PARMEG-X PHYSICAL ACTIVITY READINESS MEDICAL EXAMINATION

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.

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 (CSEPÁÔ^\cap\delta^\delta\delta^\delta\delta^\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\delta\

- **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.

PAR-Q:

This section to be completed by the participant

NAME				-	Q 1	Heart condition	
ADDRESS					Q 2	Chest pain during a	ctivity
7.551.200					Q 3	Chest pain at rest	•
					Q 4	Loss of balance, diz	zziness
TELEBUONE					Q 5		
TELEPHONE				· 🗀	Q 6	Blood pressure or h	eart drugs
BIRTHDATE			GENDER	. •	Q 7	Other reason:	
MEDICAL No				-			
RISK FACT		ARDIOVAS	SCULAR DISEA	SE:		D PHYSIC INTENT	AL ACTIVITY
Less than 30 min activity most daysCurrently smoker	s of the week.		Excessive accuratewaist.Family history			d What physical ac	tivity do you intend to do?
more times per w	•	Ü					
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Please indicate the PAR-Q questions to

PERSONAL INFORMATION:

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: Imitations 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) 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:

Arraix, G.A., Wigle, D.T., Mao, Y. (1992). Risk Assessment of Physical Activity and Physical Fitness in the Canada Health Survey Follow-Up Study. J. Clin. Epidemiol. 45:4 419-428.

Mottola, M., Wolfe, L.A. (1994). Active Living and Pregnancy, In: A. Quinney, L. Gauvin, T. Wall (eds.), Toward Active Living: 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)»

Continued on page 3...

	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	☐ low 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	□ convulsive 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: www.csep.&aD ` à|&aa } •

The Physical Activity Readiness Questionnaire (PAR-Q) - a questionnaire for people aged 15-69 to complete before becoming much more physically $\text{actic} \land \text{E}() \land \text{e} \land \text{f} \land \text{e} \land \text{f} \land \text{e} \land \text{f} \land \text{e} \land \text{e}$

For more information, please contact the:

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Note to physical activity professionals...

It is a prudent practice to retain the completed Physical Activity Readiness Conveyance/Referral Form in the participant's file.



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Health Santé Canada Canada

PARmed-X PHYSICAL ACTIVITY READINESS MEDICAL EXAMINATION



Get Active Your Way, Every Day-For Life!

Scientists say accumulate 60 minutes of physical activity every day to stay healthy or improve your health. As you progress to moderate activities you can cut down to 30 minutes, 4 days a week. Add-up your activities in periods of at least 10 minutes each. Start slowly... and build up.

Time needed depends on effort Very Light Light Effort Moderate Effort Vigorous Effort Effort 60 minutes 30-60 minutes 20-30 minutes Maximum Light walking Volleyball Biking Easy gardening Raking leaves Stratching Symming SprintingRacing Aerobics Swimming Dancing Range needed to stay healthy

You Can Do It – Getting started is easier than you think

Physical activity doesn t have to be very hard. Build physical activities into your daily routine

- Walk whenever you can get off the bus early, use the stairs instead of the elevator.
- Reduce inactivity for long
- Get up from the couch and stretch and bend for a few

- · Start with a 10 minute walk-
- gradually increase the time. Find out about walking and cycling paths nearby and use them.
- Observe a physical activity
- class to see if you want to try it. Try one class to start - you don t have to make a long-term commitment.
- Do the activities you are doing now, more often

Benefits of regular activity: Health risks of inactivity:

- continued independent living in
- premature death heart disease
- obesity high blood pressure
- adult-onset diabetes
- osteoporosis stroke
- depression
- colon cancer



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

Bas	sed upon a current review of the nealth status of		, I recommena:
	No physical activity Only a medically-supervised exercise program until further medical clearance		Further Information:
0	Progressive physical activity		☐ To be forwarded ☐ Available on request
	□ with avoidance of:	Physician/clinic stamp:	
	□ with inclusion of:		
	under the supervision of a CSEPÁÔ^¦æãååÁÒ¢^¦&ã ^ÁÚ@•ã[[*ã ɗ		
	Unrestricted physical activity — start slowly and build up gradually		
		NOTE: This physica	l activity clearance is valid

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M.D.

for a maximum of six months from the date it is completed and becomes invalid if your medical condition becomes worse.