The PARmed-X is a physical activity-specific checklist to be used by a physician with patients who have had positive responses to the Physical Activity Readiness Questionnaire (PAR-Q). In addition, the Conveyance/Referral Form in the PARmed-X can be used to convey clearance for physical activity participation, or to make a referral to a medically-supervised exercise program.

PARmed-X PHYSICAL ACTIVITY READINESS MEDICAL EXAMINATION

Regular physical activity is fun and healthy, and increasingly more people are starting to become more active every day. Being more active is very safe for most people. The PAR-Q by itself provides adequate screening for the majority of people. However, some individuals may require a medical evaluation and specific advice (exercise prescription) due to one or more positive responses to the PAR-Q.

Following the participant's evaluation by a physician, a physical activity plan should be devised in consultation with a physical activity professional (CSEP-Professional Fitness & Lifestyle Consultant or CSEP-Exercise Therapist[™]). To assist in this, the following instructions are provided:

PAGE 1: • Sections A, B, C, and D should be completed by the participant BEFORE the examination by the physician. The bottom section is to be completed by the examining physician.

PAGES 2 & 3: • A checklist of medical conditions requiring special consideration and management.

- **PAGE 4:** Physical Activity & Lifestyle Advice for people who do not require specific instructions or prescribed exercise.
 - Physical Activity Readiness Conveyance/Referral Form an optional tear-off tab for the physician to convey clearance for physical activity participation, or to make a referral to a medically-supervised exercise program.

PERSONAL INFORMATION:	PAR-Q: Please indicate the PAR-Q questions to which you answered YES				
NAME	 Q 1 Heart condition Q 2 Chest pain during activity Q 3 Chest pain at rest Q 4 Loss of balance, dizziness Q 5 Bone or joint problem Q 6 Blood pressure or heart drugs Q 7 Other reason: 				
MEDICAL No					
 C RISK FACTORS FOR CARDIOVASCULAR DISEASE: Check all that apply Less than 30 minutes of moderate physical activity most days of the week. C Lurrently smoker (tobacco smoking 1 or more times per week). High blood pressure reported by physician. Family history of heart disease. Please note: Many of these risk factors are modifiable. Please refer to page 4 and discuss with your physician. What physical activity do you intend to do? 					
	Physical Activity Readiness Conveyance/Referral:				
Ht Wt BP i) / BP ii) /	Based upon a current review of health status, I recommend: No physical activity Based upon a current review of health Gamma Commend:				
Conditions limiting physical activity: Cardiovascular Respiratory Musculoskeletal Abdominal	 Only a medically-supervised exercise program until further medical clearance Progressive physical activity: with avoidance of: with inclusion of: 				
Tests required:Image: ECGImage: Exercise TestImage: X-RayImage: BloodImage: UrinalysisImage: Other	 under the supervision of a CSEP-Professional Fitness & Lifestyle Consultant or CSEP-Exercise Therapist™ Unrestricted physical activity–start slowly and build up gradually 				



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PARmed-X PHYSICAL ACTIVITY READINESS MEDICAL EXAMINATION

Following is a checklist of medical conditions for which a degree of precaution and/or special advice should be considered for those who answered "YES" to one or more questions on the PAR-Q, and people over the age of 69. Conditions are grouped by system. Three categories of precautions are provided. Comments under Advice are general, since details and alternatives require clinical judgement in each individual instance.

	Absolute Contraindications	Relative Contraindications	Special Prescriptive Conditions	
	Permanent restriction or temporary restriction until condition is treated, stable, and/or past acute phase.	Highly variable. Value of exercise testing and/or program may exceed risk. Activity may be restricted. Desirable to maximize control of condition. Direct or indirect medical supervision of exercise program may be desirable.	 Individualized prescriptive advice generally appropriate: limitations imposed; and/or special exercises prescribed. May require medical monitoring and/or initial supervision in exercise program. 	ADVICE
Cardiovascular	 aortic aneurysm (dissecting) aortic stenosis (severe) congestive heart failure crescendo angina myocardial infarction (acute) myocarditis (active or recent) pulmonary or systemic embolism—acute thrombophlebitis ventricular tachycardia and other dangerous dysrhythmias (e.g., multi-focal ventricular activity) 	 aortic stenosis (moderate) subaortic stenosis (severe) marked cardiac enlargement supraventricular dysrhythmias (uncontrolled or high rate) ventricular ectopic activity (repetitive or frequent) ventricular aneurysm hypertension—untreated or uncontrolled severe (systemic or pulmonary) hypertrophic cardiomyopathy compensated congestive heart failure 	 aortic (or pulmonary) stenosis—mild angina pectoris and other manifestations of coronary insufficiency (e.g., post-acute infarct) cyanotic heart disease shunts (intermittent or fixed) conduction disturbances complete AV block left BBB Wolff-Parkinson-White syndrome dysrhythmias—controlled fixed rate pacemakers intermittent claudication hypertension: systolic 160-180; diastolic 105+ 	 clinical exercise test may be warranted in selected cases, for specific determination of functional capacity and limitations and precautions (if any). slow progression of exercise to levels based on test performance and individual tolerance. consider individual need for initial conditioning program under medical supervision (indirect or direct). progressive exercise to tolerance progressive exercise; care with medications (serum electrolytes; post-exercise syncope; etc.)
Infections	 acute infectious disease (regardless of etiology) 	 subacute/chronic/recurrent infectious diseases (e.g., malaria, others) 	 chronic infections HIV 	variable as to condition
Metabolic		 uncontrolled metabolic disorders (diabetes mellitus, thyrotoxicosis, myxedema) 	 renal, hepatic & other metabolic insufficiency obesity single kidney 	variable as to status dietary moderation, and initial light exercises with slow progression (walking, swimming, cycling)
Pregnancy		 complicated pregnancy (e.g., toxemia, hemorrhage, incompetent cervix, etc.) 	 advanced pregnancy (late 3rd trimester) 	refer to the "PARmed-X for PREGNANCY"

References:

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 Proceedings of the International Conference on Physical
 Activity, Fitness and Health. Champaign, IL: Human Kinetics.

PAR-Q Validation Report, British Columbia Ministry of Health, 1978.

Thomas, S., Reading, J., Shephard, R.J. (1992). Revision of the Physical Activity Readiness Questionnaire (PAR-Q). Can. J. Spt. Sci. 17: 4 338-345. The PAR-Q and PARmed-X were developed by the British Columbia Ministry of Health. They have been revised by an Expert Advisory Committee of the Canadian Society for Exercise Physiology chaired by Dr. N. Gledhill (2002).

No changes permitted. You are encouraged to photocopy the PARmed-X, but only if you use the entire form.

Disponible en français sous le titre «Évaluation médicale de l'aptitude à l'activité physique (X-AAP)»

	Special Prescriptive Conditions	ADVICE	
Lung	chronic pulmonary disorders	special relaxation and breathing exercises	
	 obstructive lung disease asthma 	breath control during endurance exercises to tolerance; avoid polluted air	
	exercise-induced bronchospasm	avoid hyperventilation during exercise; avoid extremely cold conditions; warm up adequately; utilize appropriate medication.	
Musculoskeletal	Iow back conditions (pathological, functional)	avoid or minimize exercise that precipitates or exasperates e.g., forced extreme flexion, extension, and violent twisting; correct posture, proper back exercises	
	arthritis—acute (infective, rheumatoid; gout)	treatment, plus judicious blend of rest, splinting and gentle movement	
	□ arthritis—subacute	progressive increase of active exercise therapy	
	 arthritis—chronic (osteoarthritis and above conditions) 	maintenance of mobility and strength; non-weightbearing exercises to minimize joint trauma (e.g., cycling, aquatic activity, etc.)	
	orthopaedic	highly variable and individualized	
	🗅 hernia	minimize straining and isometrics; stregthen abdominal muscles	
	osteoporosis or low bone density	avoid exercise with high risk for fracture such as push-ups, curl-ups, vertical jump and trunk forward flexion; engage in low-impact weight-bearing activities and resistance training	
CNS Cnvulsive disorder not completely controlled by medication		minimize or avoid exercise in hazardous environments and/or exercising alone (e.g., swimming, mountainclimbing, etc.)	
	recent concussion	thorough examination if history of two concussions; review for discontinuation of contact sport if three concussions, depending on duration of unconsciousness, retrograde amnesia, persistent headaches, and other objective evidence of cerebral damage	
Blood	anemia—severe (< 10 Gm/dl)	control preferred; exercise as tolerated	
	electrolyte disturbances		
Medications	 antianginal antiarrhythmic antihypertensive anticonvulsant beta-blockers digitalis preparations diuretics ganglionic blockers others 	NOTE: consider underlying condition. Potential for: exertional syncope, electrolyte imbalance, bradycardia, dysrhythmias, impaired coordination and reaction time, heat intolerance. May alter resting and exercise ECG's and exercise test performance.	
Other	post-exercise syncope	moderate program	
	heat intolerance	prolong cool-down with light activities; avoid exercise in extreme heat	
	temporary minor illness	postpone until recovered	
	□ cancer	if potential metastases, test by cycle ergometry, consider non-weight bearing exercises; exercise at lower end of prescriptive range (40-65% of heart rate reserve), depending on condition and recent treatment (radiation, chemotherapy); monitor hemoglobin and lymphocyte counts; add dynamic lifting exercise to strengthen muscles, using machines rather than weights.	

*Refer to special publications for elaboration as required

The following companion forms are available online: http://www.csep.ca/forms.asp

The Physical Activity Readiness Questionnaire (PAR-Q) - a questionnaire for people aged 15-69 to complete before becoming much more physically active.

The **Physical Activity Readiness Medical Examination for Pregnancy (PARmed-X for PREGNANCY)** - to be used by physicians with pregnant patients who wish to become more physically active.

For more information, please contact the:

Canadian Society for Exercise Physiology 202 - 185 Somerset St. West Ottawa, ON K2P 0J2 Tel. 1-877-651-3755 • FAX (613) 234-3565 • Online: www.csep.ca



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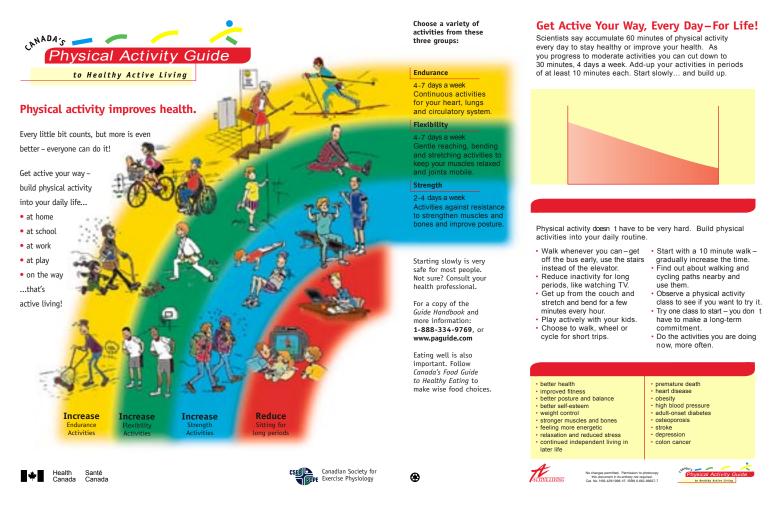
Continued on page 4...

Physical Activity Readiness Medical Examination (revised 2002)

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PARmed-X PHYSICAL ACTIVITY READINESS MEDICAL EXAMINATION



Source: Canada's Physical Activity Guide to Healthy Active Living, Health Canada, 1998 http://www.hc-sc.gc.ca/hppb/paguide/pdf/guideEng.pdf © Reproduced with permission from the Minister of Public Works and Government Services Canada, 2002.

PARmed-X Physical Activity Readiness Conveyance/Referral Form

Ba	sed upon a current review of the health status of	, I recommend:
	No physical activity	Further Information:
	Only a medically-supervised exercise program until further medical clearance	□ Attached
	Progressive physical activity	To be forwardedAvailable on request
	with avoidance of:	Physician/clinic stamp:
	with inclusion of:	_
	under the supervision of a CSEP-Professional Fitness &	
	Lifestyle Consultant or CSEP-Exercise Therapist™	
	Unrestricted physical activity — start slowly and build up gradually	
		NOTE: This physical activity clearance is valid
	M.D.	for a maximum of six months from the date it is completed and becomes invalid if your
	20	medical condition becomes worse.
Λ	(date)	