press" and will be updated as volume and page information becomes available.) In addition to a healthy number of safety-related papers, the latest additions include eight citations from forthcoming special issues of the Journal of Interior Design (JID) focused solely on healthcare design. The special issues are a result of a call for papers extended by Cornell University professors Sheila Danko, LEED AP and Mardelle Shepley, D.Arch., FAIA, FACHA, EDAC, LEED AP. A paper by Quan, Joseph, & Nanda (2017) features work completed at The Center for Health Design through a grant from the ASID Foundation. The referenced tool is available on The Center's website (<https://www.healthdesign.org/insights-solutions/patient-room-design-checklist-and-evaluation-tool>). Two invited perspective papers are also featured in these special issues:

Nanda, U. (2017). A Senssthetic Approach to Designing for Health. Journal of Interior Design, (in press). <https://doi.org/10.1111/joid.12098>

Taylor, E. (2017). The Healthcare Workplace: More than a New "Old" Hospital. Journal of Interior Design, (in press). <https://doi.org/10.1111/joid.12093>

January-February 2017

Interior Design (Including the JID Special Issue)

1. Clapton, G., & Reid, L. (2017). Neglected spaces: UK general practice surgery waiting rooms. BJGP Open, 1–11. <https://doi.org/10.3399/bjgpopen17X100641>
2. Harris, D. (2017). A Material World: A Comparative Study of Flooring Material Influence on Patient Safety, Satisfaction, and Quality of Care. Journal of Interior Design, (in press). <https://doi.org/10.1111/joid.12100>
3. Joseph, A., Wingler, D., & Zamani, Z. (2017). Balancing the Human Touch with the Need for Integrating Technology in Ambulatory Surgical Environments: Barriers and Facilitators to Nursing Work and Care Team Interactions. Journal of Interior Design, (in press). <https://doi.org/10.1111/joid.12089>

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connections



4. Lachance, C. C., Jurkowski, M. P., Dymarz, A. C., Robinovitch, S. N., Feldman, F., Laing, A. C., & Mackey, D. C. (2017). Compliant flooring to prevent fall-related injuries in older adults: A scoping review of biomechanical efficacy, clinical effectiveness, cost-effectiveness, and workplace safety. *PLoS ONE*, 12(2), 1–23. <https://doi.org/10.1371/journal.pone.0171652>
5. Mobley, C., Leigh, K., & Malinin, L. (2017). Examining Relationships between Physical Environments and Behaviors of Residents with Dementia in a Retrofit Special Care Unit. *Journal of Interior Design*, (in press). <https://doi.org/10.1111/joid.12094>
6. Platt, L. S., Bosch, S. J., & Kim, D. (2017). Toward a Framework for Designing Person-Centered Mental Health Interiors for Veterans. *Journal of Interior Design*, (in press). <https://doi.org/10.1111/joid.12095>
7. Quan, X., Joseph, A., & Nanda, U. (2017). Developing Evidence-based Tools for Designing and Evaluating Hospital Inpatient Rooms. *Journal of Interior Design*, (in press). <https://doi.org/10.1111/joid.12091>
8. Wang, Z., & Puksza, M. (2017). Patient Needs and Environments for Cancer Infusion Treatment. *Journal of Interior Design*, (in press). <https://doi.org/10.1111/joid.12096>
9. Weinberger, N., Butler, A. G., Schumacher, P. A., Brown, R. L., & McGee, B. (2017). Child Life Specialists' Evaluation of Hospital Playroom Design: A Mixed Method Inquiry. *Journal of Interior Design*, (in press). <https://doi.org/10.1111/joid.12097>
10. Zuo, Q., & MaloneBeach, E. E. (2017). Assessing Staff Satisfaction with Indoor Environmental Quality in Assisted Living Facilities. *Journal of Interior Design*, (in press). <https://doi.org/10.1111/joid.12092>

Safety

11. Bischoff, P., Kubilay, N. Z., Allegranzi, B., Egger, M., & Gastmeier, P. (2017). Effect of laminar airflow ventilation on surgical site infections: a systematic review and meta-analysis. *The Lancet Infectious Diseases*, in press. [https://doi.org/10.1016/S1473-3099\(17\)30059-2](https://doi.org/10.1016/S1473-3099(17)30059-2)
12. Yang, Y., Lai, A. C. K., & Wu, C. (2016). Study on the disinfection efficiency of multiple upper-room ultraviolet germicidal fixtures system on airborne microorganisms. *Building and Environment*, 103, 99–110. <https://doi.org/10.1016/j.buildenv.2016.04.004>
13. Hinsla-Leasure, S. M., Nartey, Q., Vaverka, J., & Schmidt, M. G. (2016). Copper alloy surfaces sustain terminal cleaning levels in a rural hospital. *American Journal of Infection Control*, 44(11), e195–e203. <https://doi.org/10.1016/j.ajic.2016.06.033>
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15. Janke, C., Heim, K. M., Steiner, F., Massaquoi, M., Gbanya, M. Z., Frey, C., & Froeschl, G. (2017). Beyond Ebola treatment units: severe infection temporary treatment units as an essential element of Ebola case management during an outbreak. *BMC Infectious Diseases*, 17(1), 124. <https://doi.org/10.1186/s12879-017-2235-x>
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17. Pati, D., Valipoor, S., Cloutier, A., Yang, J., Freier, P., Harvey, T. E., & Lee, J. (2017). Physical Design Factors Contributing to Patient Falls. *Journal of Patient Safety*, (in press). <https://doi.org/10.1097/PTS.0000000000000339>
18. Sommerstein, R., Jenni, H., Carrel, T., & Marschall, J. (2016). Cardiac surgery, nosocomial infection, and the built environment. *The Journal of Hospital Infection*, 93(3), 240–241. <https://doi.org/10.1016/j.jhin.2016.03.026>

Design Process

19. Cunningham, C. E., Niccols, A., Rimas, H., Robicheau, R., Anderson, C., & DeVries, B. (2017). Using a Discrete Choice Conjoint Experiment to Engage Stakeholders in the Design of an Outpatient Children's Health Center. *HERD: Health Environments Research & Design Journal*, (in press), 1–16. <https://doi.org/10.1177/1937586716686350>
20. Elf, M., Nordin, S., Wijk, H., & McKee, K. J. (2017). A systematic review of the psychometric properties of instruments for assessing the quality of the physical environment in healthcare. *Journal of Advanced Nursing*, in press. <https://doi.org/10.1111/jan.13281>
21. Cummins, M., & Ready, D. (2016). Role of the Hospital Environment in Norovirus Containment. *Journal of Infectious Diseases*, 213(suppl 1), S12–S14. <https://doi.org/10.1093/infdis/jiv529>
22. Grey, T., Kennelly, S., de Freine, P., Mahon, S., Mannion, V., & O'Neill, D. (2017). Towards a building typology and terminology for Irish hospitals. *Irish Journal of Medical Science*, (in press). <https://doi.org/10.1007/s11845-016-1537-0>
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24. Kpamma, Z. E., Adjei-Kumi, T., Ayarkwa, J., & Adinyira, E. (2017). Participatory design, wicked problems, choosing by advantages. *Engineering, Construction and Architectural Management*, (in press). <https://doi.org/10.1108/ECAM-06-2015-0085>
25. Mackrill, J., Marshall, P., Payne, S. R., Dimitrokalı, E., & Cain, R. (2017). Using a bespoke situated digital kiosk to encourage user participation in healthcare environment design. *Applied Ergonomics*, 59, Part A, 342–356. <https://doi.org/10.1016/j.apergo.2016.08.005>



Special Populations (e.g., Elders, Neonates, Mental Health)

25. Aburas, R., Pati, D., Casanova, R., & Adams, N. G. (2017). The Influence of Nature Stimulus in Enhancing the Birth Experience. *HERD: Health Environments Research & Design Journal*, 10(2), 81–100.
<https://doi.org/10.1177/1937586716665581>
26. Barton, S. A., & White, R. D. (2016). Advancing NICU Care with a New Multi-purpose Room Concept. *Special Issues on NICU Design and Infant Mental Health in the Intensive Care Unit and Beyond*, 16(4), 222–224.
<https://doi.org/10.1053/j.nainr.2016.09.010>
27. Chong, Y. E., Shukor, A., & Faris, S. (2016). Healing gardens for the elderly: a review of design guidelines and the comparisons with the existing Senior Outdoor Survey (SOS) tool. *ALAM CIPTA, International Journal on Sustainable Tropical Design Research & Practice*, 9(2), 19–25.
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29. Kalantari, S., & Snell, R. (2017). Post-Occupancy Evaluation of a Mental Healthcare Facility Based on Staff Perceptions of Design Innovations. *HERD: Health Environments Research & Design Journal*, (in press).
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30. Nordin, S., McKee, K., Wijk, H., & Elf, M. (2017). Exploring Environmental Variation in Residential Care Facilities for Older People. *HERD: Health Environments Research & Design Journal*, 10(2), 49–65.
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Other

33. Ahmadi-Javid, A., Seyedi, P., & Syam, S. S. (2017). A survey of healthcare facility location. *Computers & Operations Research*, 79, 223–263.
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<https://doi.org/10.1016/j.ajem.2017.01.027>



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