The MMA Training Bible's Guide to Performance Testing in MMA:



By. Dr. Jason Gillis

DATA COLLECTION BOOK

Health Screening

All pages of this questionnaire should be completed. This information allows the coach/leader/supervisor to determine if it is safe for the volunteer to participate, or whether medical advice is required before proceeding. The information provided also gives a suitable history should a medical examination be required for particular health interventions. If required, the additional medical examination report is completed by an Independent Medical Officer and stapled to this document. It is very important that all volunteers answer all of the questions fully, and to the best of their knowledge.

Volunteers are not to participate until the details in this completed form have been checked and countersigned by the coach/leader/supervisor. All information provided is treated as medical -inconfidence. If you have a particularly sensitive response to any of the questions that you would rather not divulge in this record please mark the questions appropriately, and we may be able to arrange for you to discuss this directly, and in confidence, with an appropriately qualified person.

Participant's Details

Full Name Telephone Number					
Date of E	Birth Date Date				
Q1	How would you describe your current physical fitness status?				
Very unfit (sedentary) / Unfit / Moderately Fit / Very Fit (e.g. competitive sportsperson)*					
Q2	Do you undertake regular physical exercise? Yes / No* If Yes Please tell us what type of exercise?				

Light activities: heart beats slightly faster than usual, you can talk/sing while you are active (walking leisurely, stretching, vacuuming or light gardening)

Moderate activities: your heart beats faster than normal, you can talk while you are active (fast walking, aerobics, strength training, swimming gently)

Vigorous activities: your heart rate increases a lot, you cannot talk or your talking is broken up by large breaths while you are active (stair machine, jogging or running, tennis, squash, badminton, basketball, cycling)

breaths v	while you are active (stair machine, jogging or running, tennis, squash, badminton, basketball, cycling)					
Q3	How frequently do you exercise?					
Q4	How often do you undertake exercise of a maximal nature? Never / Sometimes					
/Often* (Q5 How would you consider your present body weight?					
	Underweight / Ideal weight / Slightly overweight / Very overweight*					
Q6	Are you a regular smoker? Yes / No* – if yes number per day					
Q7	Are you an occasional smoker? Yes / No* – if yes average per week					
Q8	Are you a previous smoker? Yes / No* – if yes how long since stopping years					
Q9	Do you drink alcoholic drinks? Yes / No*					
	If yes do you: have the occasional drink? Yes / No*					
	Have a drink every day? Yes / No*					
Q10	Have you had to consult your doctor within the last 6 months? Yes / No* – if yes give details					
Q11	Do you have any allergies? Yes / No* If Yes, please give details.					
Q12	Are you currently taking any form of medication including both prescribed and					
over						
	the counter preparations? Yes / No* – if yes give details					
Q13	Have you routinely taken any medication in the past 2 years? Yes / No* – if yes give details					
Q14	Have you ever been told to give up sports because of health problems? Yes / No^* – if yes give					
details						
Q15	Do you get tired more quickly than your friends do during exercise? Yes / No* – if yes give details					

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Q 16 Have you ever been told you have a heart murmur? Yes / No* – if yes give details

Q17 Have you ever suffered from any of the following?

Asthma Yes / No*

Diabetes Yes / No*

Hypertension (high blood pressure) Yes / No* Any form of heart disorder Yes / No*

High blood cholesterol Yes / No*

Epilepsy Yes / No*

Have you ever had a seizure Yes / No* Fainting Yes / No*

If yes to any of the above, please give full details of the condition / episode so that we can determine whether it is safe for you to participate in the activity, or if we need to seek medical advice:

If you reported "yes" to asthma, have you been prescribed any medication for this in the past 4 years, and if so, what have you been prescribed specifically, and how often/when do you use the medication?

Q18	Have you ever been told you have a heart arrhythmia? Yes / No* – if yes give details
Q19	Do you have any other history of heart problems? Yes / No* – if yes give details
Q20	Have you had a severe viral infection (e.g. myocarditis or mononucleosis) within the last month? Yes / No* – if yes give details
	res / NO — II yes give details
Q21	Have you ever been told you had rheumatic fever? Yes / No * – if yes give details
Q22	Have you ever suffered from the following?
	Heat stroke, heat exhaustion or sunstroke Yes / No*
	Cold Illness or injury (non-freezing cold injury or frostbite) Yes / No*
	Poor Circulation (including Raynauds phenomenon) Yes / No*
	Peripheral neuropathy Yes / No*
	If yes, please give details
Q23	Please give details of any overnight hospital admissions you have had
Q24 details	Have you any other past medical history we have not asked you about? Yes / No* – if yes give
Q25	Do you have any muscle, joint or back injury at present? Yes / No* – if yes give details
Q26	Have you had to suspend any normal activity due to ill health or injury in the last month? Yes / No* – if yes give details
Q27 details	Is there a history of heart disease or sudden cardiac death in your family? Yes/No* if so give
Q28	Are both parents still alive? Yes / No* If No, please give cause of death and age.
Q29 details	Does any of your parents or brother/sister suffer from a serious medical condition? If so give
Q30	Do you suffer from, or have you ever suffered from the following
	Chest pain Yes / No*
	Chest pain on exercising Yes / No*
	Unexpected breathlessness on exertion Yes / No* Undue dizziness on exertion Yes / No*
	Collapse whilst exercising Yes / No*
	Palpitations (irregular heart beat) Yes / No*

If you have answered yes to any of the above questions, please give details.

	yone in your immediate family (parent, child or brother/sister) less than 50 years of age:							
	Been treated for recurrent fainting? Yes / No*							
	Had unexplained seizure problems? Yes / No*							
	Had unexplained drowning while swimming? Yes / No*							
	Had unexplained car accident? Yes / No*							
	Had heart transplant? Yes / No*							
	Had neart transplant? Yes / No* Had pacemaker or defibrillator implanted? Yes / No*							
	Been treated for irregular heart beat? Yes / No*							
	Had heart surgery? Yes / No*							
If you have a	answered yes to any of the above questions, please give details.							
022	Are very a lettered along and Very / Nie *							
Q32	Are you a blood donor? Yes / No*							
	If yes, have you donated blood in the last week? Yes / No*							
Q33	For females (only required for studies involving thermal stress, hypoxia and arduous exercise).							
	Please state here whether you may be pregnant:							
	Not pregnant Unsure Pregnant*							
Q34	To the best of your knowledge are there any other reason(s) that may prevent you							
from								
	successfully completing the tasks that have been explained to you by the							
leader/coacl								
	supervisor? Yes / No* If yes, please give details							
	Contact Details: Please supply the name, address and telephone number of an emergency							
contact: (ple	ease print)							
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contact: (plead Name	Relationship							

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Name of Person taking consent

Participant information sheet for testing

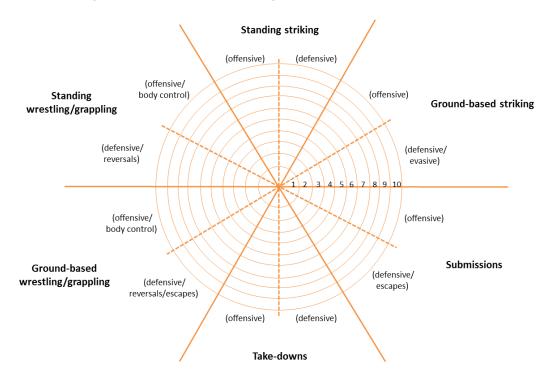
i ai cici,	pane mioi macion snec	t for testing
Date: Tester:	Co-workers:	
you should sign the consent form.	If you have any query, or are u	e part, as a participant, in the testing then unsure or uncertain about anything, then are completely happy to volunteer.
muscle endurance, strength, por composition and flexibility using documentation. All potential volun	wer, anaerobic endurance, aer g a series of field testing pr teers must currently be engaging	ills using questionnaires, and to measure robic endurance, agility, body size and rotocols outlined in the accompanying g in regular physical activity - please ask if may be exacerbated by the field tests will
one can attempt to dissuade you.	If you ever require any further e	u do not have to give any reason, and no explanation, please do not hesitate to ask. n confidential as to your identity, unless
CONSENT FORM		
I confirm that I have had th have been answered satisfact	e opportunity to consider the intorily. pation is voluntary and that I are legal rights being affected.	nation sheet for the above testing session. Information, ask questions and that these arm free to withdraw at any time without
Name of Participant:	Date:	Signature:

Signature:

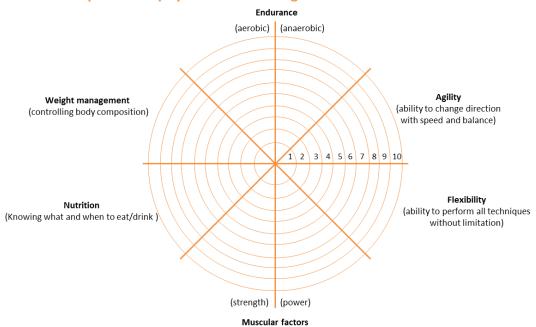
Date:

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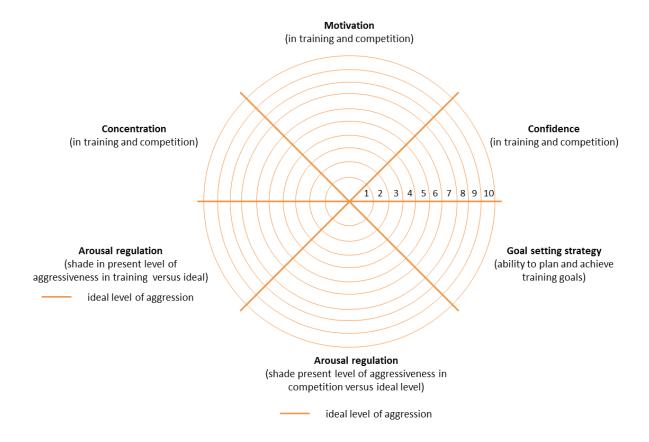
Performance profile for technical development



Performance profile for physical conditioning



Performance profile for psychological skills



The Brunel Mood Scale Questionnaire

Below is a list of words that describe feelings people have. Please read each one carefully and then circle the answer that best describes **HOW YOU FEEL RIGHT NOW**. Make sure you respond to every word.

	Not at all	A little	Moderately	Quite a bit	Extremely	SCORING FOR THE BRUMS-32 (Add the responses for the responses to each of the subscales)	
1. Active	0	1	2	3	4	Subscale	Scores Total
2. Alert	0	1	2	3	4		
3. Angry	0	1	2	3	4	Angor	ANGRY (3)+ ANNOYED (4) +
4. Annoyed	0	1	2	3	4	Anger	BAD TEMPERED (6) + BITTER (7)
5. Anxious	0	1	2	3	4		
6. Bad tempered	0	1	2	3	4		
7. Bitter	0	1	2	3	4	Tension	ANXIOUS (5)+ NERVOUS (20) +
8. Calm	0	1	2	3	4	rension	PANICKY (21) + WORRIED (30)
9. Cheerful	0	1	2	3	4		
10. Composed	0	1	2	3	4		DEDDECCION (42)
11. Confused	0	1	2	3	4	Damuasian	DEPRESSION (13) + DOWNHEARTED
12. Contented	0	1	2	3	4	Depression	(14) + MISERABLE (19) + UNHAPPY (28)
13. Depressed	0	1	2	3	4		(28)
14. Downhearted	0	1	2	3	4		
15. Energetic	0	1	2	3	4	\/:	ACTIVE (1)+ ALERT (2)+
16. Exhausted	0	1	2	3	4	Vigour	ENERGETIC (15) + LIVELY (18)
17. Нарру	0	1	2	3	4		
18. Lively	0	1	2	3	4		
19. Miserable	0	1	2	3	4	Fatiana	EXHAUSTED (16) + SLEEPY (25) +
20. Nervous	0	1	2	3	4	Fatigue	TIRED (26) + WORN-OUT (29)
21. Panicky	0	1	2	3	4		
22. Relaxed	0	1	2	3	4		
23. Restful	0	1	2	3	4	Confirming	CONFUSED (11) + UNCERTAIN (27) +
24. Satisfied	0	1	2	3	4	Confusion	MIXED-UP (31) + MUDDLED (32)
25. Sleepy	0	1	2	3	4		
26. Tired	0	1	2	3	4		
27. Uncertain	0	1	2	3	4	llar	CHEERFUL (9) + CONTENT (12) +
28. Unhappy	0	1	2	3	4	Нарру	HAPPY (17)+ SATISFIED (24)
29. Worn-out	0	1	2	3	4		
30. Worried	0	1	2	3	4		CALAA (0)
31. Mixed-up	0	1	2	3			CALM (8) + COMPOSED (10) +
32. Muddled	0	1	2	3	4	•	RELAXED (22) + RESTFUL (23)

Total your scores here:

Sub-scales of the BRUMS	Current score	Goal
Anger		Maintain
Tension		
Depression		
Vigour		
Fatigue		
Confusion		
Нарру		
Calmness		

Sit and Reach Test

Attempt	Sit-and-reach score
Trial 1	
Trail 2	
Best score:	
Comments	

Body Size and Composition

Date of Birth

Measure no.	1	2	3	Average
Body mass (kg)				
Stretch stature (cm)				
BMI	-	-		
Triceps skin fold				
Subscapular skin fold				
Biceps skin fold				
Iliac Crest skin fold				
<u>Supraspinale</u> skin fold				
Abdominal skin fold				
Front Thigh skin fold				
Medial Calf skin fold				
SUM OF 8 SKINFOLDS				
Chest girth (cm)				
Arm girth relaxed (cm)				
Arm girth flexed and tensed (cm)				
Waist girth (cm)				
Gluteal girth (cm)				
Calf girth (cm)				

Body Size and Composition Measurement sites

Chest



Participant stand with arms raised to sides. Measure at the mid-level of the sternum after the participant lowers their arms by their side and at the end of an exhale.

Arm Girth (Relaxed)



Participant stands relaxed with arms hanging at sides. Measure right arm at a marked spot that is half way up the upper arm.

Arm Girth (Flexed)



Participant stands with right arm raised such that it is horizontal with the ground and the palm is facing inwards. Ask the participant to flex and measure at the peak of the bicep.

Waist Girth



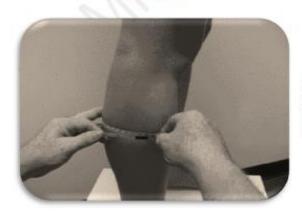
Participant stands with arm folded. Take measurement at the narrowest point between the lowest rib and the hip bone, after the participant relaxed and lowers their hands by their sides, and at the end of an exhale.

Gluteal Girth



Participant stands with arm folded and feet together. Take the measurement at the largest point, which may correspond to the level of the pubic bone.

Calf Girth



Participant stands with arms relaxed hanging by sides. Take the measurement at the biggest part of the calf

TRICEPS SKINFOLD



Landmark

The most posterior part of the triceps when viewed from the side at the marked midacromiale-radiale level.



Pinch

The arm should be relaxed with the palm of the hand facing forwards. A vertical pinch is made.

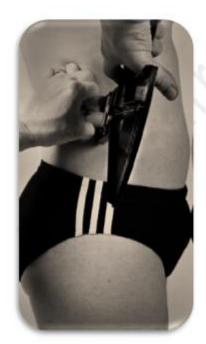
Other information. If you are unsure if you have pinched only skin and no underlying muscle tissue, ask the subject to flex the muscle while you have a pinch (ISAK, 2001).

ILIAC CREST SKINFOLD



Landmark

Immediately above the iliac crest (top of hip bone), on the most lateral aspect (side).

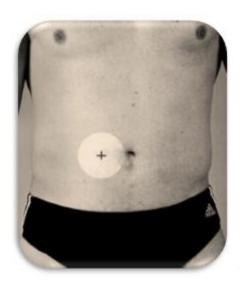


Pinch

The fold is directed anteriorly and downward in line with the natural fold of the skin. The right arm should be held across the body to keep it away from the measurement area.

Other information see (ISAK, 2001).

ABDOMINAL SKINFOLD

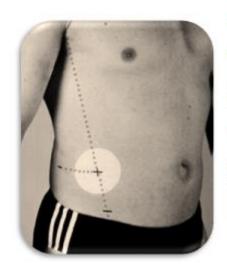


Landmark
5 cm to the right of the mid-point of the navel.



Pinch
Vertical pinch

SUPRASPINALE SKINFOLD



Landmark

The site is at the intersection of the two lines

Step 1: Landmark iliospinale. The underside of the front of the hip bone

Step 2: Draw line straight form the top of the hip

Step 3: Draw line from armpit to Step1 line. Take measure at intersection of lines.



Pinch

The fold is directed anteriorly and downward in line with the natural fold of the skin. The right arm should be held across the body to keep it away from the measurement area.

Other information see ISAK (2001).

FRONT THIGH SKINFOLD



Landmark

At the mid-point of the distance between the inguinal fold and the anterior surface of the patella on the mid-line of the thigh



Pinch

Vertical pinch.



Other information: If the fold is difficult to raise, ask the participant to lift the underside of the thigh with both hands (ISAK 2001).

SUBSCAPULAR SKINFOLD



Landmark

The site is 2 cm along a line running laterally and obliquely downward from the Subscapulare landmark (which is the undermost tip of the inferior angle of the scapula) at a 45° angle.



Pinch

The pinch is made following the natural fold of the skin. On a line running laterally (away from the body) and downwards (at about 45 degrees).

Other information. see ISAK (2001)

MEDIAL CALF SKINFOLD



Landmark

The most medial aspect of the calf at the level of the maximal girth.



Pinch

Vertical pinch when knee is bent at 90° and the foot rests on a box.

Other information. If the fold is difficult to <u>raise</u>, ask the participant to lift the underside of the thigh with both hands (ISAK 2001).

BICEPS SKINFOLD



Landmark

At the most anterior part, mid-acromiale-radale level.



Pinch

The arm should be relaxed with the palm of the hand facing forwards, shoulder externally rotated. A vertical pinch, parallel to the long axis of the arm, is made at the landmark.

Other information. If you are unsure if you have pinched only skin and no underlying muscle tissue, ask the subject to flex the muscle while you have a pinch (ISAK, 2001).

Vertical jump test

	1	2	3	Average
Jump height (cm)				

Seated medicine ball throw

_	1	2	3	Average
Throw distance (cm)				

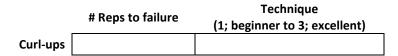
Bench press

_	5 RM	3 RM	Technique (1; beginner to 3; excellent)
Weight (kg)			
No. of repetitions			
5 and 3 RM Squat			

Squat

	5 RM	3 RM	Technique (1; beginner to 3; excellent)
Weight (kg)			
No. of repetitions			

Curl-up test



Push-up test

	# Reps to failure	Technique (1; beginner to 3; excellent)
Push-ups		

Running-based Anaerobic Sprint Test

Starting HR (beats.min ⁻¹)						
			Spi	rint		
	1	2	3	4	5	6
Time (s) to complete 35 m sprint						

Ending HR (beats.min ⁻¹)	
+5 min HR (beats.min ⁻¹)	

The Balke 15 min track run

Starting HR (beats.min ⁻¹)	
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Lap number	Distance (m)	Time (s)
1	400	
2	800	
3	1200	
4	1600	
5	2000	
6	2400	
7	2800	
8	3200	
9	3600	
10	4000	
11	4400	
12	4800	
13	5200	

Total	Distance	achieved	in 15	minutes:	

Ending HR (beats.min ⁻¹)	
+5 min HR (beats.min ⁻¹)	

The Fighter's Drill

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