

Abstract

Title: The influence of woman's mastectomy on breathing movements

Objectives: The aim of this work is to investigate influence of total mastectomy on range of breathing motion. We compare women after mastectomy and healthy women. The next goal is to investigate presence of asymmetry these movements between surgical and nonsurgical side. We again compare results of women after mastectomy and healthy women. I would like to point to need of care for the scar, thanks to which we can minimize its negative effects.

Methods: In our thesis we used optoelectronic kinematic analyzer Qualisys to measure range of motion of thoracic and abdominal wall during breathing. We made measurement during quiet and deep breathing. More facts about patient's condition we obtained through kinesiology examination.

Results: We found out that total mastectomy have an effect on range of breathing motion in women after this operation. The surgery side show lower range of motion during breathing. It means that we found presence of asymmetry theses movements between surgical and nonsurgical side. The biggest asymmetry was present in third line (cca level of fifth rib). These findings we can see during quiet and deep breathing and prove our claim about the need of care for scar.

Keywords: breathing movements, total mastectomy, breast cancer, scar, Qualisys