

NPUAP S3I Lifespan Evaluation Working Group Minutes

Meeting Place: Atlanta, GA

Meeting Date: Monday, October 28, 2002

1.0 Roll Call

Dave Ardis (M)
Mark Armstrong (M)
John Asturias (M)
Kathleen Baldwin (R)
Lydia Biggie (M)
Brian Conway (M)
John Cramer (M)
Ron Dzedziula (M)
Charles Gokoo (M)
Scott Haynes (M)
Jeanne Perla (M)
Thomas Stephens (M)

Co-Consumer, CI-Clinician, HP-Healthcare provider, G-government, M-Manufacturer, R-researcher

2.0 Adoption of Agenda

The group agreed upon the following agenda:

- Introductions
- Review, correction, and acceptance of minutes from Atlanta meeting
- Las Vegas assignment reports
- Group discussion of committee assignment
- Work needed for next meeting.
- Adjournment

The morning group consisted of 12 individuals who introduced themselves.

3.0 Review, Correction, and Acceptance of the Minutes from the New Orleans Meeting

- The minutes of the previous meeting were reviewed.
- The group had an in depth discussion about the addendum sent out with the minutes by Kathy Baldwin from Stephen Springle. The contents of this addendum were presented as the scope of the groups work at the general session of this meeting. The group agreed to focus work around the 5 areas contained in that addendum.
- The minutes of the previous meeting were accepted without correction.

4.0 Las Vegas Assignment Report

- Literature search – Kathy Baldwin presented a synopsis of the literature review.
- Standards and Specifications – Lydia Biggie presented an in depth report on her search for standards and specifications.

5.0 Group Discussion of Committee Progress

- 5 areas were identified by Stephen for the focus of the groups work:
 - Life expectancy/fatigue/performance degradation/mode of failure
 - Measurement and construction
 - Fabric/covering performance and product protection
 - Information disclosure – product information sheet
 - Safety issues
- Each area was then discussed addressing 3 issues:
 - What we found in relation to the item that we can use
 - What parts of this are better addressed by other subcommittees or by other groups
 - What do we still need?
- Life expectancy/fatigue/performance degradation/mode of failure
 - Warranty issues – need definitions of Full, Partial, Limited, and Prorated from the terms and definitions group. Then we will be able to categorize warranties.
 - Weight capacity – is product specific and we need to obtain product specific information about maximum weight in kilograms and pounds.
 - Fatigue – does the material change over time?
 - Foam – ACTM Standard Part 7 – Roller Test; Cornell Mattress Test
 - Air – Air loss through material (there is an old standard on bedding)
 - Cover – Repeated washings; material data sheet; is there a standard?
 - Performance degradation
 - Air – pump failure; diaphragm failure; hose issues (kinks, elasticity, etc.); air exchange rate; fittings; static and dynamic mattress failure
 - Foam – firmness; height
 - Other issues – dynamic air; static air; foam hybrids
- Measurement and construction
 - Material construction – weight, size (length, width, height)
 - Biocompatibility – standard?
- Fabric/covering performance and product protection
 - Moisture-vapor transmission rate – standard?
 - Air permeability – standard?
 - Water entry pressure – standard?
- Information disclosure – product information sheet
 - Environmental factors affecting performance
 - User responsibilities – renter/purchaser responsibilities
 - Mechanical interventions that affect performance
 - Installation
 - Preventative maintenance
 - Cleaning
 - Storage
 - Settings – what do they equate to?
- Safety issues
 - Fire
 - Several flammability standards are available and are currently used by manufacturers – Cal 117, 129; Boston Fire Department; 16 CFR .1632 and .1610
 - No further work is required by this committee on this issue

- Electrical Shock
 - Standards are available – UL 544 which is old; and UL 2601-1 which is more current and may cover immunity and emissions issue; UL 60601 – immunity and emission?
 - We need to review UL 2601-1 to determine its usability for our group
- Infection Control
 - Several standards are available – CDC Guidelines; Mildew; Mil-standard 810E (F); MTD 508.4
 - These standards will be researched for the next meeting
- Entrapment
 - The Hospital Bed is addressing this issue
 - Work from that group should be reviewed and used by this group
- Delegated to others:
 - Terms and Definitions – standard definitions for full, partial, limited, and prorated warranties; definition of lateral rotation (cycle and degrees)
 - Tissue Interface – high, low, average peak pressures for alternating surfaces; heat-moisture dissipation; interface pressure.

6.0 Work Needed for Next Meeting

- Jeanne Perla – CDC Standards
- John Cramer – Mildew, Biocompatibility standard
- Ron Dziedziula – Weight capacity
- Dave Ardis, Ron Dziedziula, Charles Gokoo – Fatigue for air products and covers
- Kathy Baldwin – Develop a spreadsheet for what we have

7.0 Future Meetings

Next meeting to be held in Las Vegas at WOCN, Medtrade, Sunday, April 27th (precedes conference)

8.0 Numbering of Documents

The following documents were numbered and are included as part of a hard copy of this report:

None

9.0 Adjournment

Meeting adjourned at 4 p.m. for full committee meeting and report

10.0 Addendum Following Final Meeting of All Subcommittees

- The committee was asked to look at contamination issues and will do so. Ed Call will forward information to Kathy Baldwin about this.