

# **EXHIBIT 1**

VAMC – Milwaukee, 2 Part, 8 month study in nursing home  
and spinal cord unit

Clinical Results

Demographic Data

## EXHIBITS AND OTHER SUPPORTING CLINICAL DATA

EXHIBIT 1 – VAMC – Milwaukee, 2 Part, 8 month studying nursing home and spinal cord unit  
Clinical Results  
Demographic Data

EXHIBIT 2 – Results of a 6 month evaluation at a Colombia/HCA facility  
Study performed at a Colombia/HCA facility-outcome comparison chart –  
Figure 2-1, Figure 2-2

EXHIBIT 3 – California Department of Health Study  
Summary  
Individual patient data collected by participating facilities

EXHIBIT 4 – Other Supporting Clinical Data  
Letter from Grace Hospital – Detroit, MI.  
Letter from Orthopaedic Surgery at Washington Univ. Med. Ctr.  
Letter from Department of Veterans Affairs – Waukesha, WI 1992  
Letter from Department of Veterans Affairs – Milwaukee, WI 1993  
Letter from Habro Local Authority – Habro, Denmark  
Case Study at Gracelen terrace – Portland, OR  
Letter from The Brain Center Health & Retirement – Hickory, N. C.

EXHIBIT 5 – Technical Data  
Body Interface Pressure Point Tests – Twin City Testing Corporation (now Maxim technologies, Inc.) – 03/16/92 and 08/30/93  
Interface Pressure Assessment of Tempur-Med  
Cleaning Procedures for Tempur-Med Replacement Mattress  
Technical Report – Mattress Cover  
Foam Density Chart  
Client Reference List



## BODY INTERFACE PRESSURE POINT TEST

### INTRODUCTION:

This report documents the results of interface pressure point testing conducted on a Tempur-Med 6" hospital mattress submitted by Tempur-Pedic, Inc. on August 23, 1993. This work was requested by Mr. Bob Hoeller of Tempur-Pedic on August 17, 1993 with the testing conducted August 25-27, 1993.

### SUMMARY OF RESULTS:

Average Pressure (mm Hg) – All subjects (10)  
(Standard Deviation Values in Parentheses)

#### Tempur-Med 6"

Scapula (shoulder blade)	16 (4.4)
Sacral Prominence (tailbone)	20 (5.3)
Heel	26 (31.1)
Trochanter (hip)	39 (10.1)

It is the policy of Twin City Testing Corporation to use recognized test procedures whenever possible, such as ASTM, ANSI, ISO etc. To TCT's knowledge, no standard procedure exists for interface body contact pressure testing at the present time. The test method employed for this analysis is based on sound laboratory practice. Precautions were employed to position the sensor correctly in each case. The pressure monitor was calibrated before and after each series of measurements.

### SPECIMEN DESCRIPTION

The 6" thick Tempur-Med hospital replacement mattress consisted of a 3 1/2" thick – 100% visco-elastic open cell polyurethane foam laminated to a 2 1/2" thick polyurethane rigid foam section.

Dimensions: 82" x 36.5" x 6"  
Weight : 38 lbs

TO: Nion, Inc.  
Attn.: Robert Trussell  
167 West Main Street  
Suite 1300  
Lexington, KY 40507

DATE: March 16, 1992

PROJECT NO: 4140 92-0885

PO NO: n/a

PROJECT: TEMPUR HOSPITAL MATTRESS  
POLY-ETHYLENE/URETHANE FOAM TYPE T-10

COPIES TO: Nion, Inc,  
Attn: Bob Hoeller

BODY INTERFACE PRESSURE POINT TEST  
BEFORE AND AFTER OCTAGANOL ROLLER PROCEDURE

INTRODUCTION:

This report documents the results of pressure point tests conducted on a mattress submitted by Nion, Inc. The pressure tests were conducted before and after exposure to a 240 lb octaganol roller test. This work was requested by Mr. Robert Trussel of Nion on January 30, 1992 with the testing conducted between February 4 and March 13, 1992

TEST RESULTS SUMMARY

Average Pressure (mm Hg) – All Subjects (10)  
(Standard Deviation values in Parentheses)

Tempur Hospital Mattress – Type T-10

<u>Position</u>	<u>Before Octagonal Roller</u>	<u>After Octagonal Roller</u>
Scapula (Shoulder Blade)	20 (7.4)	16 (5.3)
Sacral Prominence (Tailbone)	27 (10.3)	25 (8.1)
Heel (Values out off below 2 mm)	19 (20.0)	19 (19.9)
Trochanter (Hip)	47 (30.1)	39 (17.6)

It is the policy of twin city Testing Corporation to use recognized test procedures whenever possible, such as ASTM, ANSI, ISO etc. To TCT's knowledge, no standard procedure exists for body contact pressure testing at the prese time, The test method employed for this analysis is based on sound laboratory practice. Precautions were employed to position the sensor correctly each case. The pressure monitor was calibrated before and after each series measurements.

Prepared by:  
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BODY INTERFACE PRESSURE POINT TEST  
TEMPUR-MED 6" HOSPITAL REPLACEMENT MATTRESS

Prepared for:  
TEMPUR-PEDIC, INC.  
848G NANDINO Blvd.  
Lexington, KY 40511

Client Purchase Order Number: n/a

Twin City Testing Corporation Project Number: 4140 93-2582

Date: August 30, 1993

TWIN CITY TESTING CORPORATION

Reviewed by:

Brent L. Larson  
Engineering Technician  
Mechanical/Metallurgical Department

Richard O. Thomalla  
Bedding Evaluation Supervisor  
Mechanical/Metallurgical Department

The test results contained in this report pertain only to the samples submitted for testing and not necessarily to all similar products.

Project Number: 4140 93-2582

TEST PROCEDURE:

A Talley Oxford Pressure Monitor- Model MKII was used for this analysis. The mattress was placed directly on a sturdy laboratory table. Three subject were used for the analysis and selected according to specific weight and height ranges. The subjects were dressed in an appropriate size cotton seat suit with no shoes to ensure proper placement of the 4" x 5" – 12 sensor pad. Positioning of the sensor pad was accomplished by both the subject and experimenter. Repositioning between the three replications conducted on each subject was also part of the test procedure. The subject's weight, height and gender are listed below:

<u>Subject</u>	<u>sex</u>	<u>height</u>	<u>weight</u>
1	F	5' 5"	120
2	F	5' 5"	124
3	M	5'9"	165
4	M	5' 8"	179
5	M	5' 8"	145
6	M	6' 1"	200
7	M	5' 10"	195
8	M	5' 10"	175
9	F	5' 6"	120
10	F	5' 5"	175

TEST RESULTS

Average Pressure (mm Hg) – Individual subjects

Tempur-Med 6"

	<u>#1</u>	<u>#2</u>	<u>#3</u>	<u>#4</u>	<u>#5</u>	<u>#6</u>	<u>#7</u>	<u>#8</u>	<u>#9</u>	<u>#10</u>	<u>Avg</u>
Scapula	14	11	16	17	18	20	17	16	13	14	16
Sacral Prominence	23	14	22	23	19	20	19	18	21	25	20
Heel	29	24	26	28	30	22	25	32	23	20	26
Trochanter	35	36	36	48	35	44	41	36	37	41	39

Maximum Pressure (mm Hg) – Individual Subjects

	<u>#1</u>	<u>#2</u>	<u>#3</u>	<u>#4</u>	<u>#5</u>	<u>#6</u>	<u>#7</u>	<u>#8</u>	<u>#9</u>	<u>#10</u>	<u>avg</u>
Scapula	27	17	22	24	33	34	22	21	19	22	24
Sacral Prominence	39	22	32	28	33	29	29	27	31	38	31
Heel	97	82	84	137	105	80	74	176	93	84	101
Trochanter	45	62	59	87	62	73	52	77	58	55	63

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