

# AXTAIR AUTOMORPHO

## ASSESSED EFFECTIVENESS OF THE MERITS OF THE AXTAIR AUTOMORPHO MATTRESS IN THE HEALING INITIATION OF PRESSURE ULCERS AT CONTACT POINTS IN PATIENTS FOR WHOM TREATMENT HAS FAILED IN THE PAST.

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Study sites: (1) Languedoc Roussillon Wounds and Healing Hospital-Community Network, (2) The Europe Hospitals, Brussels, (3) St Louis elderly care home (Vaucluse), (4) La Buissonnière elderly care home (Loire)

### METHOD

**MAIN OBJECTIVE:** confirm the benefit gained by using the Axtair Automorpho mattress in the healing initiation of pressure ulcers situated in contact areas, which are getting worse, in patients whose general clinical condition is changing for the better, for the worse or not at all.

**SECONDARY OBJECTIVE:** assess the product tolerance.

**INCLUSION CRITERIA:** people over the age of 18 presenting one or more pressure ulcers in contact areas, from stage 1 to 4, which are getting worse or not improving or presenting a deterioration in the healing and/or clinical condition. Norton Score < 15. Patients cared for by medical and allied healthcare team

**STUDY LASTED:** 11 months from 08/2007 to 07/2008. Assessment at D0, D10, D20, D30.

**ASSESSMENT CRITERIA:** effectiveness (condition of wound, measurements of volume and surface, distinction of viable (granulated) and non viable (necrotic, fibrin) tissue, proportion of exudate, clinical condition), tolerance (ergonomics, effectiveness, interface, safety), Comfort and Well-Being.

**EQUIPMENT:** AXTAIR AUTOMORPHO motorised air support.

### RESULTS

**INCLUSION:** 30 patients, 5 study drop-outs before D30

**AVERAGE AGE:** 78 years old (52 < 98)

**SEX-RATIO W/M:** 2.3

**INITIAL AVERAGE BMI:** 22.5 (13.8 < 42.2)

**INITIAL AVERAGE KARNOFSKY SCORE:** 36% (10% < 60%)

**AVERAGE NORTON SCORE:** 8.47 (5 < 15)

**INITIAL NUMBER OF PRESSURE ULCERS:** 48

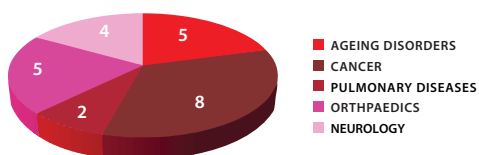
**AVERAGE RATE OF PRESSURE ULCERS:** 1.6 / PPU (1 < 3)

**HOME CARE/COMMUNITIES BREAKDOWN:** 40/60

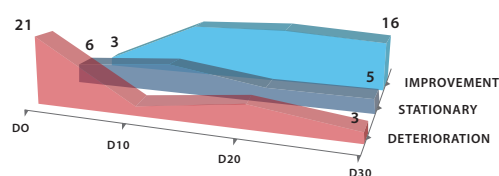
**30 DAY MONITORING**

W/M: Woman/Man; BMI: Body-Mass Index ; PPU: Patient Presenting one or more Pressure Ulcers.

#### TYPES OF DISORDER

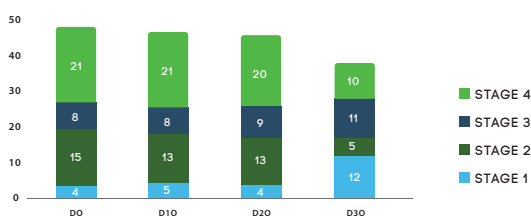


#### PROGRESSION IN THE PATIENTS CLINICAL CONDITION

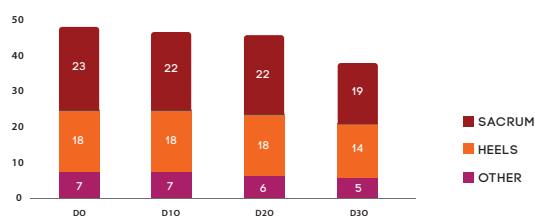


#### PRESSURE ULCER PROGRESSION AND TYPES

##### BREAKDOWN PER STAGE

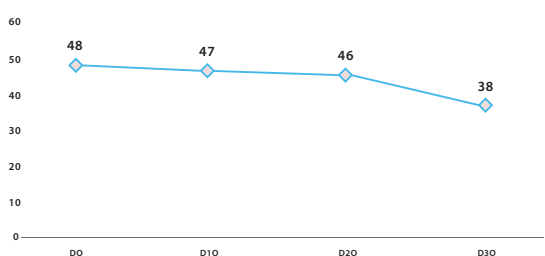


##### BREAKDOWN PER LOCATION

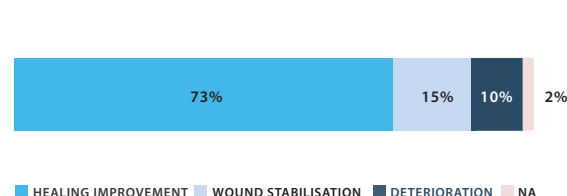


#### PROGRESSION IN CONDITION OF THE WOUND

##### PROGRESSION IN THE NUMBER OF PRESSURE ULCERS



##### HEALING PROGRESSION



### CONCLUSION

The AXTAIR AUTOMORPHO motorised air support contributed to the notable improvement in the healing process of sacro-coccygeal and ischiatic lesions. This process is assessed in daily surface and/or volume gain according to the respective methods of Kundin and Schubert (0.44 cm<sup>2</sup>/day and/or 0.86 cm<sup>3</sup>/day). At the end of the study, no new pressure ulcer was reported. The average level of satisfaction associated with use of the product is 5.5/6. The level of comfort felt ranges between 6 and 9 and the level of well-being between 7 and 9 on a scale of 1 to 10.