

Examinee #	6354	

# Functional Capacity Evaluation (FCE) / Physical Performance Test (PPT) Summary Report

Examinee: David Patient Test Date: 5/7/09  Occupation: Driver  Date of Birth: 9/29/77 Date of Injury: 1/5/09  ICD-9 Codes: 1. 724.4 2. 338.4  3. 722.2 4.	Hand Grip Strength Protocol (Standard Protocol, 5 positions, bell curve strength reliability test):  Right Hand: 5 out of 5 valid, Bell Curve, Yes ✓ No ☐  Left Hand: 5 out of 5 valid, Bell Curve, Yes ✓ No ☐  Cross Validation Strength Grip Protocol (Rapid Exchange, 1 position reliability test)  Negative REG, indicating a maximal effort
Arm Lift ( 32-60 in.) 40 lbs.	Reliable Yes No Yes No O to 30 lbs. Max. Occasionally lbs. Max. Frequently
Vertical Height Max. Lifted Reliable Max. Lift Floor to shoulder (60 in) 15 lbs V Yes No 30 ll Knuckle to Shoulder (32-60) 15 lbs V Yes No 30 ll	ional Lift  ed Reliable bs Yes No ps Yes No
Functional Activities Maximum lbs. Carry Cycles* 4 # of cycles  Cardio Respiratory Protocol VO2 Fitness Classification: Low  Cardio Fitness Test: Bruce Treadmill	Heart Rate Start Time: 12:00pm Stop Time: 5:00pm
Comments:	
Authorizing Physician:	Physicians Name::

### SAMPLE SUMMARY REPORT

### **Functional Capacity Report**

Patient: David Patient SSN: 123-45-6789 DOI: 01/05/09

Dear Dr. Good.

David Patient was seen for an FCE on Tuesday, May 7, 2009.

Mr. Patient's range of motion was within functional to normal range with the following exceptions: Right knee flexion 117 degrees (78% of normal\*).

Right ankle plantarflexion 33 degrees (82% of normal), eversion 16 degrees (80% of normal). Right shoulder flexion 124 degrees (83% of normal), extension 32 degrees (80% of normal) Abduction 107 degrees (71% of normal), internal rotation 60 degrees (75% of normal).

True lumbar flexion 50.0 degrees (83% of normal), left straight leg raise 35.7 degrees (45% of normal), right straight leg raise 37% of normal).

On the Bruce Treadmill Test, the patient completed a three minute cycle at speeds of 1.7 mph and 2.5 mph. He voluntarily stopped the test at 34 seconds into the third cycle at 3.4 mph, complaining of right ankle pain. His heart rate increased from 88bpm to 114bpm. His VO2 max corresponds to the 0 (zero) percentile and is a poor ranking.

On the Jamar hand dynamometer, he did show a bell-shaped curve and a particular difference between the 2 hands, which may be indicative of maximal effort. His coefficient of variation was below the acceptable maximum of 15% in 10 out of 10 trials, which indicates consistent effort. He demonstrated a negative rapid exchange grip, which may be an indicator of maximal effort.

On the strength testing and standard NIOSH, COV for static push, static arm lift, static leg lift, and static high near lift were all less than the acceptable maximum of 15%, which may be an indicator of consistent effort.

On dynamic lifting floor-to-waist, floor to shoulder, and waist to shoulder, Mr. Patient completed one cycle each of 10, 20, and 30 lbs. On dynamic carrying he was able to complete one cycle each of 10, 20, 30, and 40 lbs. He complained of right ankle, right shoulder, and lumbar pain during these activities, reporting an increase from a pain level of 4/10 to 5/10. His beginning heart rate was 88bpm, and his maximum heart rate was 102bpm. He did not reach his projected rate of 161bpm.

If I can supply further information or clarify this data, please feel free to contact me.

Sincerely,

Patricia Elison, OTR

<sup>\*100% =</sup> normal (Reference Information: American Medical Association Guidelines, Guides to the Evaluation of Permanent Impairment, Fifth Edition)

# **Functional Capacity Evaluation**



### **Client Information**

Client Name: Mr. David Patient

Address: 1708 N. Estrella St

El Paso, TX 79902

Injury Date: January 05, 2009

Dominant Hand: Right Hand

SSN: 635-24-7654

Date of Birth: September 29, 1977

Gender: Male Height: 67 inches Weight: 200 lbs

**Insurance Information** 

Company: National American State Address: P.O. Box 2338 Chandler, OK

74835

(800) 338-2510

Address: 350 Picacho Ave Las Cruses, N.M.

PREPARED FOR:

Dallas, TX

Occupation: Driver

75234

Attn: Dr. Feel Good

Tel: (972) 766-4515

2995 LBJ Freeway Suite#14

Employment Information

85017

Employer: MVT Services LLC DBA

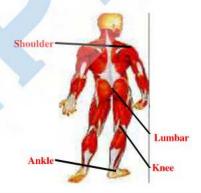
Work Status: Currently working

Clinic File #: 6354 Start & Finish Date: May 07, 2009

Start Time: 12:00pm End Time: 5:00pm

### Areas of Complaint





General Location	Specific Location	Plane	Side	Pain Type	Pain Scale
Ankle		Unilateral	Right	Tingling, Poking	4 - Low Moderate
Lumbar		Posterior	Center	Throbbing, Aching,	4 - Low Moderat
Knee		Unilateral	Right	Throbbing, Aching, Stabbing	4 - Low Moderate
Shoulder		Unilateral	Right	Tingling, Poking	4 - Low Moderate

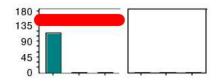
Patricia Ellison, OTR



### REHABILITIES PARTNERS LLC

	Flexion	Extension
Normals:	150	0
	117	0

% of Normal	78%	100%
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#### Reference Information

American Medical Association Guides to the Evaluation of Permanent Impairment, Fifth Edition

### Range of Motion 📂 Shoulder - Left

May 07, 2009

	Flexion	Extension	Abduction	Adduction	Internal Rotation	External Rotation
Normals:	150	40	150	30	80	90
	150	40	150	30	77	90

% of Normal	100%	100%	100%	100%	96%	100%



### Reference Information

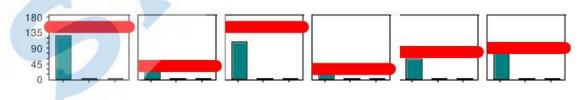
American Medical Association Guides to the Evaluation of Permanent Impairment, Fifth Edition

## Range of Motion - Shoulder - Right

May 07, 2009

	Flexion	Extension	Abduction	Adduction	Internal Rotation	External Rotation
Normals:	150	40	150	30	80	90
	124	32	107	30	60	88

% of Normal	83%	80%	71%	100%	75%	98%



### Reference Information

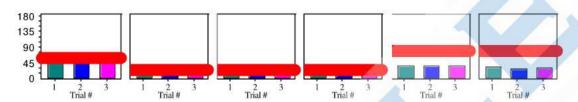
American Medical Association Guides to the Evaluation of Permanent Impairment, Fifth Edition

45%

37%

	True Lumbar Flexion	True Lumbar Extension	Left Lateral Flexion	Right Lateral Flexion	Left Straight Leg Raise	Right Straight Leg Raise
Normals:	60	25	25	25	80	80
Trial 1:	49	22	25	25	37	32
Trial 2:	51	23	29	25	35	27
Trial 3:	50	23	27	25	35	29
Average	50.0	22.7	27.0	25.0	35.7	29.3
Maximum	51.0	23.0	29.0	25.0	37.0	32.0
AMA Valid	YES	YES	YES	YES	YES	YES

108%



100%

### **Reference Information**

% of Normal

American Medical Association Guides to the Evaluation of Permanent Impairment, Fifth Edition

91%

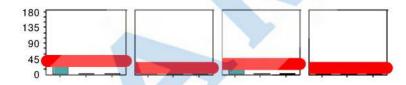
### Range of Motion - Ankle - Right

83%

May 07, 2009

	Plantarflexion	Dorsiflexion	Inversion	Eversion
Normals:	40	20	30	20
	33	20	30	16

% of Normal	82%	100%	100%	80%
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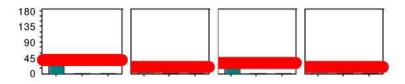
### Reference Information

American Medical Association Guides to the Evaluation of Permanent Impairment, Fifth Edition



	Plantarflexion	Dorsiflexion	Inversion	Eversion
Normals:	40	20	30	20
	40	20	30	20

% of Normal	100%	100%	100%	100%
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### **Reference Information**

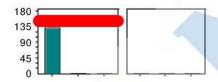
American Medical Association Guides to the Evaluation of Permanent Impairment, Fifth Edition

### Range of Motion - Knee - Left

May 07, 2009

	Flexion	Extension
Normals:	150	0
5276499000000	133	0

% of Normal	89%	100%
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### Reference Information

American Medical Association Guides to the Evaluation of Permanent Impairment, Fifth Edition



### Hand Grip Strength

The JAMAR hand dynamometer was used in order to quantify grip strength and determine whether Mr.Patient exerted consistent effort during grip strength testing. Mr. David Patient was tested using the maximum voluntary effort and rapid exchange hand grip protocols. Mr. David Patient is right hand dominant. Normative data is based on the assumption that right and left hand dominant subjects, analyzed separately show little functional difference between their mean scores.1.2.

53

26

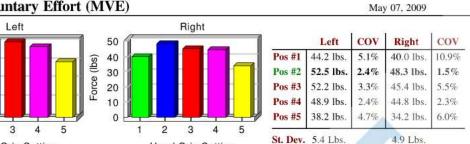
13

0

Force (lbs) 39

The hand dynamometer is set to each of the five available positions which vary the client's grip size. The results for each of the average maximum forces during each

### Maximum Voluntary Effort (MVE)



position are displayed by the Using the Maximum Voluntary Effort (MVE) protocol over a range of five positions on the hand dynamometer, it corresponding bar graphs is expected that the strength graphs obtained results in a bell-shaped curve<sup>3,11,12,13</sup> even in a disabled population or if the client's hand is injured<sup>3</sup>. <sup>13</sup>. with at least 6 of the 10 coefficients of variation within the acceptable 15% or less limit.22

Hand Grip Setting

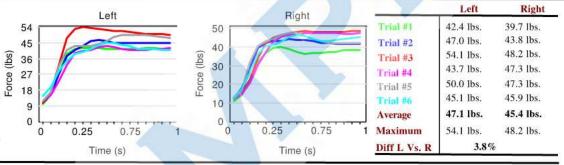
The graph obtained for Mr. David Patient did demonstrate a bell shaped curve which may be an indicator of maximal effort and the coefficients of variation of the underlying data may be an indicator of consistent effort with all 10 coefficients of variation within the 15% acceptable limit.

The hand dynamometer is set to position 2. The client applies a maximum force for a one second trial duration quickly alternating between hands. The average maximum force for all six trials is compared to the maximum voluntary effort reliability purposes.13

### Rapid Exchange Grip (REG)

2

Hand Grip Setting



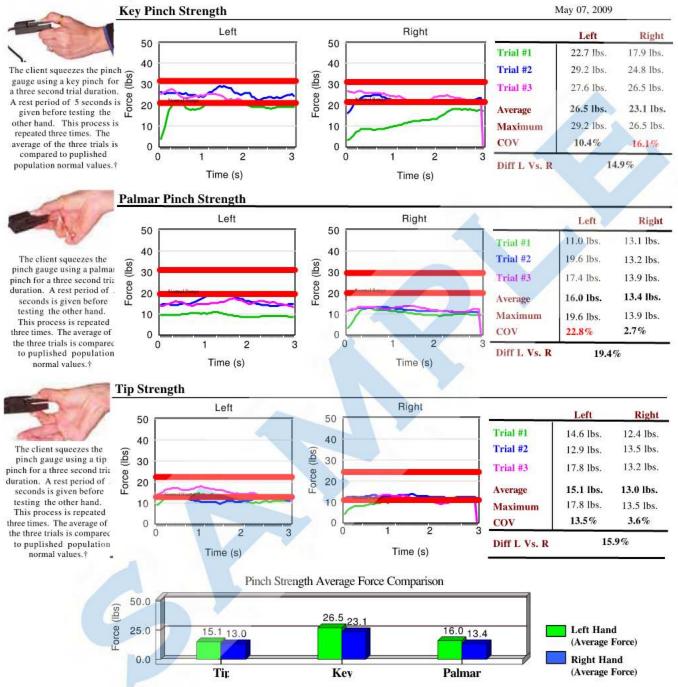
The peak average force value recorded during the maximum voluntary effort protocol was 52.5 lbs performed at value in the same position for position 2. The Rapid Exchange Grip (REG) protocol was therefore administered at this position. A negative rapid exchange grip (REG) occurs when the average of the values recorded during the rapid exchange grip protocol are less than the average of the values recorded during the maximum voluntary effort protocol in the same position and for the same hand. Conversely, a positive REG occurs when the average of the values recorded during the rapid exchange grip protocol exceed the average of the values recorded during the maximum voluntary effort protocol in the same position and for the same hand. A negative REG allows the evaluator to have more confidence that the evaluee is performing maximally. A positive REG may be an indicator of submaximal effort.<sup>13</sup> Mr. David Patient produced an average value of 47.1 lbs for the left hand and 45.4 lbs for the right hand during the rapid exchange protocol. He produced an average value of 52.5 lbs for the left hand and 48.3 lbs for the right hand during the maximum voluntary effort protocol. David Patient therefore demonstrated a negative REG which may be an indicator of maximal effort.

- 3 Stokes H. 1983. The seriously uninjured hand weakness of grip. J Occup Med 25(9):683-684.
- <sup>11</sup> Niebuhr B, Marion R. 1990. Voluntary control of submaximal grip strength. Am J Phys Med Rehabil 69(2): 96-101.
- 12 Matheson L, Carlton R, Niemeyer L. 1988. Grip strength in a disabled sample: reliability and normative standards. Ind Rehabil Q 1(3):9,17-23.
- 13 Hildreth D, Breidenbach W, Lisiter G, Hodges A. 1989. Detection of submaximal effort by use of the rapid exchange grip. J Hand Surgery 14A(4): 742-745.
- <sup>22</sup> Klimek E, Strait J. 1997. Volition in impairment rating: the validity of effort assessment. J Occup Med 6(2) 9-18.

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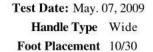
### Pinch Strength

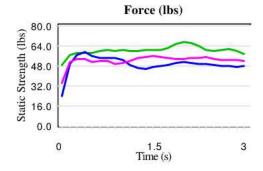
The FOCUS pinch strength test is performed to quantify pinch strength as compared to population norms.† Mr. David Patient was asked to perform three forms of pinch strength tests including the tip, key and palmar pinch. The data demonstrated that Mr. David Patient's tip pinch strength was normal for both the left and right hand. His left hand was 15.9% stronger than the right hand. Key pinch strength was normal for both the left and right hand. His left hand was 14.9% stronger than the right hand. Palmar pinch strength was low for the left hand and significantly low for the right hand. His left hand was 19.4% stronger than the right hand.



<sup>†</sup> Mathiowetz V, Kashman N, Volland G, Weber K, Dowe M, Rogers S. 1985. Grip and pinch strength: normative data for adults. Arch Phys Med

Acc. Rot. Angle: Accessory Angle





Trial 1:67.1 lbs Trial 2:58.9 lbs Trial 3:56.0 lbs **Average:** 60.7 lbs **COV:** 7.7%

2: 58.9 lbs | COV: 7.7

Mr. Patient reached an average peak force of 60.7 lbs. for the Static Push Strength test. The coefficient of variation was 7.7% during the Static Push Strength. Values greater than 15% may be an indicator of submaximal effort.



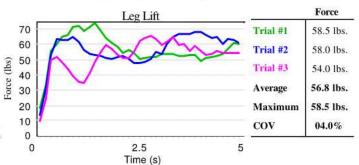
### Standard NIOSH

Mr. David Patient's ability to lift, push or pull was assessed using the FOCUS Standard NIOSH strength test. It is predictable that leg strength will be greater than either torso or arm strength.†

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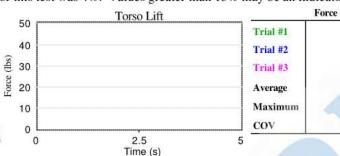
The client pulls up for a five second trial duration. A rest period of 15 seconds is given in between the three trials.



An average force of 56.8 lbs. was exerted by Mr. David Patient during the leg lift. The coefficient of variation for this test was 4%. Values greater than 15% may be an indicator of inconsistent effort.

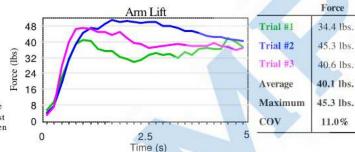


The client pulls up for a five second trial duration. A rest period of 15 seconds is given in between the three trials.





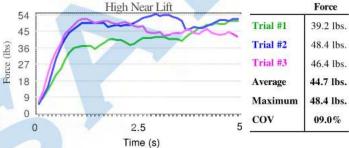
The client pulls up for a five second trial duration. A rest period of 15 seconds is given in between the three trials.



An average force of 40.1 lbs. was exerted by Mr.David Patient during the arm lift. The coefficient of variation for this test was 11%. Values greater than 15% may be an indicator of inconsistent effort.



The client pushes up for a five second trial duration. A rest period of 15 seconds is given in between the three trials.



An average force of 44.7 lbs. was exerted by Mr. David Patient during the high near lift. The coefficient of variation for this test was 9%. Values greater than 15% may be an indicator of inconsistent effort.

#### **Evaluator Comments**

Throbbing to lumbar reported throughout activity. Poking/stabbing pain to right ankle reported during leg lift. Torso Lift not performed

<sup>†</sup> Atuahene, F and A. Freivalds (1987) Comparison of Dynamic Static and Psychophysical Evaluations of Human Strength Capabilities. Journal of Human Ergology, Vol. 16, No. 2: 17-191

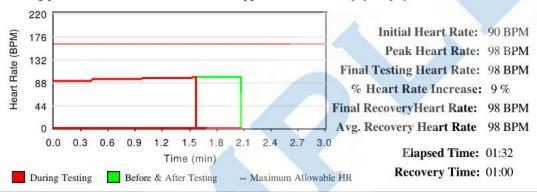
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The Dynamic Lifting - Floor to Waist Occasional was conducted in Mr. Patient's case in order to determine his ability to complete the task. A progressive loading method was used to determine Mr. Patient's capacity for the performance of dynamic lifting activities on a safe and dependable basis. Lifting was conducted between waist height and floor height for a total of 1 repetition at each weight increment. The increase in the amount of weight lifted was in 10-pound increments.

In order to ensure safety in the administration of the testing protocol, Mr. Patient's heart rate was monitored on a real-time basis. A cut-off of 161 beats per minute, based upon 85 percent of the age-predictive maximum heart rate was used in order to ensure the safe administration of the dynamic lifting protocol. A rating of perceived exertion was also used in order to make certain Mr. Patient was capable of continuing in the protocol without risk of injury.

During the course of testing Mr. Patient's heart rate increased from 90 beats per minute to a peak of 98 beats per minute at the final weight of 30 lbs. This represented a heart rate increase of 9% during the lifting protocol. Mr. Patient's heart rate did not recover. Instead it remained constant at 98 beats per minute during the 1 minute recovery period.

Mr. Patient demonstrated a safe weight lifting ability of 30 lbs. The reason for the conclusion of the dynamic lifting protocol was the fact Mr. Patient stopped the test due to psychophysical factors.



Starting Height	Waist Height	Exertion Rating Stop Point	Heavy
Ending Height	Floor Height	Heart Rate Cut Off	85% of age adj.
Initial Weight	10.0 lbs.	Maximum Test Duration	Unlimited
Weight Increments	10.0 lbs.	Maximum Allowed Weight	None
Repetitions Per Weight	1 Repetition	Maximum Safe Weight Lifted	30 lbs.
Rest Period Per Weight Cy	cle No Rest Period		

#### **Evaluator Comments**

Patient reported pain to right ankle and lumbar region during this activity.



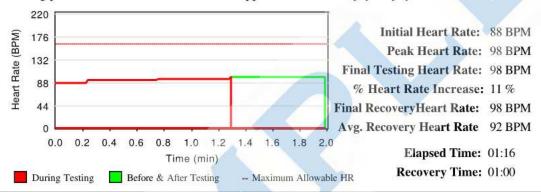
May 07, 2009

The Dynamic Lifting - Floor to Shoulder Occasional was conducted in Mr. Patient's case in order to determine his ability to complete the task. A progressive loading method was used to determine Mr. Patient's capacity for the performance of dynamic lifting activities on a safe and dependable basis. Lifting was conducted between shoulder height and floor height for a total of 1 repetition at each weight increment. The increase in the amount of weight lifted was in 10-pound increments.

In order to ensure safety in the administration of the testing protocol, Mr. Patient's heart rate was monitored on a real-time basis. A cut-off of 161 beats per minute, based upon 85 percent of the age-predictive maximum heart rate was used in order to ensure the safe administration of the dynamic lifting protocol. A rating of perceived exertion was also used in order to make certain Mr. Patient was capable of continuing in the protocol without risk of injury.

During the course of testing Mr. Patient's heart rate increased from 88 beats per minute to a peak of 98 beats per minute at the final weight of 30 lbs. This represented a heart rate increase of 11% during the lifting protocol. Mr. Patient's heart rate did not recover. Instead it remained constant at 98 beats per minute during the 1 minute recovery period.

Mr. Patient demonstrated a safe weight lifting ability of 30 lbs. The reason for the conclusion of the dynamic lifting protocol was the fact Mr. Patient stopped the test due to psychophysical factors.



Starting Height	Shoulder Height	Exertion Rating Stop Point	Heavy
Ending Height	Floor Height	Heart Rate Cut Off	85% of age adj.
Initial Weight	10.0 lbs.	Maximum Test Duration	Unlimited
Weight Increments	10.0 lbs.	Maximum Allowed Weight	None
Repetitions Per Weight	1 Repetition	Maximum Safe Weight Lifted	30 lbs.
Rest Period Per Weight Cy	cle No Rest Period		

#### **Evaluator Comments**

Patient had difficulty lifting crate to shoulder level during the 30lb cycle. Poking to shoulder and throbb to lumbar region reported.



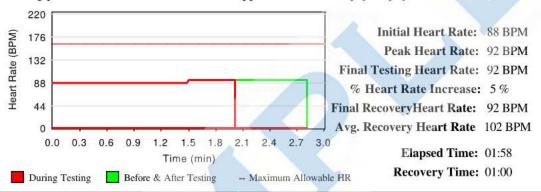
May 07, 2009

The Dynamic Lifting - Waist to Shoulder Occasional was conducted in Mr. Patient's case in order to determine his ability to complete the task. A progressive loading method was used to determine Mr. Patient's capacity for the performance of dynamic lifting activities on a safe and dependable basis. Lifting was conducted between waist height and shoulder height for a total of 1 repetition at each weight increment. The increase in the amount of weight lifted was in 10-pound increments.

In order to ensure safety in the administration of the testing protocol, Mr. Patient's heart rate was monitored on a real-time basis. A cut-off of 161 beats per minute, based upon 85 percent of the age-predictive maximum heart rate was used in order to ensure the safe administration of the dynamic lifting protocol. A rating of perceived exertion was also used in order to make certain Mr. Patient was capable of continuing in the protocol without risk of injury.

During the course of testing Mr. Patient's heart rate increased from 88 beats per minute to a peak of 92 beats per minute at the final weight of 30 lbs. This represented a heart rate increase of 5% during the lifting protocol. Mr. Patient's heart rate did not recover. Instead it remained constant at 92 beats per minute during the 1 minute recovery period.

Mr. Patient demonstrated a safe weight lifting ability of 30 lbs. The reason for the conclusion of the dynamic lifting protocol was the fact Mr. Patient stopped the test due to psychophysical factors.



Starting Height	Waist Height	<b>Exertion Rating Stop Point</b>	Heavy
Ending Height	Shoulder Height	Heart Rate Cut Off	85% of age adj.
Initial Weight	10.0 lbs.	Maximum Test Duration	Unlimited
Weight Increments	10.0 lbs.	Maximum Allowed Weight	None
Repetitions Per Weight	1 Repetition	Maximum Safe Weight Lifted	30 lbs.
Rest Period Per Weight Cy	cle No Rest Period		

#### **Evaluator Comments**

Patient had a difficult time lifting crate to to shoulder level during the 30lb cycle. Pt reported pain to righ shoulder and lumbar following this activity.

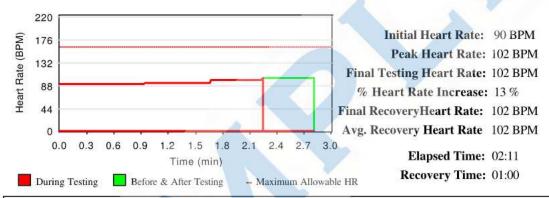


The Dynamic Carrying was conducted in Mr. Patient's case in order to determine his ability to complete the task. A progressive loading method was used to determine Mr.Patient's capacity for the performance of carrying activities on a safe and dependable basis. Carrying was conducted for a distance of 30 feet during each activity repetition. The lift performed in conjunction with the initiation of the carrying activity was at his waist height level. The programmed increase of the weight in this activity was 10 pounds for each carrying cycle.

In order to ensure safety in the administration of the testing protocol, Mr. Patient's heart rate was monitored on a real-time basis. A cut-off of 161 beats per minute, based upon 85 percent of the age-predictive maximum heart rate was used in order to ensure the safe administration of the dynamic carrying protocol. A rating of perceived exertion was also used in order to make certain Mr. Patient was capable of continuing in the protocol without risk of injury.

During the course of testing Mr. Patient's heart rate increased from 90 beats per minute to a peak of 102 beats per minute at the final weight of 40 lbs. This represented a heart rate increase of 13% during the carrying protocol. Mr. Patient's heart rate did not recover. Instead it remained constant at 102 beats per minute during the 1 minute recovery period.

Mr. Patient demonstrated a safe weight carrying ability of 40 pounds. The reason for the conclusion of the dynamic carrying protocol was the fact Mr. Patient stopped the test due to psychophysical factors.



Starting Height	Waist Height	<b>Exertion Rating Stop Point</b>	Heavy
Carry Distance	30 Feet	Heart Rate Cut Off	85% of age adj.
Initial Weight	10.0 lbs.	Maximum Test Duration	Unlimited
Weight Increments	10.0 lbs.	Maximum Allowed Weight	None
Repetitions Per Weight	1 Repetition	Maximum Safe Weight Carried	40 lbs.
Rest Period Per Weight Cy	cle No Rest Period		

#### **Evaluator Comments**

Patient reported an increase in pain levels to lumbar region, from a 4/10 to 5/10 following this activity.



## Oswestry Low Back Pain Disability Questionnaire



Please read:

This questionnaire has been designed to give the doctor/clinician information as to how your back pain has affected your ability to manage in everyday life. Please answer every section, and mark in each section only the ONE sentence which applies to you. We realize you may consider that two of the statements in any one section relate to you, but please just mark the sentence which most closely describes your problem.

Date May 07, 2009

2573	•
Section 1 - Pain Intensity	Section 6 - Standing
I can tolerate the pain I have without having to use pain killers.	☐ I can stand as long as I want without extra pain.
The pain is bad but I manage without taking pain killers.	I can stand as long as I want but it gives me extra pain.
Pain killers give complete relief from pain.	Pain prevents me from standing for more than 1 hour.
Pain killers give moderate relief from pain.	Pain prevents me from standing more than 30 mins.
Pain killers give very little relief from pain.	Pain prevents me from standing more than 10 mins.
Pain killers have no effect on the pain and I do not use them.	Pain prevents me from standing at all.
Section 2. Recognition (Westing Provides 44)	Tam prevents the north standing at all.
Section 2 - Personal Care (Washing, Dressing, etc)	Section 7 - Sleeping
<ul> <li>I can look after myself normally without causing extra pain.</li> <li>✓ I can look after myself normally but it causes extra pain.</li> </ul>	Pain does not prevent me from sleeping well.
	I can sleep well only by using tablets.
It is painful to look after myself and I am slow and careful.	Even when I take tablets I have less than six hours sleep.
I need some help but manage most of my personal care.	Even when I take tablets I have less than four hours sleep.
I need help every day in most aspects of self care.	Even when I take tablets I have less than two hours sleep.
I do not get dressed, wash with difficulty and stay in bed.	Pain prevents me from sleeping at all.
Section 3 - Lifting	
☐ I can lift heavy weights without extra pain.	Section 8 - Sex Life
☐ I can lift heavy weights but it gives extra pain.	My sex life is normal and causes no extra pain.
Pain prevents me from lifting heavy weights off the floor, but I can	My sex life is normal but causes some extra pain.
manage if they are conveniently positioned, eg. on a table.	My sex life is nearly normal but is very painful.
Pain prevents me from lifting heavy weights but I can manage light to	My sex life is severely restricted by pain.
medium weights if they are conveniently positioned.	My sex life is nearly absent because of pain.
☐ I can lift only very light weights.	Pain prevents any sex life at all.
☐ I cannot lift or carry anything at all.	Section 9 - Social Life
101 T 27 T	My social life is normal and gives me no extra pain.
Section 4 - Walking	My social life is normal but increases the degree of pain.
Pain does not prevent me walking any distance.	Pain has no significant affect on my social life apart from limiting
Pain prevents me walking more than 1 mile.	my more energetic interests, eg. dancing, etc.
Pain prevents me walking more than 1/2 mile.	
Pain prevents me walking more than 1/4 mile.	Control Photocome and Security
☐ I can only walk using a stick or crutches.	Pain has restricted my social life to my home.
I am in bed most of the time and have to crawl to the toilet.	☐ I have no social life because of pain.
Section 5 - Sitting	Section 10 - Travelling
☐ I can sit in any chair as long as I like.	I can travel anywhere without extra pain.
☐ I can only sit in my favorite chair as long as I like.	I can travel anywhere but it gives me extra pain.
Pain prevents me from sitting more than 1 hour.	Pain is bad but I manage journeys over two hours.
Pain prevents me from sitting more than 1/2 hour.	Pain restricts me to journeys of less than one hour.
Pain prevents me from sitting more than 10 mins.	Pain restricts me to short necessary journeys under 30 minutes.
Pain prevents me from sitting at all.	Pain prevents me from travelling except to the doctor or hospital.
rain prevents me from string at air.	
Total Score: 25 Description: Pain remains	the main problem in this group of patients, but travel, personal
nagial life and	rual activity and sleep are also affected. These patients require
detailed investigation	
Disability Profile Rating: Severe disability	

### **Dallas Pain Questionnaire**

Please read:

This questionnaire has been designed to give the doctor informal as to how your pain has affected your life. Be sure that these are your answers. Do not ask someone else to fill out the questionns for you. Please click on the line in the position that expresses y thoughts from 0 to 100% in each section.

Scoring: Factor I: 81% Daily Activities

Factor II: 90% Work/Leisure Activities Factor III: 25% Anxiety/Depression Factor IV: 55% Social Interest

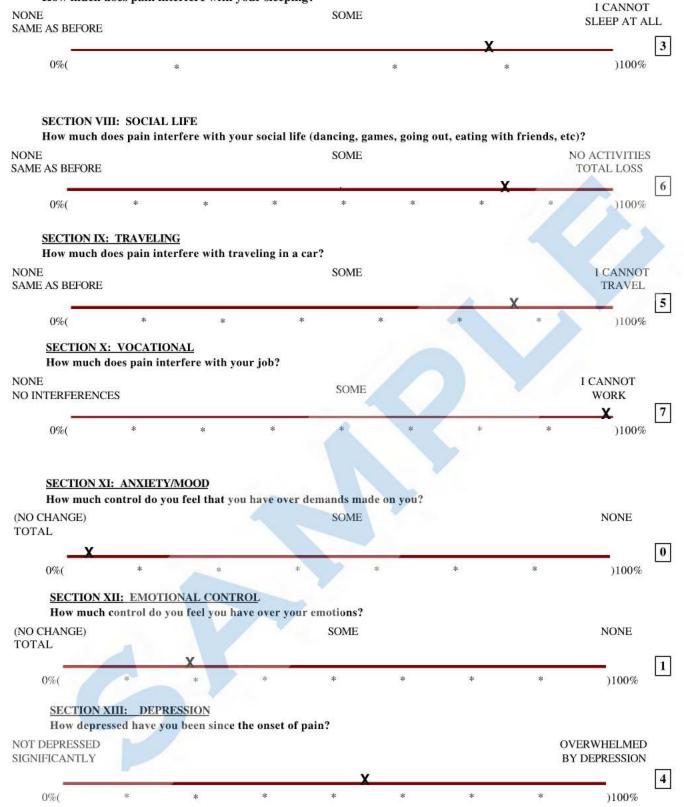
Primary Approach: No profile match found

May 07, 2009

### SECTION I: PAIN AND INTENSITY To what degree do you rely on pain medications or pain relieving substances for you to be comfortable? ALL THE TIME NONE SOME 0%( )100% SECTION II: PERSONAL CARE How much does pain interfere with your personal care (getting out of bed, teeth brushing, dressing, etc)? NONE (NO PAIN) SOME I CANNOT GET OUT OF BED 0%( SECTION III: LIFTING How much limitation do you notice in lifting? I CANNOT LIFT SOME ANYTHING (I CAN LIFT AS I DID) )100% 0%( SECTION IV: WALKING Compared to how far you could walk before your injury or back trouble, how much does pain restrict your walking now I CANNOT I CAN WALK ALMOST VERY LITTLE THE SAME THE SAME WALK 4 )100% 0%( SECTION V: SITTING Back pain limits my sitting in a chair to: SOME I CANNOT SIT AT ALL PAIN SAME AS BEFORE 3 0%( )100% SECTION VI: STANDING How much does your pain interfere with your tolerance to stand for long periods? I CANNOT SOME STAND SAME AS BEFORE 5 )100% 0%(

#### SECTION VII: SLEEPING

### How much does pain interfere with your sleeping?



#### SECTION XIV: INTERPERSONAL RELATIONSHIPS

How much do you think your pain has changed your relationships with others?



#### SECTION XV: SOCIAL SUPPORT

How much support do you need from others to help you during this onset of pain (taking over chores, fixing meals, etc.)?

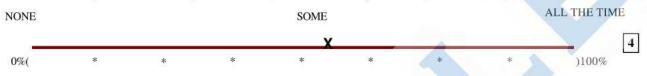
NONE NEEDED

ALL THE TIME



#### SECTION XVI: PUNISHING RESPONSE

How much do you think others express irritation, frustration or anger toward you because of your pain?



### Cardiovascular Intake

May 07, 2009	Resting	Systolic	Diastolic
	Rate (Min)	(mm Hg)	(mm Hg)
	88	114	89
Result	Normal	Normal	High Normal
	Heart Rate	Blood	Blood Pressure

### Bruce Treadmill >



The test is a continuous, mulstage test that starts with a lc speed and grade gradually increasing until the patient decides to quit.

Maximal oxygen consumption is the most valid means of determining cardiorespiratory fitness or maximal aerobic power. Mr. Patient was asked to work on a treadmill in order to directly measure his maximum oxygen intake. The Bruce Treadmill Test (Bruce et al, 1973) is a submaximal test based on the linear relationship that exists between workload (VO2) and heart rate. The test is a continuous, multi-stage test that starts with a low power output and gradually progresses through increments in speed and grade of the treadmill every 3 minutes until the client decides to quit. Mr. Patient's maximum oxygen intake (VO2 max) during the Bruce treadmill protocol was 25.94 ml/(Kg\*min) when his maximum oxygen intake is compared to age and sex matched population norms this corresponds to the 0th percentile and is an poor ranking.

Test Dat	te	Time (mir	n) Max (m	l kg¹ min¹)	Percentile	Rating
May 07, 2	2009	06:34	25	5.94	0%	Poor
Evaluator	Comn	nent				
Speed	Start	ing HR	Ending HR	Comment	S	
1.7	8	8	98	Patient	completed this sp	eed with no
problem						
2.5	9	8	108	Pain to 1	right ankle reporte	d
3.4	10	8	114	Pt repor	rted increased pair	n to right
ankle, pt b	egan i	using rails	and limping.	Pt requested	testing be stoppe	d.

VO<sub>2</sub>

# **Testing Summary Report**

						Mr. David Patient
Cardiovascular						
Bruce Treadmill						May 07, 2009
	Time	VO2 Max	Percentile	Rating		
	06:34	25.944	0	Poor		
	00.34	23.944				
Cardiovasular Intake	}					May 07, 2009
		ni in				
	Heart Rate 88	Blood Pressure 114/89				
Range Of Motion	\$290CC	UTC.VIEW				
						A 14 AF 1000
Ankle - Left						May 07, 2009
	Flexion					
	Contracture:	Dorsiflexion	Inversion	Eversion		
	<b>Plantarflexion</b>	<u> </u>	zir veroion	27.02.01011		
<b>Total Active Motion</b>	40.0	20.0	30.0	20.0		
Normals % Normal	40.0 100.0%	20.0 100.0%	30.0 100.0%	20.0 100.0%		
Ankle - Right	100.0%	100.0%	100.0%	100.0%		May 07, 2009
Alikie - Right						may 07, 2005
	Flexion Contracture:					
	<u> </u>	<b>Dorsiflexion</b>	Inversion	Eversion		
	<b>Plantarflexion</b>					
Total Active Motion	33.0	20.0	30.0	16.0		
Normals % Normal	40.0 82.0%	20.0 100.0%	30.0 100.0%	20.0 80.0%		
Knee - Left	Curticate anyments	\$1000 May 200		1000		May 07, 2009
	Flexion_					
	Contracture:					
		Extension				
m., 1	Flexion	0.0				
Total Active Motion Normals	133.0 150.0	0.0				
% Normal	89.0%	100.0%				
Knee - Right						May 07, 2009
	Flexion					
	Contracture:					
		Extension				
T-4-1 A -4' 34-4'	Flexion	0.0				
Total Active Motion Normals	117.0 150.0	0.0				
% Normal	78.0%	100.0%				
<b>Lumbar</b>						May 07, 2009
	True Lumbar	True Lumbar	Left Lateral Flexion	Right Lateral	Left Straight Leg	Right Straight Leg
	Flexion	Extension		Flexion	Raise	Raise
Total Active Motion	50.0	22.7	27.0	25.0	35.7	29.3
Co. Of Variation Normals	2.0%	2.0% 25.0	6.0% 25.0	0.0% 25.0	3.0% 80.0	7.0% 80.0
% Normal	83.0%	91.0%	108.0%	100.0%	45.0%	37.0%
Shoulder - Left		33057552	9.8995327AEX	1500(087)(CP)	200 (100 (100)	May 07, 2009
The state of the s	F1	F-4	A L J		Lateral D. C. C.	
Total Active Motion	Flexion 150.0	Extension 40.0	Abduction 150.0	Adduction 30.0	Internal Rotation 77.0	External Rotation 90.0
Normals	150.0	40.0	150.0	30.0	80.0	90.0

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Shoulder -	Right
------------	-------

	Flexion	Extension	Abduction	Adduction	Internal Rotation	<b>External Rotation</b>
<b>Total Active Motion</b>	124.0	32.0	107.0	30.0	60.0	88.0
Normals	150.0	40.0	150.0	30.0	80.0	90.0
% Normal	83.0%	80.0%	71.0%	100.0%	75.0%	98.0%
C 10 D						

### **Self Reports**

Dallas Pain Question	nnaire					May 07, 2009
	I: Daily Activities	II: Work/Leisure Activities	III: Anxiety/Depression	IV: Social Interest	Primary Approach	
	81%	90%	25%	55%	No profile match found	
Oswestry Low Back	Pain Disability					May 07, 2009
	Score 25	Percentile 55.56%	Rating Severe disability			
Strength				=		
Standard NIOSH						May 07, 2009
	Leg Lift	Torso Lift	Arm Lift	High Near Lift		
Force Co. Of Variation	56.8 4.0%		40.1 11.0%	44.7 9.0%		
Work Simulation						
Dynamic Carrying						May 07, 2009
	Final Safe Weight	Heart Rate Initial	Heart Rate Maximum	Final Exertion Rating	Termination Reason	Job Demand/Lifting Restriction
	40 lbs	90	102	08	Psychophysical	None/None

Dynamic Lifting - Floor to Shoulder Occasional

Final Safe Weight	Heart Rate Initial	Heart Rate	Final Exertion	Termination Reason	Job Demand/Lifting
		Maximum	Rating		Restriction
30 lbs	88	98	07	Psychophysical	None/None
				factors	

> Dynamic Lifting - Floor to Waist Occasional

May 07, 2009

May 07, 2009

factors

Final Safe Weight	Heart Rate Initial	Heart Rate	Final Exertion	Termination Reason	Job Demand/Lifting
		Maximum	Rating		Restriction
30 lbs	90	98	07	Psychophysical	None/None
		W		factors	

Dynamic Lifting - Waist to Shoulder Occasional

May 07, 2009

Final Safe Weight	Heart Rate Initial	Heart Rate Maximum	Final Exertion Rating	Termination Reason	Job Demand/Lifting Restriction
30 lbs	88	92	07	Psychophysical factors	None/None

Hand Grip - MVE

May 07, 2009

	Force Position 1	Force Position 2	Force Position 3	Force Position 4	Force Position 5
Left	44.2 lbs. COV = 5.1%	52.5 lbs. COV = 2.4%	52.2 lbs. COV = 3.3%	48.9 lbs. COV = 2.4%	38.2 lbs. COV = 4.7%
Right	40.0lbs COV = 10.9%	48.3lbs COV = 1.5%	45.4lbs COV = $5.5%$	44.8lbs COV = $2.3%$	34.21bs COV = $6.0%$

Hand Grip - Rapid

May 07, 2009

Left	Force
	47.1 lbs.
Right	45.4 lbs.

Pinch Grip - Key

May 07, 2009

	<b>Force</b>	<b>Normals</b>	Result	Co. Of Variation
Left	26.5 lbs.	26.2 lbs.+-5.1 lbs.	Normal	10.4%
Right	23.1 lbs.	26.4 lbs.+-4.8 lbs.	Normal	16.1%

### REHABILITIES PARTNERS LLC

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Mr. David Patient May 07, 2009

Pinch Grip	p - Palmar					May 07, 2009
		Force	<b>Normals</b>	Result	Co. Of Variation	
1	Left Right	16.0 lbs. 13.4 lbs.	25.4 lbs.+-5.7 lbs. 24.7 lbs.+-4.7 lbs.	Low Low	22.8% 2.7%	
Pinch Grij	p - Tip					May 07, 2009
		<b>Force</b>	Normals	Result	Co. Of Variation	
1	Left Right	15.1 lbs. 13.0 lbs.	17.6 lbs.+-4.8 lbs. 17.6 lbs.+-6.7 lbs.	Normal Normal	13.5% 3.6%	
Static Push	h Strength					May 07, 2009
Net	utral	<u>Force</u> 60.7 lbs.	Co. Of Variation 7.7%			

