

AXTAIR AUTOMORPHO

OBSERVATIONAL CONTROLLED STUDY ON THE EFFECTIVENESS AND TOLERANCE OF THE AXTAIR AUTOMORPHO MATTRESS IN HELPING TO PREVENT DECUBITUS ULCERS IN THE HOME CARE ENVIRONMENT

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Study performed by the Languedoc Roussillon Wounds and Healing Hospital-Community Network.

METHOD

MAIN OBJECTIVE: confirm the tolerance of the Axtair Automorpho by patients, their assistants and carers and the improvement in quality of life for the patient.

SECONDARY OBJECTIVE: assess the contribution to maintaining or improving the skin condition of people with reduced mobility presenting an assessed risk of pressure ulcer(s) due to changes in their health or pressure ulcers that have developed.

INCLUSION CRITERIA: adults, from young people through to elderly people, presenting a high risk of developing a pressure ulcer in a lying-down position according to the Norton Scale, and who are receiving home care, palliative care or are in an elderly care home.

STUDY LASTED: 1 year from 06/2005 to 10/2006. Assessment at D0, D1, D3, D10, D20, D≥31.

ASSESSMENT CRITERIA: tolerance (ergonomics, safety, environmental compatibility) and monitoring (disorders and associated conditions, skin condition (pressure ulcers: number, stage, location, progression), perception of comfort/well-being).

EQUIPMENT: AXTAIR AUTOMORPHO motorised air support

RESULTS

INCLUSION: 38 patients
AVERAGE AGE: 80 years old (40 < 105)
SEX-RATIO W/M: 2.77
INITIAL AVERAGE BMI: 20.82 [11.72 < 30.86]

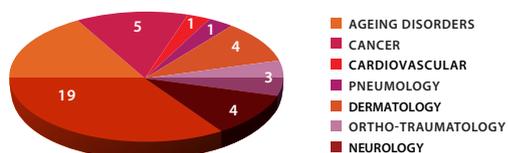
AVERAGE LENGTH OF TIME CONFINED TO BED: 20 hours/day (10 < 24)
DAILY AVERAGE of 4 changes in position
PATIENTS RAISED UP at least once a day

AVERAGE LENGTH OF TIME IN SITTING POSITION: 4 hours/day
HOME CARE/ELDERLY CARE HOME BREAKDOWN: 20/80
MONITORING ≥ 31 DAYS

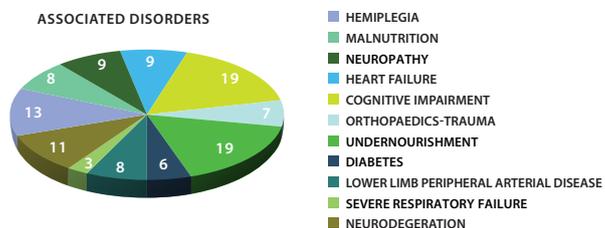
W/M: Woman/Man; BMI: Body-Mass Index.

TYPES OF DISORDER

MAIN DISORDERS

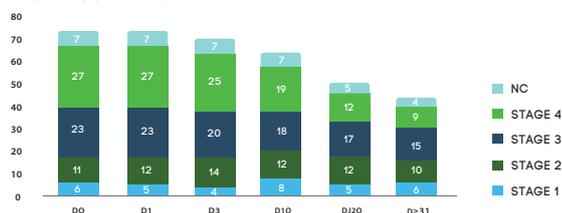


ASSOCIATED DISORDERS



PRESSURE ULCER PROGRESSION AND TYPES

BREAKDOWN PER STAGE



BREAKDOWN PER LOCATION

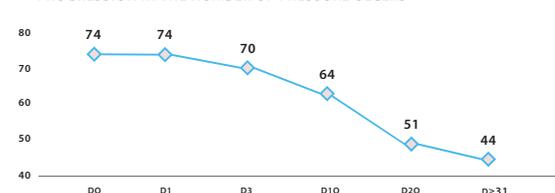


PROGRESSION IN THE CLINICAL AND WOUND CONDITION

MONITORING OF RISK LEVELS ACCORDING TO THE NORTON SCORE

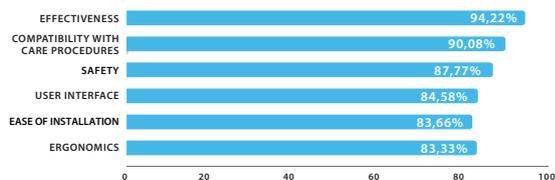


PROGRESSION IN THE NUMBER OF PRESSURE ULCERS



TOLERANCE LEVEL PER CRITERION

LEVEL OF SATISFACTION



PROGRESSION IN QUALITY OF LIFE

LEVEL OF SATISFACTION



CONCLUSION

The level of tolerance for the AXTAIR AUTOMORPHO motorised air support is compatible with the service expected of the home-care facility. The merits of an automatic system have been proven. The technical performance of the product presents specific merits in helping pressure ulcers that have developed up to stage 4 to heal. The quality of life for most of the patients receiving care was improved.