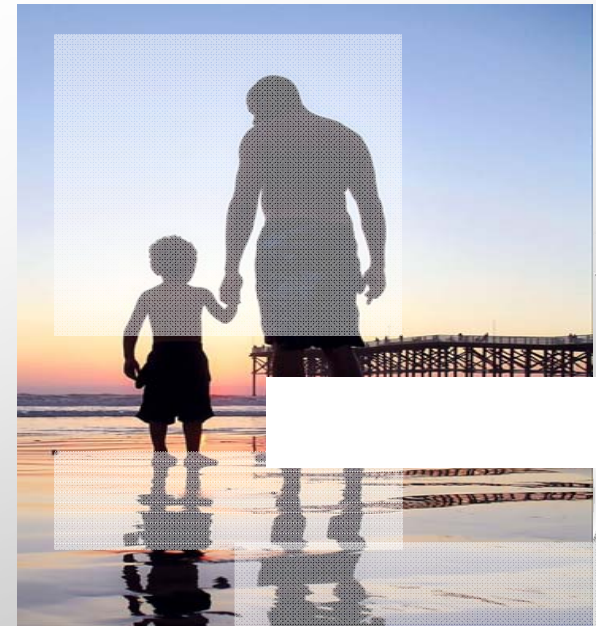


HOW ARE THE SURFACES AND SHAPE IMPORTANT TO PREVENT PRESSURE SORES?

MARTINO AVELLIS PT

ORMESA SRL

ITALY



34° International Seating Symposium – Vancouver (CAN)

RISKS

EXTRINSIC FACTOR

**What are the
factors on which
we can manage?**

INTRINSIC FACTOR

LEVEL OF RISK

EVALUATIONS

- *SUBJECT #1*
 - *FEMALE*
 - *AGE: 59*
 - *DIAGNOSIS: SUB ARACNOID HAEMORRAGIE AFTER BRAIN ANEURISMA FOLLOWED BY A NO RESPONSE PERIOD (OCCURRING ON JANUARY 2016)*
 - *WEIGHT: 45 KG*
 - *BRADEN SCORE: 14*
- *SUBJECT #2*
 - *MALE*
 - *AGE: 69*
 - *DIAGNOSIS: STROKE ISCHEMIC-HAEMORRAGIC FOLLOWED BY A NO RESPONSE PERIOD (OCCURRING ON JULY 2016)*
 - *WEIGHT: 78 KG*
 - *BRADEN SCORE: 13*

Assesment done in the Rehabilitation Department of Villa Beretta Institute, Valduce Hospital, Como (Italy)

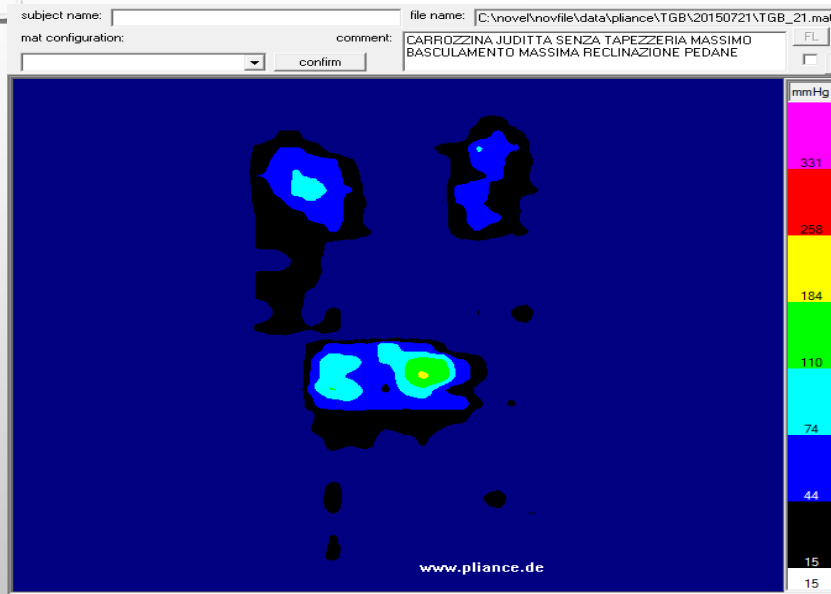
METHODS

SUBJECT # 1 AND SUBJECT # 2 (WITH AND WITHOUT UPHOLSTERY) SEATED ON THE WHEELCHAIR

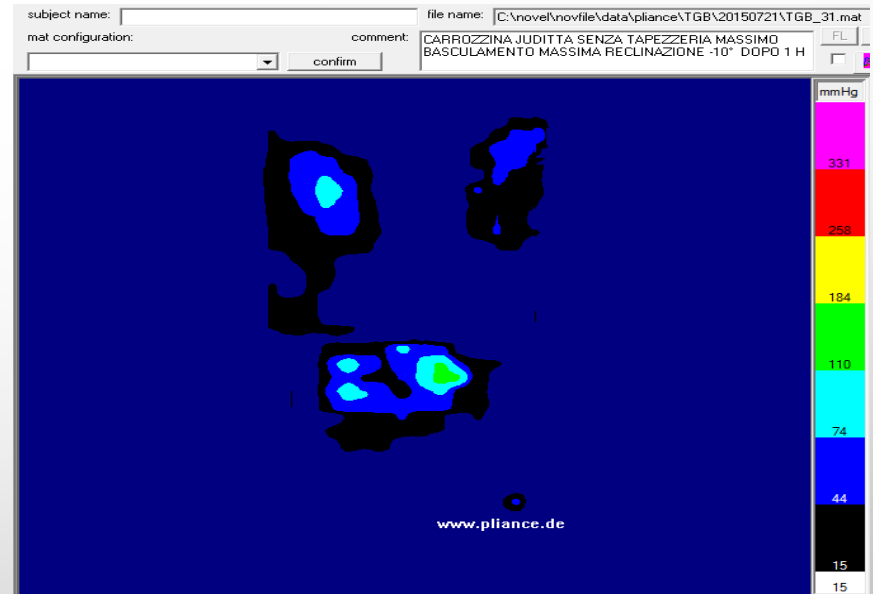
- *NO TILT IN SPACE*
- *20° OF TILTING*
- *MAX TILTING*
- *MAX TILTING AND BACKREST RECLINATION (36°)*
- *MAX TILTING AND BACKREST RECLINATION (36°), RISED LEGRESTS (-10°)*



RESULT



Picture 20 - Subject #2 without upholstery, max tilting, max backrest reclination and raised legrests



Picture 21 - Subject #2 without upholstery, max tilting, max backrest reclination and raised legrests after 1 hour

CONCLUSIONS

- *Good pressures distribution with no significant pressure increase under the ischial bones*
- *The upholstery grants more uniformity of the pressure concerning the whole back*
- *Without the upholstery the back in the middle is completely unloaded with no significant pressure increase on the scapular area*
- *The subject #1 (with a lighter weight) shows an optimal distribution of pressure throughout all recorded positions.*