



RESEARCH IN A SNAP

OVERVIEW

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

Knowledge Repository News

Happy New Year! We know the holidays often lead to over-indulgence and January becomes the month to reset. Maybe it's time to make one more resolution that's easy to keep. Find one new interesting research paper to read every two months. Don't forget to give your brain a workout, too. We'll make it easy with a summary of all of the citations that have been added to the Knowledge Repository, including links to the source publication. There are nearly 70 new additions included in this "Snap" to round out 2017.

For starters, you might want to take a look at some of the new outpatient resources - the open access systematic review of best practices for [integrating computerized systems into the exam room](#) by Patel, et al. in the Journal of the American Medical Informatics Association or the open access paper looking at [the design placebo effect](#) by Rehn & Schuster. Log in, and bookmark the citations in the Knowledge Repository that interest you so you can go back and reference them at any time. Happy reading!

(Published ahead of print "in press" will be updated as volume and page information becomes available.)

November-December 2017

Literature Reviews (Varied Topics)

1. Chaudhury, H., Cooke, H. A., Cowie, H., & Razaghi, L. (2017). The Influence of the Physical Environment on Residents With Dementia in Long-Term Care Settings: A Review of the Empirical Literature. *The Gerontologist*. <https://doi.org/10.1093/geront/gnw259>
2. Horsten, S., Reinke, L., Absalom, A. R., & Tulleken, J. E. (2017). Systematic review of the effects of intensive-care-unit noise on sleep of healthy subjects and the critically ill. *British Journal of Anaesthesia*, in press. <https://doi.org/10.1016/j.bja.2017.09.006>
3. Nimlyat, P. S., & Kandar, M. Z. (2015). Appraisal of indoor environmental quality (IEQ) in healthcare facilities: A literature review. *Sustainable Cities and Society*, 17(Supplement C), 61-68. <https://doi.org/10.1016/j.scs.2015.04.002>
4. Patel, M. R., Vichich, J., Lang, I., Lin, J., & Zheng, K. (2017). Developing an evidence base of best practices for integrating computerized systems into the exam room: a systematic review. *Journal of the American Medical Informatics Association*, 24(e1), e207-e215. <https://doi.org/10.1093/jamia/ocw121>

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RESEARCH-DESIGN
CONNECTIONS



5. Souman, J. L., Tinga, A. M., te Pas, S. F., van Ee, R., & Vlaskamp, B. N. S. (2018). Acute alerting effects of light: A systematic literature review. *Behavioural Brain Research*, 337(Supplement C), 228–239. <https://doi.org/10.1016/j.bbr.2017.09.016>

Outpatient

6. González-Martínez, E., Bangerter, A., & Lê Van, K. (2017). Building Situation Awareness on the Move: Staff Monitoring Behavior in Clinic Corridors. *Qualitative Health Research*, 27(14), 2244–2257. <https://doi.org/10.1177/1049732317728485>
7. Morris, M. A., Maragh-Bass, A. C., Griffin, J. M., Rutten, L. J. F., Lagu, T., & Phelan, S. (2017). Use of Accessible Examination Tables in the Primary Care Setting: A Survey of Physical Evaluations and Patient Attitudes. *Journal Of General Internal Medicine*, 32(12), 1342–1348. <https://doi.org/10.1007/s11606-017-4155-2>
8. Rehn, J., & Schuster, K. (2017). Clinic Design as Placebo-Using Design to Promote Healing and Support Treatments. *Behavioral Sciences*, 7(4). <https://doi.org/10.3390/bs7040077>
9. Short, E. J., Reay, S., & Gilderdale, P. (2017). Wayfinding for health seeking: Exploring how hospital wayfinding can employ communication design to improve the outpatient experience. *The Design Journal*, 20(sup1), S2551–S2568. <https://doi.org/10.1080/14606925.2017.1352767>
10. Vahdat, A., Griffin, J., & Stahl, J. E. (2017). Decreasing patient length of stay via new flexible exam room allocation policies in ambulatory care clinics. *Health Care Management Science*. <https://doi.org/10.1007/s10729-017-9407-5>
11. Zhao, Y., & Mourshed, M. (2017). Patients' Perspectives on the Design of Hospital Outpatient Areas. *Buildings*, 7(4), 117. <https://doi.org/10.3390/buildings7040117>
12. Rathore, M. H., Jackson, M. A., & Committee on Infectious Diseases. (2017). Infection Prevention and Control in Pediatric Ambulatory Settings. *Pediatrics*, e20172857. <https://doi.org/10.1542/peds.2017-2857>

Pediatric/NICU/Birthing

13. Curtis, P., & Northcott, A. (2017). The impact of single and shared rooms on family-centred care in children's hospitals. *Journal of Clinical Nursing*, 28(11–12), 1584–1596. <https://doi.org/10.1111/jocn.13485>
14. Howard, E. D. (2017). Optimizing the Birth Environment With Evidence-Based Design. *Journal of Perinatal & Neonatal Nursing*, 31(4), 290–293. <https://doi.org/10.1097/JPN.0000000000000287>
15. Smith, T. J. (2016). Occupancy and patient care quality benefits of private room relative to multi-bed patient room designs for five different children's hospital intensive and intermediate care units. *Work*, 54(4), 853–872. <https://doi.org/10.3233/WOR-162358>



16. Vohr, B., McGowan, E., McKinley, L., Tucker, R., Keszler, L., & Alksninis, B. (2017). Differential Effects of the Single-Family Room Neonatal Intensive Care Unit on 18- to 24-Month Bayley Scores of Preterm Infants. *The Journal of Pediatrics*, 185(e1), 42–48. <https://doi.org/10.1016/j.jpeds.2017.01.056>

Other Specialty Environments

17. Benitez, G. B., Fogliatto, F. S., Cardoso, R. B., Torres, F. S., Faccin, C. S., & Dora, J. M. (2017). Systematic Layout Planning of a Radiology Reporting Area to Optimize Radiologists' Performance. *Journal of Digital Imaging*, in press. <https://doi.org/10.1007/s10278-017-0036-9>
18. Day, J. (2017). Inpatient Dialysis Unit Project Development: Redesigning Acute Hemodialysis Care. *Nephrology Nursing Journal*, 44(3), 251–255.
19. Leccese, F., Salvadori, G., Montagnani, C., Ciconi, A., & Rocca, M. (2017). Lighting assessment of ergonomic workstation for radio diagnostic reporting. *International Journal of Industrial Ergonomics*, 57(Supplement C), 42–54. <https://doi.org/10.1016/j.ergon.2016.11.005>
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Sound and Light

22. Knauert, M., Jeon, S., Murphy, T. E., Yaggi, H. K., Pisani, M. A., & Redeker, N. S. (2016). Comparing average levels and peak occurrence of overnight sound in the medical intensive care unit on A-weighted and C-weighted decibel scales. *Journal of Critical Care*, 36(Supplement C), 1–7. <https://doi.org/10.1016/j.jcrc.2016.06.005>
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24. Engwall, M., Fridh, I., Jutengren, G., Bergbom, I., Sterner, A., & Lindahl, B. (2017). The effect of cycled lighting in the intensive care unit on sleep, activity and physiological parameters: A pilot study. *Intensive & Critical Care Nursing*, 41, 26–32. <https://doi.org/10.1016/j.iccn.2017.01.009>
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Building Systems (Air Quality, etc.)/Facilities Management

32. Abdellah, R. H., Nasid Masrom, M. A., Chen, G. K., Mohamed, S., & Omar, R. (2017). The potential of net zero energy buildings (NZEBs) concept at design stage for healthcare buildings towards sustainable development. In *IOP Conference Series: Materials Science and Engineering* (Vol. 271, pp. 1–9). Malaysia: IOP Science. <https://doi.org/10.1088/1757-899X/271/1/012021>
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Design Process

35. Annemans, M., Stam, L., Coenen, J., & Heylighen, A. (2017). Informing hospital design through research on patient experience. *The Design Journal*, 20(sup1), S2389–S2396. <https://doi.org/10.1080/14606925.2017.1352753>
36. Collinge, W. H., & Harty, C. F. (2014). Stakeholder interpretations of design: Semiotic insights into the briefing process. *Construction Management and Economics*, 32(7–8), 760–772. <https://doi.org/10.1080/01446193.2014.894247>
37. Johnson, K., Mazur, L. M., Chadwick, J., Pooya, P., Amos, A., & McCreery, J. (2017). Integrating Lean Exploration Loops Into Healthcare Facility Design: Schematic Phase. *HERD: Health Environments Research & Design Journal*, 10(3), 131–141. <https://doi.org/10.1177/1937586716673830>
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39. Reay, S., Collier, G., Kennedy-Good, J., Old, A., Douglas, R., & Bill, A. (2017). Designing the future of healthcare together: prototyping a hospital co-design space. *CoDesign*, 13(4), 227–244. <https://doi.org/10.1080/15710882.2016.1160127>
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Research Methodology

41. McLaughlan, R., & Pert, A. (2017). Evidence and speculation: Reimagining approaches to architecture and research within the paediatric hospital. *Medical Humanities*, In press. <https://doi.org/10.1136/medhum-2017-011285>
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Infection Control

43. Bing-Yuan, Zhang, Y.-H., Leung, N. H. L., Cowling, B. J., & Yang, Z.-F. (2017). Role of Viral Bioaerosols in Nosocomial Infections and Measures for Prevention and Control. *Journal of Aerosol Science*, in press. <https://doi.org/10.1016/j.jaerosci.2017.11.011>



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Other Safety Topics

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53. Perkins, C., Beecher, D., Aberg, D. C., Edwards, P., & Tilley, N. (2017). Personal security alarms for the prevention of assaults against healthcare staff. *Crime Science*, 6, 11. <https://doi.org/10.1186/s40163-017-0073-1>



Other

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60. Hanada, E., Ishida, K., & Kudou, T. (2017). Electromagnetic Interference with Wireless Communication in Hospitals Newly Identified Problems with Medical Telemeter Systems. In *XXIV International Conference on Electromagnetic Disturbances* (pp. 38–40). Białystok, Poland.
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