Functional Ability Evaluations (FAE)





COMMON TERMS

Impairment

• "In the context of health experience, an impairment is any loss or abnormality of psychological, physiological, or anatomical structure or function"

Disability

• *"In the context of health experience, a disability is any restriction or lack (resulting from an impairment) of ability to perform an activity in the manner or within the range considered normal for a human being*

Handicap

- "In the context of health experience, a handicap is a disadvantage for a given individual, resulting from an impairment or a disability, that limits or prevents the fulfilment of a role that is normal (depending on age, sex, and social and cultural factors) for that individual
- An impaired individual who is able to accomplish a specific task with or without accommodation is neither handicapped nor disabled with regard to that task.



PURPOSE OF FAE



FAE Protocol

Purpose of FAE/FCE – to collect reliable information about current vocational status & <u>estimate</u> potential vocational status.

The Protocol: The protocol was developed after an extensive literature review by a multi-disciplinary team of professionals including physicians, physical and occupational therapists, exercise physiologists, kinesiologists, nurse case managers and vocational professionals. The protocol is designed to be a comprehensive assessment of the patient's functional abilities. A typical evaluation takes up to 4 hours. The evaluation itself is comprised of a variety of components, which have independent and interrelated value in determining a patient's safe functional ability over the course of an 8-hour day.



FAE Systems/Protocol

ARCON	
Matheson	
Workwell	
BTE	
Metrics	

All systems incorporate standardized testing protocols



Physical Demand Characteristic (PDC) of Work

Physical Demand Level	Occasional 0-33% work day	Frequent 34-66% of workday	Constant 67-100% of workday
Sedentary	10 lbs	Negligible	Negligible
Light	20 lbs	10 lbs	Negligible
Medium	20-50 lbs	10-25 lbs	10 lbs
Heavy	50-100 lbs	25-50 lbs	10-20 lbs
Very Heavy	Over 100 Ibs	Over 50 Ibs	Over 20 lbs



Disability Factors (Effort Validity & Reliability)

An FAE tests for maximum effort determination and subjective reports of symptoms that are inconsistent or exaggerated when compared to objective evidence.

Observed behaviors are compared and contrasted to the patient's perception of abilities and self reported symptomology. The ARCON system automatically calculates up to 70 reliability measures. In addition other factors such as heart rate changes, quality and speed of movement patterns, accessory muscle recruitment, force curve analysis and temperature, skin and color changes are also analyzed and recorded. These are then compared to the client's deficits that are specifically related to the disabling condition.

Distraction techniques, such as those employed with Waddell's non-organic are also incorporated into the testing protocol.



Disability Factors (Effort Validity & Reliability)

•Even if a claimant declines most FAE tests, if the validity and reliability checks are not passed then the report is still valuable in suggesting that he/she can do more than they are conveying to the various parties.



COMPONENTS OF FAE



FAE Components

- Patient History & job info (45 min)
- Pain scales & standardised questionnaires. (15 min)
- •MSK assessment (15 min)
- •ROM measurements (15 min)
- Functional Testing (up to 2 hours)
- •Grip Strength
- Dexterity
- Reaching
- Handling
- •Mobility (walking, stair climbing)
- Lifting, carrying, pushing & pulling



Hand Dynamometer

Grip test

Grip Effort





Dexterity tests

Fingering Tests





Handling

Handling using MTM Cube







Mobility

- Crouching/squatting.
- Kneeling/floor mobility.
- Repetitive movement screening.
- Stairs.
- Ladder mobility.













Lifting Tests

Lift Capacity

Tests occasional and frequent lifting.

3 levels:

Waist -> Shoulder Waist -> Floor

vvaist -> Floor

Floor -> Shoulder

Standardised shelf heights.

How would you rate the difficulty of this lift? Scale of 1-9.





Carrying, Pushing, Pulling

Push/pull

• Measure with Force gauge.

Carrying







ELEMENTS OF FAE REPORT



Elements of FAE Report

Job match tables Physical effort & Validity Findings Patient Strength Demand Rating Conclusions & Recommendations FAE data (Appendix)



Job Match Table Recycling Truck Driver

Activities Rated by Strength Level									
Activity	FCE Performance (PDC Category)	Equiv Occasion 0 to 2.6 hours/day	al Freq	uent o 5.3	th Level Constant 5.4 to 8 hours/day	Job Demand (PDC Category)	Deficit		
Low Lift (floor to knuckle)	Light	11 - 20 lt	1-1	0 lb	negligible	Medium	Yes		
Mid Lift (knuckle to shoulder)	Light	11 - 20 lt	1-1	0 lb	negligible	Medium	Yes		
Carry	Medium	21 - 50 lt	11 - 2	25 lb	1 - 10 lb	Medium	No		
Push (static)	Medium	21 - 50 lt	11 - 3	25 lb	1 - 10 lb	Heavy	Yes		
Pull (static)	Medium	21 - 50 lt	11 - 2	25 lb	1 - 10 lb	Heavy	Yes		
Act	Activities Rated by Frequency and Duration								
Activity		FCE Per	Job Demand	Deficit					
Walk		Freq	Frequent	No					
Climb (stairs)		Occa	Occasional	No					
Stoop		Occa	Frequent	Yes					
Kneel		Unable to determine							
Crouch		Declined Free		Frequent	Unable to determine				
Reach Immediate	Left: (Front) C	onstant	Right: (Front)	Constant	Frequent	No		
Reach Overhead	Left: (Front) F	Left: (Front) Frequent Rig			Frequent	Occasional	No		
Handling	Left: Constant Right: Frequent Both: n/a				n/a Constant		Yes		
Fingering	Left: Frequent Right: Frequent Both: n/a					Never	No		
Sitting		Freq	Frequent	No					
Standing	Constant Frequent No						No		
Other Activities									
Grip/Grasping Strength (Dynamometer Position 2)	Left: 71 lb Right: 58.3 lb								



Coefficient of Variance (CV)

Figure 1 – Percent of Industrial Standard Rating Chart																		
Activity	Date	CV ²	%IS	<3	0 4	0 5	50	60	70	8	09	0 1	00	110	12	0 1	30	140+
Walking - 12 Ft	2022-01-07	3.8	89.2															
Carrying - 10 Lb	2022-01-07	3.6	105.6															
Carrying - 20 Lb	2022-01-07	Incom	plete Te	st														
Carrying - 50 Lb	2022-01-07	Incom	plete Te	st														
Bending	2022-01-07	n/a	53.3															
Crouching	2022-01-07	Incom	plete Te	st														
Kneeling	2022-01-07	Incom	plete Te	st														
Reach Immediate (L)	2022-01-07	<u>13.2</u>	136.7															
Reach Immediate (R)	2022-01-07	<u>11.0</u>	106.3															
Reach Overhead (L)	2022-01-07	<u>6.7</u>	90.1															
Reach Overhead (R)	2022-01-07	<u>7.7</u>	77. 9															
Handling (L)	2022-01-07	<u>4.1</u>	117.4															
Handling (R)	2022-01-07	<u>8.7</u>	82.5															
Fingering (L)	2022-01-07	<u>11.4</u>	96.6															
Fingering (R)	2022-01-07	<u>12.3</u>	74.1															
Climbing Stairs - 8 stairs	2022-01-07	1	66.4															
				<3	0 4	0 5	50	60	70	8) 9	0 1	00	110	12	0 1	.30	140+
PDC Ca	tegory	-	→		0	ccasi	ona	1 ³		Fr	equei	nt ⁴			Con	sta	ıt ⁵	

Coefficient of Variance. If value is underlined, CV calculated for multiple test sets. For CV > 10%, value is shaded to call attention to results that may indicate a problem in consistency or ability to perform this task.



Consistency & Effort

As a general guideline, if greater than 80% of the evaluee's repeated tests showed a co-efficient of variance less than 10-15%, the assessment results are considered valid. If less than 80% of the evaluee's repeated tests showed a co-efficienct of variance less than 10-15%, the assessments results are considered invalid. However, consideration is given to other factors including; completion of all tests, exaggerated body mechanics/effort, consistency between formal testing vs. observation and competitive tendencies.



Consistency & Effort

Mr. Mo Degrass demonstrated an undetermined effort in this evaluation, with 18 out of 29 consistency measures recorded as reliable (62%). (Unreliable measures show "Marginal" or "No" in the **Reliable** column i Table 1, below.)

Table 1 – Reliability and Consistency of Effort								
Test	Result	Expected	Measure	Reliable				
Position 1 - Left	28.8%	< 15%	CV	No				
Position 1 - Right	25.7%	< 15%	CV	No				
Position 2 - Left	13.3%	< 15%	CV	Yes				
Position 2 - Right	10.7%	< 15%	CV	Yes				
Position 3 - Left	19.7%	< 15%	CV	Marginal				
Position 3 - Right	11.7%	< 15%	CV	Yes				
Position 4 - Left	13.6%	< 15%	CV	Yes				
Position 4 - Right	26.7%	< 15%	CV	No				
Position 5 - Left	9.2%	< 15%	CV	Yes				
Position 5 - Right	26.7%	< 15%	CV	No				
5-Position Grip Left	2	2 or 3	Peak	Yes				
5-Position Grip Left	9.2	> 7.5	SD	Yes				
Peak Grip vs. Norm Left	71.0 lb	> 67.9	2*SD	Yes				
5-Position Grip Right	2	2 or 3	Peak	Yes				
5-Position Grip Right	7.9	> 7.5	SD	Marginal				
Peak Grip vs. Norm Right	58.3 lb	> 77.4	2*SD	No				
Walking	3.8%	< 10%	CV	Yes				
Carrying 10 Lb	3.6%	< 10%	CV	Yes				
Reach Immediate (Front) Right	11.1%	< 10%	CV	Marginal				
Reach Immediate (Front) Left	13.2%	< 10%	CV	Marginal				
Reach Overhead (Front) Right	7.8%	< 10%	CV	Yes				
Reach Overhead (Front) Left	6.7%	< 10%	CV	Yes				
Handling Right	8.7%	< 10%	CV	Yes				
Handling Left	4.1%	< 10%	CV	Yes				
Fingering Right	12.4%	< 10%	CV	Marginal				
Fingering Left	11.5%	< 10%	CV	Marginal				
Climbing Stairs	1.0%	< 10%	CV	Yes				
Push	7.0%	< 15%	CV	Yes				
Pull	2.0%	< 15%	CV	Yes				



FAE QUESTIONS



Questions Addressed from FAE

An FAE does NOT address questions regarding *diagnosis* An FAE determines if the patient substantially satisfied the essential physical tasks to perform their:

Pre-accident employment tasks

Pre-accident activities of daily living

An FAE can make recommendations re:

modified or graduated return to work Physical restrictions related to RTW



WHEN IS AN FAE INDICATED?



Indications for an FAE

Income Replacement Determination

Patient continues to be of off work and the pre-accident vocation consists of physical and/or repetitive components.

Due to severity of injuries, clarification is required as to whether the patient will be able to return to their pre-accident vocation. If not, physical ability parameters are proposed so that VOC assessor can propose other occupations.

Housekeeping & Home Maintenance Determination

This benefit is usually addressed by an OT in the home environment FAE may be indicated if there is physical requirement outside the "normal" as aspects of ADL's (i.e. large property with more physical home maintenance requirements)

Determining Disability



WHEN IS AN FAE NOT INDICATED?



FAE Not Indicated

When the accident related condition is unstable

- Pre or post-operatively
- Unstable medical conditions (i.e. cardiac or neurological)

Certain populations or pre-accident medical conditions

Elderly may not be able to perform the majority of FAE tests Pre-accident medical conditioning puts the patient at risk Pregnancy

Specific scenarios based on careful review of the file

Injuries are relatively minor and pre-accident job is sedentary Injuries are very severe and job physically straining – FAE may be deferred until condition has improved and RTW is more feasible



FAE Not Indicated

 In most cases, with a good understanding of the file & injuries, the decision whether an FAE is required becomes easier.



COVID-19

The appropriate precautions were implemented during this assessment which included the following: •Administration of Covid-19 Screening Questionnaire

- •Social distancing measures implemented in waiting room and assessment office (when possible)
- •Personal Protective Equipment (PPE) provided to the evaluee (mask and surgical gloves)
- •Sneeze guards installed in assessment office

The following table is a summary/outcome of the screening measures implemented in the assessment of the claimant:

Screening/Protective Measure	Outcome
Temperature (measured using infrared touchless thermometer)	36.5 Celsius
Covid-19 Screening Questionnaire	Administered – no risk factors identified
PPE – Surgical Gloves	Provided
PPE – Face covering/mask	Brought own



What to look for in a good FAE report

- All the key load and frequency tests are administered
- Primary conclusion should be gathered from objective measures – Coefficients of variations and % of tests that passed validity threshold.
- Conclusions can be supplemented with informal observations if tests were attempted before terminated or just declined outright. Sitting and informal walking observations. WHY tests were not performed is documented.
- An objective report should not contain language such "pain focused" as may be perceived as biased.



Patients often think that it is better to decline the FAE tests versus completing them because they will be "forced" to go back to work.

Not true! Declining tests without effort indicates a low motivation to return to work. Attempting tests, even if they are incomplete and don't meet the job demands is much more supportive to the patient.



Common Misconceptions

Is an FAE with invalid effort still useful?

Yes! An invalid FAE documents objective measures of effort validity and assists the medical evaluator in determining whether there in in fact an injury that causes a disability or low motivation to return to work.

Often times, the performance during an FAE is consistent with the performance during an independent medical exam and the courts/adjudicators take note of consistency across multiple assessments.



Cognitive FAE's

A Cognitive Functional Capacity Evaluation assesses the functional impairment of a subject's memory, attention, planning, problem solving, learning, impulsivity and tolerance for multiple demands in addition to physical demands tested in conventional FAE's

Administer appropriate quantitative and qualitative standardized tests and measures.



QUESTIONS?

