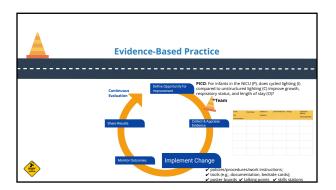
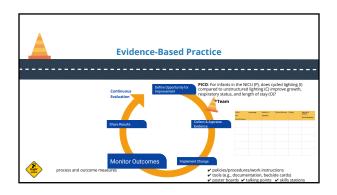
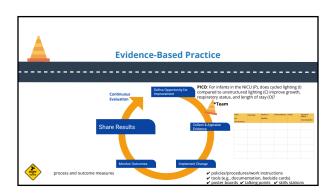


Author Year Level of Evidence	Study Design	Sample (n=) Population	Outcome Measures	Findings	Appraisal of Evidence Clinical Application

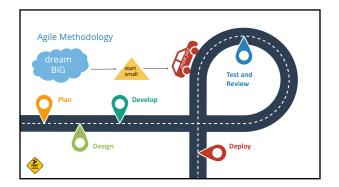
Author Year Level of Evidence	Study Design Intervention		Collect Eviden	Outcome Measures & Appraise ce	Findings	Appraisal of Evidence Clinical Application
Marzouk, et al. 2019 Moderate https://doi.org/10.33545/26643885 2019.vz.ita.23	RCT in a single unit Intervention - cycled lighting (12 hr light during day; 12 h dark during night) Control - 24 h light	n = 40 preterm infants > 20 - cycled lighting > 20 - continuous lighting preterm infants in NICU		weight cardiorespiratory function (HR, RR, SpOZ) duration of gavage feeding and time to oral feeding length of stay	improved weight and cardiorespiratory function for infants who received cycled lighting	small study with good potential for replicability cycled lighting should be considered as part of developmental care for preterm infants
Morag & Olhsson 2016 High https://doi.org/90.1002/14651858.C00 069 82.pub4	Systematic Review 12 hr light/12 hr dark	9 RCTs and quasi-randomised trials - 544 infants		weight neurodevelopmental outcomes (e.g., sleep, stress, ROP, etc) length of stay	minimal statistical significance but findings leaned toward improved outcomes	quality of evidence of the studies included was low overall, but results favor cycled lighting
Vasquez-Ruiz, et al. 2014 High https://doi.org/10.1006/j.earhumdev2 01.404.015	RCT light/dark cycles using a helmet	n = 38 infants ≥ 34 wk infants in NICU		weight time to discharge	improved physiological development, rapid weight gain, and decreased hospital discharge time	small study with good potential for replicability cycled lighting should be considered as part of developmental care for preterm infants
Zores-Koenig, et al. 2020 Moderate https://doi.org/90.1111/aps.15173	Comprehensive Literature Review neonatal light environment considerations	31 studies		practical recommendations (general principles and applications) of neonatal light environment with various outcomes	light should not exceed 100 lux; light changes should be gradual; provide light protection for all infants	achieved aim of identifyin practical use of light the light environment can impact the experience of infants, parents, and



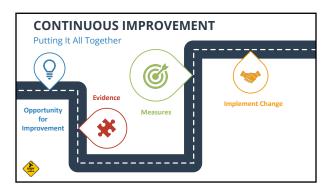












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