

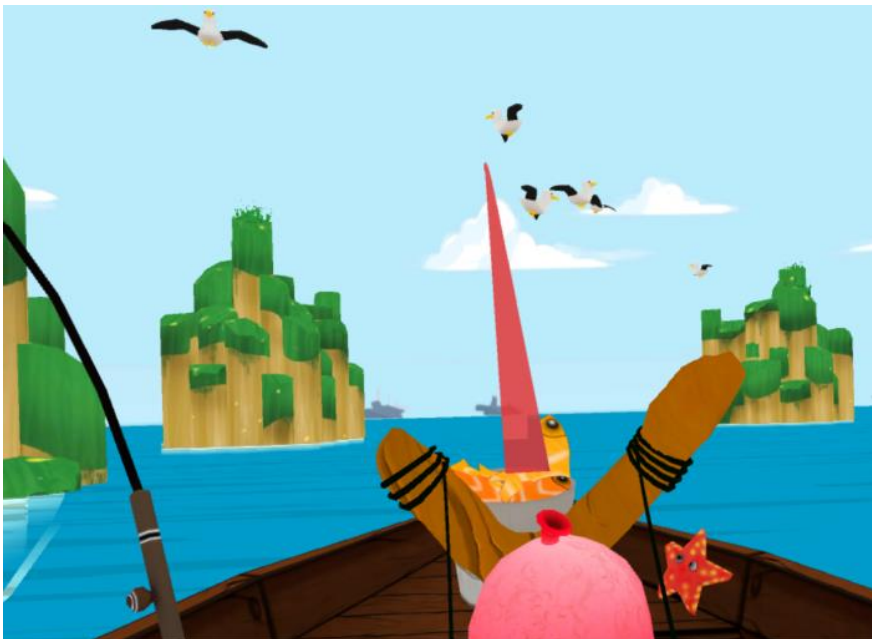
Introduction

Jessica Nijs

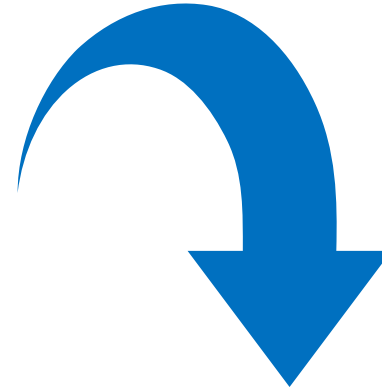
Søren Walther-Larsen

Virtual Reality
Augmented Reality





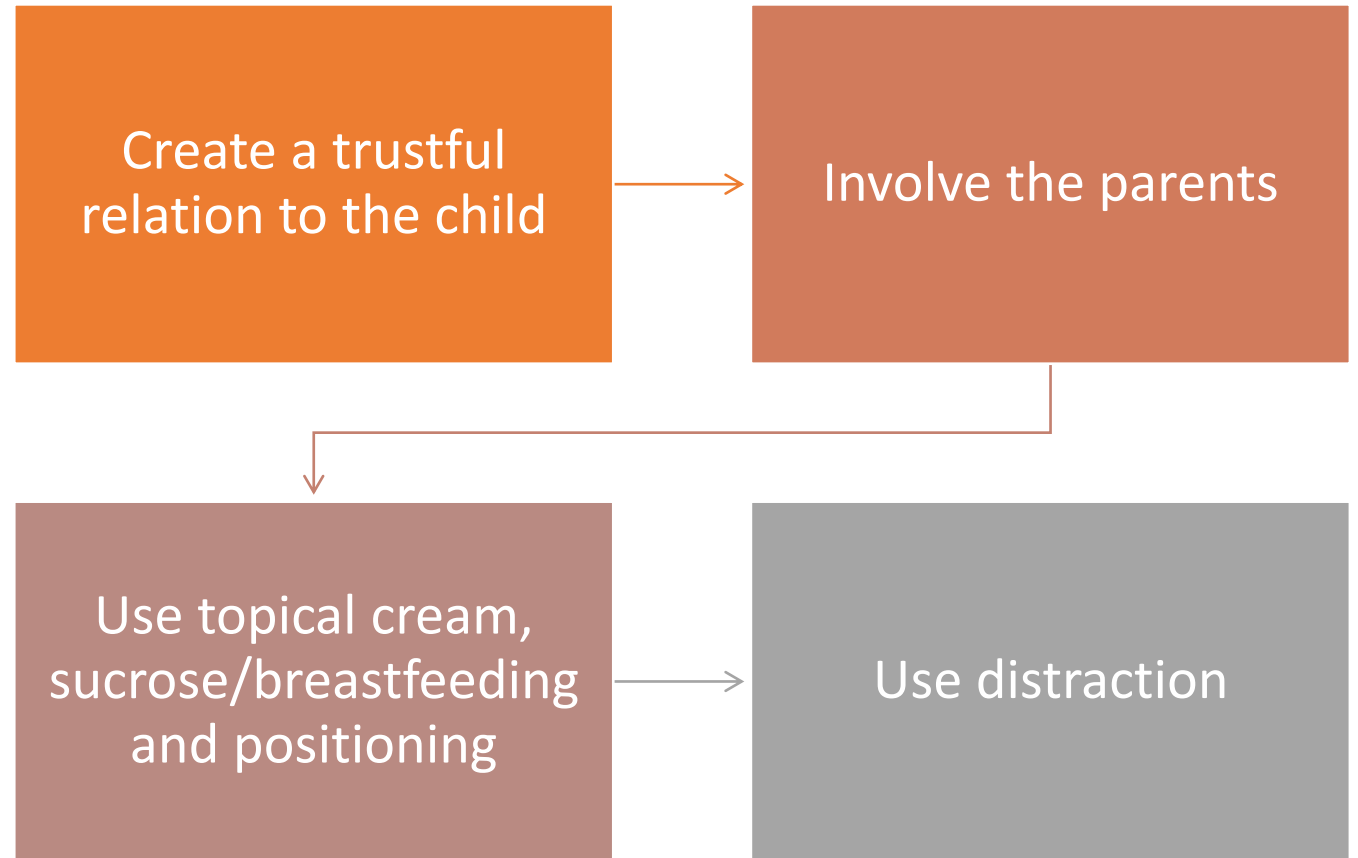
VR/AR for procedural pain relief –
Why? When? How?



***We want to make all
needle procedures
fun and painfree!***

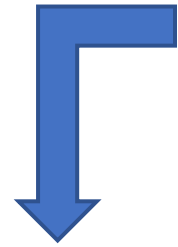


Strategies for medical procedures



- (1) Krauss BA, Krauss BS. Managing the Frightened Child. *Ann Emerg Med*. 2019
- (2) Leroy et al. Beyond the drugs: nonpharmacologic strategies to optimize procedural care in children. *Curr Opin Anaesthesiol*. 2016
- (3) Friedrichsdorf SJ. Four steps to eliminate or reduce pain in children caused by needles. *Pain Manag*. 2017
- (4) Birnie KA et al. Psychological interventions for needle-related procedural pain and distress in children and adolescents. *Cochrane Database Syst Rev*. 2018

Pain- and distress reduction by distraction



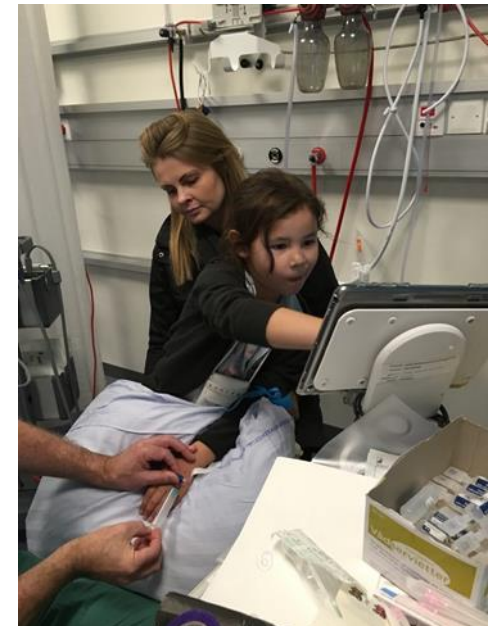
We can
adjust our
attention



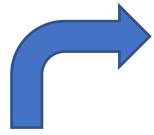
Leaves less
capacitet for pain
perception



Reducing procedural
pain and anxiety



Pain- and distress reduction by distraction



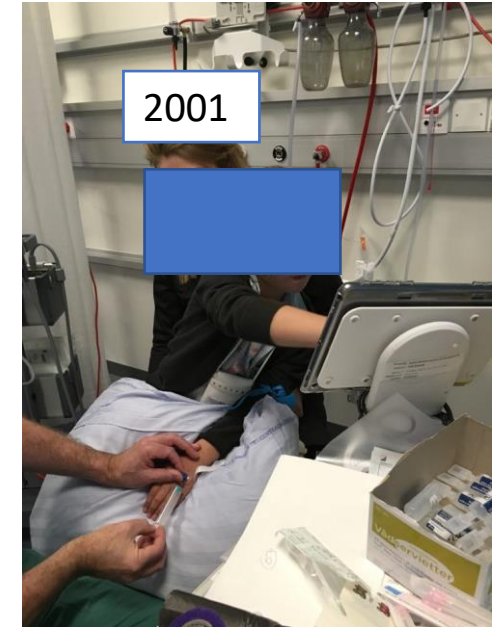
1968



1994



1957



2001



Virtual Reality
Augmented Reality

