

O09 BREAST RESHAPING WITH AUTOLOGEOUS FAT MICRO GRAFTS COLLECTED BY WATERJET ASSISTED LIPOSUCTION

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BACKGROUND / OBJECTIVES: Body reshaping with autologous fat grafting is successfully performed for many years. Nevertheless collecting and preparing the fat is a time consuming procedure. The following method focuses on a quick and preserving fat cell harvesting to reshape the breast.

METHODS / TECHNIQUE: Fat is harvested with a water jet assisted Bodyjet system (Human Med Company, Germany) with tumescence solution using a specially designed fat collector, avoiding any centrifugation.

A prospective multi center clinical trial was designed. Excluding criteria for augmentation patients are smokers, obesity (BMI over 30) and genetical disposition for breast cancer. For breast reconstruction excluding criteria were tumor reoccurrence, smokers and obesity.

Preop and 6 months post op MRI of both breasts is performed, further clinical investigation and photo documentation on day 1 and 8, 4 weeks, 12 weeks and 6 months post op.

RESULTS / COMPLICATION: In 42 patients the harvested fat is transferred using the Coleman technique under local anaesthesia Lidocaine 1% with 10 cc syringes and 1mm cannulas.

The results show an approximate take up rate of 2/3 for transplanted fat grafts; negative side effects have currently not been observed. The main advantage is the time efficiency and the preserving way of harvesting the needed tissue under low pressure (-0,5 bar). The average time to transplant 200-250 cc of fat takes one and a half hour. Due to the lack of centrifugation a lot of time is saved. Fat aspirating, collecting and transplantation can be performed at the same time.

CONCLUSION: Water jet assisted aspirating helps a lot to save time in the fat harvesting step. Further studies must standardise the best conditions for the fat cells to survive.