Nurses from radiation oncology, ambulatory infusion, and inpatient oncology units perceived an increase in skin toxicities in patients receiving chemoradiation within their respective clinical settings. The group formed a skin care task force (SCTF) and was joined by a nurse practitioner from the ambulatory burn clinic who had previously consulted on patients with treatment-related toxicities. The SCTF’s preliminary work identified several areas for improvement. Nurses were using a variety of tools from the Radiation Therapy Oncology Group (RTOG) and National Cancer Institute (NCI), as well as descriptive documentation, to measure and describe grades of toxicity, including the RTOG skin toxicity tool and the NCI’s Common Terminology Criteria for Adverse Events (CTCAE), version 3.0.

Current evidence for the management of radiation skin toxicities demonstrates equivocal outcomes using a variety of interventions, leaving substantial gaps in knowledge. Skin toxicities can lead to treatment delays, infection, pain, and increased costs for the patient. Patients with head and neck cancers receiving chemoradiation (N = 100), a population particularly vulnerable to disruptions in skin integrity, were enrolled into a prospective, descriptive study. Data collection was conducted and photographs were taken at baseline and weekly throughout treatment. Patients received skin care kits, instructions, and a diary to record adherence. Skin toxicity was measured and validated by at least three observers using serial photographs with 100% interrater agreement. Data were analyzed using descriptive statistics, graphs, and bivariate analysis. Adherence to both washing and moisturizing was consistently high. Although a correlation existed between the radiation dose and skin toxicity at week 6, no correlation existed between skin toxicity and adherence. Given the rate of grade 3 toxicities at week 6 and product costs, this proved to be an affordable regimen to which patients could easily adhere. Positive patient outcomes can be promoted through teaching and reinforcement of self-care measures to reduce skin toxicity.