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Using Child Life and Facility Dogs to Decrease Pediatric Life during Painful Procedures

Ali Spikestein^{*}

Department of the Child Life and Creative Arts Therapy, The Mount Sinai Kravis Children's Hospital, New York, USA

Description

The importance of the study, "Impact of Facility Dog and Certified Child Life Specialist Dyad on Children's Pain and Anxiety during Needlestick Procedures in a Pediatric Hematology Oncology Clinic Setting," is clear given the breadth of research done on the impact of frequent painful procedures and treatments on pediatric hematology oncology patients and their families[1-3]. The results of this study show a statistically significant decrease in patient reported pain in the group which included the facility dog. The impact of these results cross many disciplines and provide an opportunity to explo non-pharmacological pain management interventions can del eas pain and anxiety during pediatric hematology/oncology treatments. There are many aspects of this study that contribute to it being impactful in the pediatric hematology oncology life and Anin I Assisted Therapy (AAT) fields including the use of ertified Chil Life Specialist (CCLS) facility dog dyad impact needle sticks procedures on pediatric hematology on lie potential impact of its secondar monage on impact of these supportive services on ambulating workflow.

dyad

Novelty of a CCLS and facility

The inclusion of a CCLS and full-time ty dog make this article unique. In addition, it is the first study of it kind to incorporate any animal into the lestick procedures with a goal of pain management. nstarch on AAT is compelling given its details on Although the ph t pain, stress, anxiety and fear, and decreases reducing experience ress formones, these studies have been in essure and dult populatio and volunteer pet therapy dyads [4-12]. imited to e impact of a clinician trained to work with pediatric hematology orporating a full-time facility dog is a novel to the available literature. Specifically, CCLSs have been conc using evidence-based interventions including play, docume preparation and education with the goal of increasing coping, and AAT is a new innovative tool being added to this skillset [13-15]. Child life programs in many pediatric hospitals are incorporating fulltime facility dogs into their clinical teams, aimed at performing goalbased interventions to help meet patient treatment goals. CCLSs design and implement a variety of therapeutic interventions to help alleviate the pain and distress related to these procedures, and as AAT

is a growing tool for this profession studies such as this help to document its clinical impact.

Needlestick procedution pediatric nematology oncology

in their illness, patients in the to the nature and con D ratric hematology oncology clinic undergo frequent painful pe n dlestick procedures. Both the anticipation of venipuncture and the ciated pain cause extreme distress in pediatric populations [16]. а ell documented in the literature that needlesticks are one of the lt rees of prediatric pain and distress [17,18]. Overall, patient main nety scores self-reported by patients and reported by pain and regivers were lower among patients working with the facility dog. ted patient pain was substantially lower in the intervention group indicating that the presence of a facility dog during a needlestick procedure is an effective tool in reducing patient pain. This is a substantial finding as self-reported patient pain in pediatrics is recommended as the primary source of evidence around pain intensity and is often considered the "gold standard" of pain assessment when clinical application gives consideration to age and developmental understanding of pain scales [19-21].

Secondary outcomes

Potential implications on ambulatory flow: Patients in this study receiving the facility dog intervention required fewer needlesticks to successfully complete their procedure compared to patients who did not receive the facility intervention. Twelve percent of the control group required two or more needlestick attempts, with a maximum number of five attempts. Only 5.6 percent of the intervention group required two or more needlestick attempts with a maximum of three attempts. Minimizing needlesticks through a CCLS and facility dog dyad's intervention highlights the importance of this modality during invasive procedures. Fewer needlestick attempts may lead to less distress, faster procedures, lower healthcare worker distress and higher patient satisfaction. During procedures in pediatric clinics, additional staff members are sometimes needed to help a child stay still [22]. In this study, patients in the intervention group required fewer staff members present to successfully complete the procedure as compared to patients in the control group. This was specifically true for patients ages. This is important as it indicates improved coping in an age group that commonly experiences distress during

*Address for Correspondence: Dr. Ali Spikestein, Department of the Child Life and Creative Arts Therapy, The Mount Sinai Kravis Children's Hospital, New York, USA; E-mail: ali.spikestein@mountsinai.org

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procedures [23]. Overall, decreased staff presence during the procedure indicates better patient coping while supporting smoother clinic flow and efficiency. Decreased staff presence may also lower financial costs for an ambulatory setting if fewer staff members are needed. Both of these secondary findings present promising work, but require additional research.

Future research on AAT in pediatrics

Future research could incorporate a broader eligibility window and utilize multisite models for a more comprehensive approach. Studies might also consider a time-series research design in order to observe patient pain and anxiety during two procedures, one with the facility dog and one without the facility dog, to precisely quantify the impact of the facility dog on a patient's specific procedural outcomes. Components of this study's design such as a large sample size, observation of individual patient baseline, and assessing time to return to baseline serve to minimize the impact of this limitation. Future research on CCLS interventions utilizing facility dogs might extrapolate on these significant findings by evaluating other pain management interventions. As trained professionals who provide individualized care to promote coping and resilience, CCLSs are uniquely positioned to provide AAT during invasive procedures and evaluate their impact. This study underscores the significant child life and facility dog programs within pediatric hospitals It highlights the direct correlation between favorable clinical outcom and the integration of facility dogs into the skill set of Certified Chil Life Specialists (CCLSs) in pediatric hematology settings.

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