Learn how to organize, promote and present a fitness screening developed by American Physical Therapy Association for Special Olympics Healthy Athletes®
Dear Colleague,

Welcome to FUNfitness, the fitness screening event developed by American Physical Therapy Association for Special Olympics Healthy Athletes®. We are delighted that you are part of this pioneering effort to improve the health and knowledge of Special Olympics athletes, families and coaches, and to increase the abilities of the athletes to perform in sports and in life.

Enclosed you will find the most current version of the FUNfitness Screening Manual in both hard copy and CD. The manual was developed to assist physical therapy professionals to host the fitness event. Also included are camera-ready color and black-and-white copies of the FUNfitness logo. The logo can be duplicated for public relations purposes.

Chapter 1 provides an overview of Healthy Athletes and the disciplines represented in the initiative. Chapter 2 guides the physical therapy professional through the process of developing and hosting the event. Chapter 3 provides guidelines for the tests performed by physical therapists when assessing the flexibility, functional strength, balance and aerobic fitness of Special Olympics athletes. These test instructions were written in a very detailed and specific manner for two primary reasons: 1) the clarity and specific description makes the testing self-explanatory so that only brief in-service education is needed; 2) the clarity and specific detail helps ensure standardized performance in collecting the data.

Chapter 4 was developed to assist the physical therapy professional in educating the participants, families and coaches. It contains an educational description of the muscles involved in each test, and the impact of loss of function. You may choose to use this chapter as a discussion point or as a handout for your participants. These pages may also be copied and provided to families and coaches for future instruction.

Chapter 5 includes hard copies of the multiple forms that you might need. All these forms are also on the CD so that you can modify them for your specific use. Also enclosed is a paper copy of the FUNfitness score sheet, a two-page data collection form you use at each event to record your findings. The most up-to-date score sheet is available on the Special Olympics Web site (www.specialolympics.org/funfitness). You can add information to the header of this electronic form before you print a copy for each of your events. After you perform the test or measurement on each athlete, record this measurement in the appropriate area on the form. On the basis of your professional knowledge of what is within the appropriate range for the age and participation level of each athlete, you may recommend education by checking the Education box beside the specific test. Suggested triggers to standardize education are indicated by each test. A check in an Education box will prompt instruction of the participant, his/her family and/or coach in correct exercises.
All consenting athlete data are entered into a Web-based Healthy Athletes Software System (HAS) for future evaluation. The data collected on the score sheet are the property in the aggregate of Special Olympics and individually of each Special Olympics Program. Special Olympics has granted APTA access to these data in the aggregate for research purposes. Others may also request aggregate utilization of data related to their or other events. Any requests to use the data for analysis and research in the aggregate must be made to Special Olympics after consultation with the Global Advisor regarding content and format of the request.

Also enclosed is a copy of the Athlete Scorecard, a take-home education brochure that the physical therapist gives to each athlete. It includes multiple exercise choices that are self-explanatory graphics with simple language to enhance usability by the athlete.

These 2007 versions of the manual, the score sheet and the athlete Scorecard are not the first, and certainly will not be the final, versions. We are always very interested in your feedback after you hold the FUNfitness event, so please feel free to send us ideas and comments. Updates will occur as new ideas and evidence-based information become available. Thank you for the time and commitment to your profession that you have shown with your interest in this exciting fitness event.

Sincerely,

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Chapter 1

Introduction to Healthy Athletes
INTRODUCTION

Special Olympics Healthy Athletes®
Special Olympics Healthy Athletes is designed to help Special Olympics athletes improve their health and fitness.

The ultimate goal of Healthy Athletes is to improve each athlete’s ability to train and compete in Special Olympics as well as in life.

Objectives
The key objectives of Special Olympics Healthy Athletes are as follows:

- To improve access and health care for Special Olympics athletes at event-based and other health screening clinics
- To make referrals or recommendations for follow-up to community health professionals as appropriate
- To train health care professionals, students and others about the needs and care of people with intellectual disabilities
- To collect, analyze and disseminate data on the health status and needs of people with intellectual disabilities
- To advocate for improved health policies and programs for people with intellectual disabilities

Components of Special Olympics Healthy Athletes
Special Olympics-Lions Clubs International Opening Eyes® (1991)
Special Olympics Special Smiles® (1992)
Special Olympics FUNfitness (1999)
Special Olympics Healthy Hearing (2000)
Special Olympics Health Promotion (2001)
Special Olympics Fit Feet (2003)

These health screenings and examinations are conducted at Special Olympics World Games as well as local, state or country and national Games, and occasionally at special events. Healthy Athletes screenings have provided free care to thousands of Special Olympics athletes. All Healthy Athletes screening areas maintain confidentiality of each athlete. The screening data are aggregated and assessed to improve individual athlete health, and to assist in policy recommendations and advocacy for improved health care for all Special Olympics athletes.

The Healthy Athletes initiative is supported by a grant from the Centers for Disease Control and Prevention, significant in-kind donations of health care equipment and products, monetary sponsorships from organizations such as Lions Clubs International, additional cash donations, local support from health-related organizations and industries and most important, volunteer services from thousands of healthcare professionals and students.

As a result of train-the-trainer seminars conducted since 1999 at the Special Olympics World Summer Games, Healthy Athletes is expanding rapidly worldwide. At the 2001, 2003 and 2005 Special Olympics World Games, more than 500 clinical directors were trained to implement Healthy Athletes screenings in their home states, provinces or countries.
In 1991, Special Olympics established Opening Eyes. Opening Eyes and Special Smiles jointly formed the basis of the Special Olympics Healthy Athletes initiative in 1996.

Opening Eyes conducts extensive vision screening and prescription eyeglasses and sports eyewear. Through the global partnership of Special Olympics and Lions Clubs International, Special Olympics athletes receive the following:

- Extensive vision and eye health tests
- Refraction for those requiring further screening
- Prescription eyeglasses, if needed
- Prescription protective sports eyewear, if appropriate
- Referral for follow-up care

Lions Clubs International has been committed to global blindness prevention and sight conservation programs for more than 80 years. Lions have been in the forefront of eye health initiatives, including vision screenings, free and reduced-cost eye care programs, used eyeglasses collection and Sight-First. By partnering to create Opening Eyes, the two organizations have brought eye care to more Special Olympics athletes around the world than would have been possible otherwise. The partnership has tripled the amount of quality vision care available to all Special Olympics athletes through grants to individual Special Olympics Programs worldwide. The Special Olympics-Lions Clubs International partnership uniquely serves the worldwide volunteer community. Eye health professionals who perform the technical screening are joined by volunteer Lions Club members who handle athlete registration, distribution of glasses and protective sports goggles and the less technical near and far visual acuity and color vision testing.

Special Smiles offers dental screenings, health education and prevention services, and refers athletes to potential sources of treatment and follow-up care. At a Special Smiles event, dental professionals provide the following services to athletes:

- Oral screenings
- Oral health education
- Individually fitted sports mouth guards, if needed
- Oral health education and personal prevention products
- Information concerning needed follow-up care by community-based dentists and educational institutions

Athletes and their families receive education about the importance of good oral hygiene habits, and are instructed in correct tooth brushing and flossing methods.

The Academy of General Dentistry and American Dental Association recognize credits for participation, allowing students and dentists the opportunity to gain a comfort level working with the Special Olympics population while gaining education credits.

FUNfitness provides fitness screening and education services. FUNfitness, developed by the American Physical Therapy Association, has been a part of Special Olympics events since 1999. Physical therapists, assisted by physical therapist assistants and students, provide an assessment of athlete flexibility, functional strength, balance and aerobic condition. Flexibility of hamstring, calf, shoulder rotator and hip flexor muscles; functional strength of the abdominal, upper extremity, grip and lower extremity muscles;
INTRODUCTION

Chapter 1
Introduction to Healthy Athletes

static and dynamic balance; and aerobic fitness are assessed and used as the basis for one-on-one education and on-site consultation to athletes and coaches on how to improve performance. Physical therapists also discuss with athletes, families and coaches the components of a good fitness program for risk prevention, and make recommendations for optimal function in sports training and competition so that the athletes train and compete safely.

Healthy Hearing provides external ear canal inspection, evoked otoacoustic emissions screening, tympanometry, and pure tone screening for those with identified need. Individual molded ear plugs and referral and access to hearing aids are offered at many Healthy Hearing screening events. Reduced hearing can have a significant negative impact on an athlete’s ability to compete and understand verbal information from coaches, teammates, judges and officials. Healthy Hearing assesses the hearing of individual athletes, and reports to coaches and caregivers if any follow-up care is needed.

Certified audiologists supervise Healthy Hearing screenings. Most often, volunteers include other audiologists, speech-language pathologists, special educators and graduate students in these disciplines. Healthy Hearing uses an approach similar to the model used by most school systems in the United States—athletes receive an examination of the ear canals for the presence of cerumen (earwax) and an individual hearing acuity test using an evoked otoacoustic emissions (EOAE) instrument that measures hearing without any behavioral signal from the athlete. These two steps can be accomplished in a relatively quiet area at Special Olympics events, and take only a few minutes out of the athlete’s event schedule.

If an athlete does not pass the initial screening, at least two other stations are available to assess the condition of the middle ear. The results of the screening are noted and given to the athlete and coach, accompanied by comments and professional judgments. Athletes may be referred for earwax removal, further testing of middle ear problems or management of hearing loss.

Health Promotion focuses on healthy lifestyles and the facilitation of healthy choices. In 2001, Special Olympics launched new efforts to improve the general health and fitness of its athletes. The rationale for Special Olympics to promote overall health is the long-standing awareness that people with intellectual disabilities frequently have medical conditions such as heart disease, obesity and diabetes, and that they tend to develop these conditions at earlier stages of life. Findings also show that exercise and diet can improve performance and reduce health risks.

Health Promotion uses interactive educational tools and motivational information to encourage Special Olympics athletes to improve their nutrition, keep physically active and modify lifestyles to lower disease risk. Nutritionists and dietitians educate athletes on the importance of good eating habits in a fun environment. In the sun safety component, athletes learn about the dangers of exposure to the sun and how to protect themselves while training and competing in sports. Education in tobacco cessation and the effects of smoking is provided. Bone density screening and education on strong bones are now being provided at most events.

A new component of Health Promotion is the year-round community-based emphasis on nutrition and fitness for Special Olympics athletes. Because Special Olympics is a
worldwide movement with athletes from countries at varied stages of health service development, Special Olympics Health Promotion can offer a flexible spectrum of health education, including such areas as personal safety, hygiene and avoidance of communicable disease.

The newest Healthy Athletes screening is Fit Feet, developed in collaboration with the American Academy of Podiatric Sports Medicine.

Many Special Olympics athletes suffer from foot and ankle pain or deformities that impair their performance. Also, athletes are not always fitted with the best shoes and socks for their particular sport. Healthy Athletes, in cooperation with the American Academy of Podiatric Sports Medicine, has developed the Fit Feet screening discipline to evaluate foot and ankle deformities. Athletes receive foot and ankle screening for deformities and are checked for proper shoes and socks. Athletes receive education in proper footwear and care of the feet and toes.

Healthy Athletes Software System (HAS)
In support of the Healthy Athletes initiative, Better Health Global Ltd. is creating a Web-based software application called Healthy Athletes Software System (HAS) to enable the electronic capture of screening data across the Healthy Athletes disciplines. HAS was officially launched at the 11th Special Olympics World Summer Games in Dublin, Ireland, and has been used at all events since June 2003. HAS is rapidly becoming the world’s largest and highest quality health database on people with intellectual disabilities. This database is invaluable not only for Special Olympics athlete management and administration, but also for the wider scientific and political communities.

Data capture
Each of the Healthy Athletes disciplines has a discipline-specific HAS form. These forms are readily available for clinical directors on the Special Olympics Web site or electronically from the regional Healthy Athletes coordinators, the global advisors or the managers at Special Olympics headquarters.

Several methods are used to capture the data at the screenings. At the very least, the athlete’s data are captured on a paper HAS form, then entered into the HAS Web site later. The ideal situation is to have Web access and personal computers available at the screening event for immediate data entry from paper forms. Another option is to use wireless personal data assistants, from which data can be uploaded to a personal computer or directly to the Web site.

Confidentiality
As in clinical practice, all athlete data are confidential. Access to the HAS system is password protected, and is further limited by the individual’s role in Healthy Athletes. Each athlete will be assigned a unique identifier that can be coordinated within and across all disciplines. This identifier allows confidential cataloguing of data from each screening in which an athlete participates.
Results
The HAS data collected during the 2003 and 2005 World Games were sorted by demographic and delegation factors in real time. Reports were generated for each team and each country. Each athlete received an integrated personal report card across all screening areas describing services, screening results and referral status.

Data collected from screenings are valuable to promote a change in the perception of people with intellectual disabilities, garner support from government and nongovernmental organizations, recruit volunteers and increase available information for the global research and policy-making communities.

Provider Directory
Special Olympics recently created a health care Provider Directory that enables patients with intellectual disabilities and their families to find health care professionals in their area who are willing and have the expertise to manage their care. The Provider Directory is a result of experience and research that has documented that people with intellectual disabilities have both usual and specialized health care needs, but greater difficulty accessing health care services.

APTA has endorsed this Directory as a worthwhile endeavor for physical therapists. We encourage you not only to enroll, but also to reach out and encourage enrollment of other physical therapy professionals. The Provider Directory will hopefully become the largest comprehensive list of health care providers for people with intellectual disabilities in North America.

The Provider Directory is currently online and open to all health care providers in the United States, Mexico, Canada and the Caribbean. Health care professionals sign up for the Directory on a voluntary basis, and signing up is quick and simple. You can enroll at www.specialolympics.org/(providerdirectory).

The Directory facilitates the connection between people with intellectual disabilities and health care professionals willing and able to treat them. Once the Directory is populated with health care providers, the public will be able to search the Directory to find a provider in their area who is willing to manage patients with intellectual disabilities. Special Olympics anticipates opening the Provider Directory to the public before the end of 2006. Both a hard copy and an electronic version of a flyer about the Provider Directory are included so you can distribute at meetings, conferences or by e-mail.
Chapter 2

FUNFitness Event Guide

- Organization (Volunteers and Funding)
- Preparing for Your Event
- Promoting Your Event
- Research
- Event Checklist and Media Fact Sheet
PLANNING YOUR OWN FUNFITNESS EVENT

FUNfitness is the result of an established professional relationship between American Physical Therapy Association (APTA) and Special Olympics. The original event was developed by APTA and its North Carolina chapter as a flexibility screening for athletes participating in the 1999 Special Olympics World Summer Games. In November 1999, APTA agreed to develop the current FUNfitness, a physical therapy screening program for Healthy Athletes to address ongoing fitness needs of Special Olympics athletes.

Organization

The agreement between APTA and Special Olympics defines several organizational steps in planning to initiate FUNfitness:

1. A Special Olympics Program can develop an interest in hosting FUNfitness, and contact either the regional Healthy Athletes Coordinator or the Global Clinical Advisor.

   1a. The Special Olympics Program can nominate an appropriate physical therapy professional for training as the Clinical Director.

   1b. The Program can request assistance in identifying a professional for training.

2. The state or country physical therapy association can develop an interest in hosting FUNfitness, and contact the Global Clinical Advisor or the regional Healthy Athletes Coordinator.

   2a. An identified physical therapy professional will submit a resume for review by both the Global Clinical Advisor and the Special Olympics Program.

   2b. If the identified physical therapy professional meets the qualifications for and agrees to become the state or country Clinical Director, he/she will be invited to the next train-the-trainer session to learn how to coordinate the event.

3. Once trained, the state or country Clinical Director should meet with the Special Olympics Program Director to mutually agree on the following topics:

   • Location and date of the event at which FUNfitness will be held
   • Amount and location of space for FUNfitness
   • Dates and times of the screening
   • Scheduling of volunteer orientation to Special Olympics
   • Issues of publicity and fundraising

4. The state or country Clinical Director can then appoint any physical therapist or physical therapist assistant to assist with the FUNfitness planning.

5. The state or country Clinical Director has the assistance and support of a regional FUNfitness Clinical Coordinator as well as the Global Clinical Advisor. State Clinical Directors in the United States also have a Coordinator of Clinical Services to assist them.
Referral
FUNfitness involves screening and one-on-one education about stretching, strengthening, balance and aerobic fitness training. Review your state or country practice act to determine the legality of providing screening and individual education. If you have any questions, contact your professional association or your board of examiners.

If your state or country professional practice act does not allow you to either screen or provide individual education without a referral, you will need to obtain a referral before the event from the appropriate referring practitioner, and have it on-site. If your state or country professional practice law does not allow you to screen or educate an individual without supervision, you will need to arrange for this supervision during the event.

Insurance and Risk Management
Special Olympics provides both professional and general liability coverage for health care and general volunteer services provided under its auspices. It is recommended that physical therapy professionals who participate in FUNfitness have their own primary professional liability insurance to cover the services provided. This could be individual insurance or employer insurance that covers off-site events. Individuals will need to check with their employers and/or supervisors well in advance to verify if employer insurance will cover them for this activity. If you do have professional liability insurance, the Special Olympics coverage is a secondary insurance. If you do not have primary liability insurance, the Special Olympics coverage is your primary insurance.

Each Healthy Athletes volunteer should also sign the Hold Harmless Agreement with Special Olympics in order for all parties to be protected from litigation. Volunteers should insert their name, license number and the status of their liability coverage, and sign in the appropriate place. An employed representative of the state or country Special Olympics Program should sign on behalf of Special Olympics.

Specific questions about coverage can be addressed directly to Alisa Macht, Special Olympics Legal Counsel, at +1 (202) 824-0287, or at alisa@specialolympics.org.
ORGANIZATION

Getting Help
Delegating responsibilities well ahead of time will help to make the planning process go smoothly. The following are roles and responsibilities that the FUNfitness state or country clinical director might delegate:

**Event coordinator (the major role of the clinical director)**
The event coordinator is responsible for working with local programs and sites to coordinate the event. He/she should work closely with the Special Olympics Program to decide on site size and location, hours of screening, equipment needed, and provision of amenities (food, water, gifts) for volunteers. This person should also develop methods to encourage athletes to attend the event. He/she should work with local medical and professional groups to strengthen ties between the sponsors and the local community.

**Volunteer coordinator**
The volunteer coordinator is responsible for recruiting and scheduling volunteers. This person should work with the Special Olympics Program to decide when and how the Special Olympics volunteer orientation will be completed. The volunteer coordinator should also provide orientation and training to volunteers in the FUNfitness screening, as well as maps and parking information. On-site assignments and definition of responsibilities are included in the position’s duties.

**Media spokesperson**
The media spokesperson is the primary contact for media information. He/she will organize interviews about the event (before, during and after the event). The spokesperson should work with the local Special Olympics Program director or media person to coordinate and plan publicity. Some of the FUNfitness publicity might be rolled into usual Special Olympics Games media information. Ideally, the media spokesperson should have prior experience with the media, think well on his/her feet and have good writing skills.

**Fundraiser**
The fundraiser solicits contacts and funds for the event. He/she should have a fact sheet with information about Special Olympics, Healthy Athletes, FUNfitness and physical therapy to share with potential supporters. Information is available from the APTA Web site, www.apta.org/Consumer, or the Special Olympics Web site, www.specialolympics.org.

The fundraiser should check with the Special Olympics Program regarding funding sources, and coordinate fundraising with the Program. The fundraiser should focus on local fundraising, and coordinate with the global clinical advisor about any higher levels of funding to ensure that there is no conflict of activities.

**Funding**
The clinical director may need to budget or raise funds to produce the event. Depending on the state and the specific event (World, regional, state or local Games), funds may be needed for equipment rental (tent, mats, tables and chairs). Funding may also be required for publicity, participant give-away items and volunteer thank-you tokens.
The chapter may consider creating a budget line for state Games if it wishes to host FUNfitness yearly. Money may also be solicited from local businesses or fraternal organizations, especially if their names are associated with the event. Local or regional universities or schools might donate for publicity, a school challenge or a service-learning project. The sponsor may then create a budget line for future donations.

All sponsors should be publicly recognized at the event for their support. A thank-you note or letter should also be sent to all sponsors. This recognition will reaffirm your appreciation for their participation in the FUNfitness event.

**Possible costs to keep in mind**
As you plan the event, you might want to consider possible costs of the following:

- Equipment rental
- General education materials
- Food and drinks for volunteers
- Postage for mailings
- Photography
- Reimbursement for parking
- Thank-you notes
- Gift for volunteers
- Signs
- FUNfitness materials (athlete score cards, pins)

**Grants to support FUNfitness activities**
Several types of grants are available to Special Olympics Programs to support the initiation and development of Healthy Athletes activities. For information about these grants, contact your Healthy Athletes coordinator or Shantae Polk, Special Olympics Manager, FUNfitness, at +1 (202) 824-0239 or spolk@specialolympics.org

Healthy Athletes capacity grants are available to the Special Olympics Program for each event and are designed to support the initiation and growth of Healthy Athletes activities. Requests for these grants, ranging from $3,000 to $5,000, should be submitted at least 60 days before an event. The grants can be used for equipment, supplies, athlete and volunteer support, and promotion. State FUNfitness coordinators must work with the Special Olympics Program to identify needs for these grants. Contact the Healthy Athletes coordinator for your Special Olympics Program to request support for FUNfitness activities in your state.

Healthy Athletes development grants are available to the Special Olympics Program for developing the program and planning for growth and sustainability. These three-year grants, which range from $10,000 to $15,000 yearly, require a more thorough program proposal.

The Healthy Athletes impact grant is designed to evaluate the community and individual impact of the Healthy Athletes activities. These one-year grants are available to Special Olympics Programs to assess athlete compliance and health behavior change, as well as community program response to athlete need. For more information contact Dr. Mark Wagner, Vice President, Health Programs, mwagner@specialolympics.org, (202) 715-1148.
Volunteer Recruitment

These are just a few ways to solicit volunteers. Remember that this process does take time, so you should start to find volunteers at least four to five months before your event. Once you or your state or country have hosted a FUNfitness event, you will have a trained pool of volunteers. Consider creating a spreadsheet with information about your volunteers for future use (see forms, pg. 75).

Anyone who wishes to volunteer should be sent a FUNfitness volunteer form (see forms, pgs. 67 and 69), a generic Special Olympics volunteer form, and the Special Olympics hold harmless agreement (see pg. 73). Completion of these forms will verify licensure in the state where the event is being held, coverage by malpractice insurance and days/hours of availability. Completion of these forms also allows the volunteer to be registered by Special Olympics as an official volunteer so he/she is covered by Special Olympics professional and general liability insurance for all activities performed in association with the event.

Each volunteer must participate in a Special Olympics orientation before taking part in an event. Your Special Olympics Program usually will give these orientations on-site, but may also arrange to give them ahead of time at local Special Olympics headquarters or at local sites.

Volunteers should also have a FUNfitness orientation before participating. It is a good idea to develop some type of orientation explaining the event, using the physical therapist guidelines and the education chapters of the manual. The materials have been developed and written so that orientations can be done in a variety of ways (meeting, videotape, conference call or mailing). An actual group orientation may not be necessary, and may be difficult to organize. However, students often appreciate the opportunity to learn the event and practice ahead of time.

Send a letter to all volunteers to confirm the date(s) and time(s) that they are working at the event and any attire recommended or requested for the event. Schedule volunteers for a specific period of time (morning or afternoon) with at least a 30-minute shift overlap in case the next volunteer is delayed. Tell volunteers to allow an additional 30 to 45 minutes before their shift to find parking and to check in at the Special Olympics volunteer table. The letter should include a site map with the location of the FUNfitness event and parking. Instruct volunteers to bring a pen, a goniometer and a tape measure. Instruct volunteers to bring few personal items, and to store them in a pocket or fanny pack. Each volunteer will receive a Special Olympics T-shirt to wear on the day of the event. This shirt will permit entrance at the event, and may be the ticket for lunch if it is provided by the Special Olympics Program.

Volunteers can be kept informed before the event with updates by e-mail blast or fax. A short note regarding publicity, sponsors or monetary support will maintain enthusiasm and create a sense of involvement.

Plan to give or send your volunteers some form of thank-you. A letter, note, certificate or T-shirt will reaffirm your appreciation for their participation in the FUNfitness event.

The minimum number of people to staff a full-day FUNfitness event is 30. These volunteers include a physical therapist and physical therapist assistant or student at flexibility, strength, balance, aerobic and education stations; and other volunteers at
registration and exit stations, and as rovers, the event manager and escorts. The volunteer numbers may need to be adjusted according to total numbers of participants expected at the Games and the projected hours of the Healthy Athletes events. Each clinical director should check with the Special Olympics state program coordinator to determine the potential number of participants registered to compete and the hours of the Healthy Athletes events. An estimated 40 to 50 percent of participants attend Healthy Athletes events. The clinical director should estimate the numbers of volunteers needed based on this expected participation and on the hours of coverage required.

**Staffing During the Event**

FUNfitness is made up of four screening stations:

1. Flexibility
2. Functional strength
3. Balance
4. Aerobic fitness

<table>
<thead>
<tr>
<th>Screening</th>
<th>Area Tested</th>
<th>Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexibility</td>
<td>Anterior Hip Muscles</td>
<td>Modified Thomas Test</td>
</tr>
<tr>
<td></td>
<td>Hamstring Muscles</td>
<td>Passive Knee Extension</td>
</tr>
<tr>
<td></td>
<td>Calf Muscles</td>
<td>Passive Ankle Dorsiflexion</td>
</tr>
<tr>
<td></td>
<td>Shoulder Rotator Muscles</td>
<td>Apley’s Test</td>
</tr>
<tr>
<td></td>
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</tr>
<tr>
<td>Functional</td>
<td>Hip and Knee Extensor Muscles</td>
<td>Timed Sit to Stand Test</td>
</tr>
<tr>
<td>Strength</td>
<td>Abdominal Muscles</td>
<td>Timed Partial Sit-up Test</td>
</tr>
<tr>
<td></td>
<td>Grip</td>
<td>Grip Test</td>
</tr>
<tr>
<td></td>
<td>Shoulder and Scapular Muscles</td>
<td>Seated Push-up Test</td>
</tr>
<tr>
<td>Balance</td>
<td>Dynamic Balance</td>
<td>Functional Reach</td>
</tr>
<tr>
<td></td>
<td>Static Balance</td>
<td>Single Leg Stance</td>
</tr>
<tr>
<td>Aerobic</td>
<td>Step Test</td>
<td>2 minute Step Test</td>
</tr>
<tr>
<td>Condition</td>
<td>Alternative Walk Test</td>
<td>3 minute Walk Test</td>
</tr>
<tr>
<td></td>
<td>Wheel Test</td>
<td>5 minute Wheel Test</td>
</tr>
</tbody>
</table>

In addition to the screening stations, the FUNfitness event includes the following stations:

1. Registration Station
2. Education Station
3. Exit Station
Additional volunteers

- Rovers—at least two physical therapists to direct and supervise the stations and the flow of athletes in the event
- Escorts—four to eight persons (physical therapist, physical therapist assistant, student, others) to accompany athletes to each test station

**PREPARING FOR YOUR EVENT**

**Event space and set-up**
The space needed for the event is at least 40 feet by 50 feet (additional contiguous space that measures at least 50 feet by 15 feet is needed to conduct the aerobic testing). The requested furniture and equipment needs to be delivered to your event site on the day of the event. Arrange a set-up time with your local event director on the basis of when your event is scheduled. Allow two hours and at least four people to set up. Set up your banner, equipment, supplies and internal signs.

**EVENT FLOW**

**Registration**
The registration station is the first stop. Volunteers should clearly and briefly explain the screening, and show athletes what will happen in the FUNfitness event. The athlete is asked to provide information for the top portion of the FUNfitness score sheet. If the athlete is less than 18 years old, he or she should be accompanied by a parent/guardian or coach. The parent or coach, or volunteers at the registration station may assist the athlete in completing the form, if necessary. (See sample dialogue at the end of this chapter.)

Athletes and families sign a blanket consent form when they register to participate in the Games. This form covers not only participation in Games, but in Healthy Athletes events. Check with your Healthy Athletes coordinator to make sure that the consent

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### Stations and Number of Volunteers

<table>
<thead>
<tr>
<th>Stations</th>
<th>Number of Volunteers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration</td>
<td>2-4 registrars (PT, PTA and Student) to help fill in the top of the Score Sheet, and to explain the event.</td>
</tr>
</tbody>
</table>
| Screenings (4)    | 10-12 physical therapists  
10-12 assistants or students  
Each station is staffed by a “team” of a physical therapist, and an assistant or student. |
| Education         | 2-4 Assistants or students  
1-2 Physical therapists to supervise the assistants or students |
| Exit              | 2-4 staff (PT, PTA and student) to collect Score Sheets and hand out pins and gifts.                                                                 |
form used by your program covers Healthy Athletes activities. Ask your Special Olympics Program to give you a list of all athletes who have signed these consent forms for use on site. If the athlete and family have not signed the consent form, ask them to sign the specific Healthy Athletes Consent form at the FUNfitness registration station (see pg. 4).

Volunteers will give athletes a score sheet and an athlete score card with their name on it. Athletes should carry both these forms from station to station.

**Screening stations**

 Escorts will then direct the athletes to one of the screening stations (flexibility, functional strength, balance or aerobic fitness). At each of the stations, several screening tests may be administered (see staffing during the event section above). An athlete can start at any test site, but the rovers must control the direction of athlete flow through the event. Once an athlete has begun, he/she will continue through all tests before going to the exit station.

The screening stations can be set up in several ways:

1. One physical therapist or a student under the supervision of a physical therapist (with a physical therapist assistant) can be assigned as a team to each test site to allow for greater intra-rater reliability in measurement. A test site can do several measurements (like hamstring and calf muscle length), or be one entire station (like flexibility). A total of four stations with nine screening tests must be recorded before the athlete proceeds to the exit station.

2. One physical therapist and a physical therapist assistant or student can be assigned as a team to a testing site. This physical therapist, or the student under the supervision of the physical therapist team will perform all* tests on an individual athlete with the assistance of the physical therapist assistant. A total of nine screening tests must be recorded before the athlete proceeds to the exit station.

*All* can be anyone of the following possibilities:

a. All tests and education at each screening station
b. All tests except education, which is set up as another station
c. All tests at each station except aerobic fitness, which is set up as a separate station

Regardless of how the venue is set up, the physical therapist will perform the specific test as outlined in the screening manual. The physical therapist assistant or student may assist with measuring and with recording the measurement. The assistant or student should also check the education box as directed by the therapist, and correspondingly check the box on the athlete score card. Guidelines for when to provide education are included on the score sheet by each test to ensure more consistency among physical therapists.

**Education station:** Once all screening stations are completed, athletes will be escorted to the education station. A physical therapist will supervise and direct the activities in the education station. The therapist, assistant and students will instruct the athletes in exercises as noted on their score sheet (an “X” in the education box) and score card. Each exercise will be demonstrated by the therapist, assistant or student, and then performed by the athlete and any others in attendance who live or work with him/her. Other Special Olympics athletes might also be on hand to demonstrate the exercises to their
peers. The physical therapist performing a test can educate the athlete at the same time, and eliminate the need for an Education station.

**Exit station:** Once the athlete has completed all stations, he/she will be escorted to the exit station. Volunteers will collect the FUNfitness score sheet and give each athlete a FUNfitness pin and/or gift. Exit staffers will make sure that each athlete has his/her athlete score card with the appropriate exercises checked.

The exit station staffers save the FUNfitness score sheets for data entry. Volunteers should check to make certain that the athlete's name, date of birth, event date and location and sport are on the score sheet. Score sheets will be checked by the clinical director before data entry.

**During the day**
The key to successful screening is flexibility. The structure and assignment of volunteer staff may need to be adjusted to accommodate athlete numbers. Volunteers can rotate sites for some variety, especially if they are working more than one shift. If the event gets very busy, one physical therapist may do two or more tests to speed up the flow. All equipment and measuring devices should be wiped frequently with a cleansing agent. Hand sanitizer should be available for use by volunteers, as water for hand washing is usually not available.

**End of the day**
At the end of the day, clean the event site and leave it as it was found. Place all trash in appropriate containers as noted by the Special Olympics Program director. Remove any items that you brought with you, including personal belongings.

**End of the event**
At the end of the event, remove any equipment and supplies that you furnished. Return equipment furnished by local businesses, or make arrangements for pickup. Equipment furnished by the local Special Olympics should be left as it was found. It will take approximately four persons one to two hours to close the event.
TOTAL SPACE RECOMMENDED = 40x40 feet (12x12 meters)
Promoting Your Event

Before the event
Send news releases to local newspapers and radio stations two to three weeks before the event. Call local media outlets to get the names of the persons to whom the releases should be sent. This list of names will become your media list, to which you will refer as you get closer to the event. A sample press release is located at the end of this section.

Also at this time, select a spokesperson (or several) who will be available to speak to media if they wish to do interviews before, during or after the event. It is helpful if the spokesperson has had prior experience with the media. It is advisable to talk with your Special Olympics Program director regarding what should be released to the media.

News releases
The news release is the basic and most accepted method of conveying information to many media sources. The classic organization of a news release is the inverted pyramid, with the facts of the story (who, what, when, where, why and how) appearing in descending order of importance. When writing a news release, use short and concise sentences and paragraphs. Use words that are familiar to the public; avoid physical therapy jargon. A news release is usually one page long. Print it on your letterhead using a format similar to the one on page 17. It should be double spaced and should include the name, address, telephone number and e-mail address of the person the reporter can contact for more information.

A sample press release has been prepared by APTA, and published on the APTA Web site, www.apta.org. You can use this release as a basis to produce a local press release, or create your own.

Another alternative for the media is a fact sheet (see sample at the end of this chapter). This is a one-page reference sheet that contains the basic facts of the event in outline form. It gives a reporter essential “at-a-glance” information about the event.

Work with the local media to coordinate and plan publicity. Use local TV and radio as well as newspapers for public awareness. Local businesses may wish to sponsor advertising, and you can also use public service announcements (PSAs), which are free. If you need specific assistance with writing a news release, contact the public relations department of your professional association for advice and direction.

Photography
Athletes, or their parents or guardians, sign a form when they register to compete that provides blanket permission for the use of photographs of athletes taken on site and in conjunction with the Games and their associated events. This release permits the use of photographs for related articles only, not for marketing or soliciting funds.

You may take the photos yourself, or hire a professional photographer. If you plan to submit your photographs to local media, send the standard 5” X 7” size or a digital photo.
Here are some tips for successful photographs:

- Use a 35-mm camera with a flash attachment, or a digital camera.
- Take "tight" shots of a physical therapist and participant. Tight shots are least cluttered and most interesting.
- Angle your shot to add depth.
- Identify the photograph on a separate sheet that you tape to the back of the photograph. Do not write on the back of the photo or use labels or paper clips.

Research
The score sheet is used to collect data on both the exercise behaviors of the athletes and the physical components of fitness (flexibility, strength, balance and aerobic fitness). The FUNfitness event, the score sheet, and the data collection process have been designed to enhance standardization of measurement and recording. The long-term objective is to develop a database about athletes with intellectual disabilities who participate in Special Olympics.

Special Olympics has developed a collaboration with Better Health Global Ltd. (BHG) to develop a Web-based system for Healthy Athletes. This system, called Healthy Athletes Software System (HAS), was introduced at the World Summer Games in Dublin, Ireland, in 2003. It will ultimately be available to every state and country for data entry and report generation.

Data are currently being collected on the paper score sheets that you can print from the Special Olympics Web site (www.specialolympics.org/healthyathlete). These data are manually entered into HAS. It may eventually be possible to enter data into personal digital assistants and upload them directly into HAS.

The next step is to encourage states and countries to begin entering their own data. A start-up primer is being distributed to all clinical directors to walk them through data entry. Special Olympics and BHG are creating a practice to Web site to learn data entry. Each clinical director will be responsible to oversee entering the discipline data, including training the data entry person(s). The clinical director has several alternatives for data entry that should be explored with his/her Special Olympics Program director:

- Special Olympics staff might be trained to perform data entry.
- Special Olympics volunteers might be trained for data entry.
- Professional students might perform data entry.

The clinical director and the Special Olympics Program director should decide what method of data entry is feasible, then plan who will enter the data and how they will be trained. The ideal method is to contact the data management coordinator at Special Olympics before the Games to create a data site and populate this site with the participating athletes. Data can then be entered at the Games site if electricity, an Internet connection and computers are available. If that is not possible, data should be entered within 30 days following the Games.

Special Olympics maintains overall ownership of the data, and has permission to use these data in the aggregate for scientific purposes. Each Special Olympics Program retains ownership of the athlete data collected at events in its state or country, and should
be queried regarding use of any Healthy Athletes discipline data. If a volunteer wishes to use data gathered at several events, including events outside the state or country, the volunteer should contact Special Olympics for permission. The volunteer will need to submit a proposal to use the data. The proposal should include resumes of the principal investigators, a brief description of the project, the data requested, the intent of the project and the general data analysis methods. An institutional review board (IRB) approval, including an appropriate consent form, must also be submitted. If the services of an IRB are not available, Special Olympics can convene its own review board to evaluate the project. Special Olympics must review the project results and any materials prepared for presentation or publication before their submission.

Student grants are available each year for students training to become physical therapists or physical therapist assistants. These grants, usually for approximately $2,000 to $4,000, are for exploration and research into the components of the FUNfitness event, the data or interventions with people who have intellectual disabilities. These grants are available through the office of Dr. Mark Wagner, Vice President, Health Programs, Special Olympics (mwagner@specialolympics.org).
Sample dialogue at the registration station to explain FUNfitness screening

• Welcome to FUNfitness.
• We are physical therapists.
• We are doing some tests to see
  • How flexible you are,
  • How strong you are,
  • How good your balance is, and
  • How physically fit you are.
• After we do each test, we will write down some numbers on this form.
• If we think you need to do exercises to improve your flexibility, strength, balance or physical fitness, we can show you some exercises that can help you do better in your competitions, or that will help you move better.
• We also can recommend that you work with a physical therapist after today.
• You do not have to do these tests if you don’t want to.
• Would you like to do a FUNfitness screening with us?
  If so, please sign your name here.

Sample dialogue at the exit station to verify permission to use the FUNfitness data

• Thank you for doing the FUNfitness screening.
• We are collecting the data forms on the athletes who do these tests.
• We enter the information on this form into a computer.
• We can then see how all the athletes do on these tests.
• This use of information is called research. It helps us plan better health services and tell others about the services that are needed.
• Whenever we use this information, we will keep your name private, so no one will know your information specifically.
• You do not have to let us use this information if you don’t want to.
• Would you let us keep this information about you in our computer?
• If so, please sign this form.
FUNfitness CLINICAL DIRECTOR EVENT CHECKLIST

Initial Planning (9-12 Months Prior to the Event)

- Arrange initial meeting between clinical director and a Special Olympics Program representative to discuss:
  - Games at which to host first event
  - Number of athletes attending Games or participating in Healthy Athletes
  - Facilities/space needed
  - Equipment required
  - Individual and joint publicity and fundraising options
  - Special Olympics volunteer orientation sessions and materials
  - Risk management issues
  - Food and water supplies
- Contact appropriate state or community and local health and medical associations to discuss any partnership opportunities and any state/county restrictions regarding your event.
- Develop a potential fundraising plan to support your event, if needed.

Event Preparation (4-8 Months prior to the Event):

- Review equipment list and any additional needs, and arrange for purchase or rental of equipment.
- Determine items to be in the FUNfitness gift kit, and initiate ordering.
- Develop community sources of funding for necessary items, if necessary, in conjunction with your Special Olympics Program.
- Order FUNfitness pins, thera-bands, and athlete score cards from Special Olympics.
- Recruit local physical therapists, physical therapist assistants and students as volunteers.
- Send out volunteer sign-up sheets, Special Olympics volunteer sheets, and hold harmless agreements.
- Create a volunteer spreadsheet and a volunteer contact e-mail group.
- Develop a volunteer schedule.
- Notify each volunteer of his/her proposed schedule, and general Special Olympics Games information.

Two to four months prior to the event

- Set up volunteer orientations for both Special Olympics and FUNfitness.
- Determine volunteer attire for event.
- Choose and arrange recognition of volunteers and sponsors (letters, thank-you notes, gifts).
- Provide information to media personnel for the press release.
- Arrange for photographic coverage of your event.
- Keep in contact with your volunteers — send updated information, parking sites and maps.

One month prior to the event

- Arrange for delivery and return of equipment.
- Arrange for set-up and breakdown of event space.
- Send last-minute information to volunteers.
- Contact your media regarding on-site coverage of your event.
Day of the event
- Arrive early to set up equipment and signs.
- Arrange give-away items in a safe area near the exit station.
- Review responsibilities with volunteers, and review tests and data form.
- Conduct a “dry run” if time permits.
- Review plans with your media person and photographer.
- Clarify schedule and clean-up plans.
- Supervise and participate in the event.

Event Closure
- Arrange for return of equipment and breakdown of site.
- Collect data forms.
- Clean up screening area.
- Pack up all extra supplies and gifts.

After the Event
- Send thank-you notes and certificates to all volunteers and sponsors.
- Request input regarding event from all volunteers and Special Olympics personnel.
- E-mail photos to volunteers and Special Olympics.
- Publicize your event in local and professional newsletters.
- Send a news release and photo to your national professional group.
- Arrange for entry of data forms.
- Complete and submit the Special Olympics FUNfitness Event Summary form.
MEDIA FACT SHEET

- FUNfitness is the result of a professional relationship between American Physical Therapy Association (APTA) and Special Olympics.

- APTA developed, piloted and revised FUNfitness in 1999 and 2000.

- FUNfitness was premiered at the Special Olympics Winter World Games in Anchorage, Alaska in March 2001.

- FUNfitness is a fitness screening performed by physical therapy professionals for Special Olympic Healthy Athletes.

- The purposes of FUNfitness are to assess all components of fitness; to educate athletes, families and coaches about the importance of fitness; and to provide a hands-on opportunity to learn about the role of the physiotherapist in fitness.

- Physical therapists assess
  - flexibility of the hamstring, calf, shoulder rotator, and hip flexor muscles;
  - functional strength of the abdominal, and upper and lower extremity muscles;
  - static and dynamic balance; and
  - aerobic fitness (walk, wheel or step testing).

- Physical therapy professionals also instruct athletes on ways to become more fit, and to train year-round for better performance.

- Training sessions are held each year to train physiotherapists from around the world in the development of the even in their countries.
NAGANO, JAPAN, FEBRUARY 27, 2005  Physical therapist members of American Physical Therapy Association from Massachusetts, Montana, and North Carolina joined with physical therapy professionals from other countries to host FUNfitness, a fitness screening assessment program for athletes at the Special Olympic World Winter Games.

“APTA is delighted that the screening event they developed in their partnership with Special Olympics is offered at the Special Olympics Games. “As experts in neuromuscular and musculoskeletal dysfunction, physical therapists are able to give excellent feedback to athletes about their flexibility, functional strength, and balance,” stated Donna Bainbridge, PT, EdD, ATC, Special Olympics Global Advisor for FUNfitness.

FUNfitness is part of the Special Olympics Healthy Athlete Program, which was developed to educate participants and give them access to health care they need and often don’t receive. The current FUNfitness event is an outgrowth of pioneering efforts of the North Carolina chapter at the World Summer Games in 1999. At World, Regional, Country and State games, physical therapists assess flexibility of the hamstring, calf, anterior hip, and shoulder muscles, functional strength of the abdominal and leg muscles, and balance of Special Olympics athletes. They also instruct athletes, family members, and coaches on how to improve these areas of fitness through specific exercises. Each athlete receives a personalized FUNfitness scorecard that illustrates how certain muscles are used in sports and the appropriate exercises to stretch and strengthen each muscle group.

More…..
The states and countries who participated in the FUNfitness program were:

- Australia,
- Brunei,
- China and Chinese Taipei
- Indonesia,
- Japan,
- Macau,
- Malaysia,
- Namibia,
- Singapore,
- South Africa,
- Thailand

The American Physical Therapy Association is a national professional organization representing nearly 70,000 members whose goal is to foster advancements in physical therapy practice, research, and education.

# # #
Chapter 3

Physical Therapist Guidelines
Refer to the reference list at the end of the manual for the evidence that supports utilization of these tests and measures.
HAMSTRING FLEXIBILITY
Supine (Passive) Knee Extension

Athlete testing position
- Athlete is positioned supine on a table or mat.
- Hip and knee of the side to be measured should be flexed to 90 degrees.
- Athlete, physical therapist assistant (PTA) or student maintains hip position at 90 degrees flexion.

Physical therapist (PT) position
- PT stands beside the leg to be measured with eyes level with the leg.
- PTA or student stands on same side to assist with passive knee extension.

Goniometer alignment
- Align the proximal arm of the goniometer with the lateral midline of the femur, using the greater trochanter as a reference.
- Align the distal arm of the goniometer with the lateral midline of the fibula, using the lateral malleolus as a reference.
- Center the fulcrum of the goniometer over the lateral femoral epicondyle.

Measurement
- Athlete (or PTA/student) is instructed to hold the thigh in 90 degrees of flexion, and relax the lower leg.
- Athlete should not slide buttocks downward as the lower leg is moved.
- Ankle should remain in neutral or plantarflexion.
- PT passively straightens the knee as far as possible without pain.

Recording
- Measure the angle between the thigh and leg. The measurement should be < 90 degrees.
- If the knee goes fully straight, record the final value as 0 degrees.
- If the knee does not go straight, record the value as negative (e.g., -40).
- If the knee goes beyond the fully straight position into hyperextension, record the value as positive (e.g., +5 degrees).
- Repeat the measurement on both sides.

Flexibility of less than -15 degrees (i.e., numbers higher than -15 degrees, such as -20 degrees) or asymmetry may indicate need for education.

Example: PT moves the knee to maximum extension, but participant is 40 degrees from the 0 position. This is recorded as -40 degrees extension.
CALF MUSCLE FLEXIBILITY
Supine (Passive) Ankle Dorsiflexion

Athlete Testing Position
• Position the athlete supine on a table or mat.
• Position the hip and knee on the side to be measured in as much extension as possible.

Physical therapist position
• PT is seated or squats on the side to be measured with eyes level with the leg.
• PTA or student is positioned by the foot to assist with recording.

Goniometer alignment
• Align the proximal arm of the goniometer with the lateral midline of the fibula, using the fibular head as a reference.
• Align the distal arm of the goniometer parallel to the lateral midline of the fifth metatarsal.
• Center the fulcrum of the goniometer over the lateral aspect of the lateral malleolus.

Measurement
• Athlete is instructed to relax the foot and ankle.
• Athlete should not slide buttocks downward as the ankle is moved.
• Knee should remain in extension during the measurement.
• PT should passively dorsiflex the ankle (grasp and pull down on the heel while pushing up on the foot with the forearm).
• Repeat the measurement on both sides.

Recording
• Measure the angle between the leg and the foot. Neutral position (0 degrees) is a right angle between leg and foot. The angle should be > 90 degrees.
• Record the actual angle in relation to the neutral position.
• If the athlete cannot reach neutral position (90 degrees), record the angle as negative (e.g., -10 degrees).
• If the athlete goes beyond neutral, record as positive (e.g., +10 degrees).
• If athlete only reaches neutral, record as 0 degrees.
• Repeat the measurement on both sides.

Flexibility of less than +10 degrees, including any negative numbers (e.g., -10 degrees), or asymmetry might indicate need for education.

Example: Athlete relaxes, and PT is able to move the ankle to 10 degrees beyond neutral. The recording is noted as +10 degrees dorsiflexion.
ANTERIOR HIP FLEXIBILITY
Modified Thomas Test

Athlete testing position
• Athlete is positioned supine on a table or mat.
• Both hips should be flexed to 90 degrees.
• Athlete, PTA or student maintains the opposite hip in 90 degrees flexion.
• PT supports hip to be measured.

Physical therapist position
• PT stands on the side to be measured.
• PT supports the leg with one arm, and places the other hand on the anterior crest of the pelvis.
• PTA or student sits on the side to be measured at eye level with the hip.

Goniometer alignment
• Align the proximal arm of the goniometer with the lateral midline of the pelvis.
• Align the distal arm of the goniometer with the lateral midline of the femur as a reference.
• Center the fulcrum of the goniometer over the lateral aspect of the hip joint, using the greater trochanter as a reference.

Measurement
• PT flexes the hip to be measured to 100 degrees.
• Athlete is instructed to “relax and let me lower your leg.”
• PT lowers the leg passively until the pelvis begins to move forward under the hand.
• Opposite hip should not be allowed to move into extension during the test.
• PT must keep a hand beneath the lower back to ensure that it remains flattened.

Recording
• The point at which the pelvis moves forward is the end of the test.
• At this point, the angle between the pelvis and thigh is measured.
• If the thigh lowers to the table surface, the result is recorded as 0 degrees.
• If the thigh does not reach the table, the angle is recorded as negative (e.g., -25 degrees).

Flexibility of less than -10 degrees (i.e., numbers higher than -10 degrees, such as -20), or asymmetry might indicate need for education.

Example: PT moves the leg from the 90-degree position to 50 degrees. Record -40 degrees, as participant lacks 40 degrees of full extension (0 degrees).
FUNCTIONAL SHOULDER ROTATION

Apley’s Test

Participant testing position
• Athlete stands or sits across a chair, facing the back. (Athlete may also sit in a wheelchair.)
• Athlete is instructed to reach one arm behind the head and down the back, while the other arm reaches behind the hip and up the back.

Physical therapist position
• PT demonstrates the test.
• PT then stands behind the athlete.
• PTA or student stands in front of the athlete for safety.

Measurement
• PT demonstrates the test position.
• Athlete is instructed to “try to touch your index fingers together.”
• The measurement is the distance in inches (centimeters) between the index fingers (one arm is in flexion/abduction/lateral rotation; the other is in extension/adduction/medial rotation).

Recording
• Use a tape measure to measure the distance between the index fingers.
• Determine the side being recorded by the arm on top (i.e., left arm on top = left; right arm on top = right).
• If the fingertips touch, record the distance as 0.
• If the fingertips cannot touch, record the separation as negative (e.g., -6 inches or 15.2 centimeters).
• If the fingers overlap, record the overlap as positive (e.g., +1 inch or 2.5 centimeters).
• Symmetry occurs if each arm reaches equally toward the middle (approximately T7).
• Asymmetry occurs if the arms approximate the midline unevenly (i.e., one arm is more flexible and overreaches the midline, or is less flexible and cannot approximate the midline).
• Mark the flexibility of each arm for both the left and right sides.
  • Within normal limits
  • More flexible
  • Less flexible
• Repeat on both sides and record on the score sheet.

Numbers higher than -6 inches / 15.2 centimeters (e.g., -8 inches) or asymmetry might indicate need for education.
TIMED-STANDS TEST
Sit to Stand with No Assistance

Description
The timed-stands test is a simple method to quantify functional lower extremity muscle strength (hip and knee extension). The test requires the athlete to complete 10 full stands from a seated position as quickly as possible without the use of the arms.

Mode of administration
• Have athlete sit in a firm straight-backed chair.
• Use pieces of hard foam or wood to adjust the height of the chair seat and/or to position the feet flat on the floor as necessary.
• Have the athlete position the arms by the sides with the elbows flexed to 90 degrees. Arms remain in this position for the entire test.
• Athlete is instructed to “stand from sitting, then sit down again, without using your arms. Repeat this 10 times as quickly as possible.”
• PT demonstrates the test.
• PT tells the athlete to start with a “ready, set, go.”
• PT, PTA or student stands beside the athlete in case the athlete loses his/her balance during the task.

Scoring
• PT or PTA starts a stopwatch or timer when he/she says “ready, set, go.”
• Timer continues until the athlete sits down from the 10th stand.
• Record the time to perform the task in minutes and seconds.
• If the athlete cannot perform 10 repetitions, note the number of repetitions in the time recorded.

Time greater than 20 seconds or inability to do 10 stands might indicate need for education.
PARTIAL SIT-UP TEST
Strength/Endurance of Abdominal Muscles

Description
The partial sit-up test is a simple method to quantify abdominal muscle strength/endurance. The test requires the athlete to complete as many sit-ups as possible from a supine position in one minute.

Mode of administration
- Participant is positioned supine on a table or mat.
- Athlete’s legs are flexed to 90 degrees hips/90 degrees knees and placed on a chair or stool.
- PT uses pieces of hard foam or wood to adjust the height of the stool if necessary.
- Athlete arms are positioned straight out in front of the chest with the elbows extended. Arms remain in this position for the entire test.
- Athlete is instructed to “lift your head and slowly sit up until your fingers touch your knees, then slowly lower back down again. Repeat this until I tell you to stop.”
- Goal is to have athlete do a partial sit-up, defined as sitting up until the base of the scapula clears the floor or table.
- PT demonstrates the test.
- PT coaches the athlete to begin when he/she says “ready, set, go.”
- PT sits near the athlete to encourage the athlete to continue the task slowly and correctly.

Scoring
- PT or PTA starts a stopwatch or timer when he/she says “ready, set, go.”
- Timer continues until one minute has elapsed.
- The number of sit-ups completed is recorded.
- The athlete can stop to rest momentarily, then begin again.
- If the athlete cannot continue for one full minute, the number of sit-ups completed is recorded.

The inability to do 25 sit-ups might indicate need for education.
**HAND-GRIP TEST**
**Strength of the Hand and Forearm**

**Description**
The hand-grip test is a standardized method of assessing strength of the hand and forearm muscles, and has been correlated to upper extremity function. The test involves completing three grips on each side and recording the best value.

**Mode of administration**
- PT uses an adjustable hand-grip dynamometer.
- PT indicates the dominant hand on the form (hand used for eating or writing).
- PT explains to the athlete that:
  - the athlete is not to move the rest of the body while squeezing; and
  - the athlete gets three tries to squeeze as hard as possible.
- PT has the athlete sit up straight in a straight-backed chair or wheelchair for the test.
- PT adjusts the dynamometer grip to a position of comfort — record grip size.
- PT demonstrates to athlete that he/she must keep the arm and hand at the side with the elbow bent to 90 degrees while squeezing.
- PT sets the dial to zero.
- PT coaches the athlete to begin when he/she says “ready, set, go.”
- PT instructs the athlete to do one strong squeeze (“as hard as possible”) for six seconds, then to let go.
- Each squeeze is followed by a one-minute rest.
- PT resets the dial to zero for the next trial.
- Athlete repeats for three squeezes on one side, then does the same on the other side.

**Scoring**
- Record the results from each trial in pounds.
- Accept the highest squeeze as the final result.
- Record the greatest grip in the space indicated on form.
- Compare the result for each side with the standardized norms for age and sex.

A result below the lower end of normal for age and sex may indicate the need for education.

**Note:** Separate files for adult and pediatric hand grip norms are included on CD.
SEATED PUSH-UP
Strength of the triceps and shoulder/scapular stabilizer muscles

Description
The seated push-up test is a method of assessing strength of the triceps and shoulder and scapular muscles. The test involves pushing the body up out of a seated position, and slowly lowering it back into the seat.

Mode of administration
• PT positions the athlete on the floor or on a sturdy table
• PT places the athletes’ knees out straight with heels resting on the floor or table.
• PT instructs the athlete to push his/her body up from the table or floor until the elbows are straight, hold for 20 seconds, then slowly lower back into the seat.
• Athlete can practice prior to the test.
• PT coaches the athlete to begin when he/she says “ready, set, go.”

Scoring
• PT counts how many seconds that athlete can hold in the push-up position.
• Record the number of seconds held on the score sheet.

The athlete who cannot hold for at least 5 seconds twice may need education.
**SINGLE-LEG STANCE WITH EYES OPEN**

*Single-Leg Balance*

**Description**
The single-leg stance test with eyes open is a simple method to quantify balance with the assistance of visual cues. The test requires the athlete to stand on one leg with the eyes open. Balance must be maintained as long as possible.

**Mode of administration**
- Athlete stands on both legs with feet shoulder width apart.
- Athlete is placed within arms’ reach of a chair for security.
- Arms are positioned at the sides with elbows slightly flexed. Arms remain in this position for the entire test.
- Athlete is instructed to “lift one leg and balance. I will time you until you lose your balance.”
- PT demonstrates the test.
- PT stands in front of athlete to encourage the athlete to continue without fear of falling. PTA or student stands behind athlete for safety.
- PT coaches athlete with a “ready, set, now stand on one leg.”
- Test continues until athlete loses balance, or puts the other foot down (maximum time = 30 seconds).

**Scoring**
- PT or PTA starts a stopwatch timer when he/she says “ready, set, now stand on one leg.”
- Timer continues until balance is lost, or foot of the flexed leg touches the ground.
- The time completed before loss of balance (up to 30 seconds) is recorded.

Stance time of fewer than 20 seconds or asymmetry might indicate need for education.
SINGLE-LEG STANCE WITH EYES CLOSED

Single-Leg Balance

Description
The single-leg stance test with eyes closed is a simple method to quantify balance without the assistance of visual cues. The test requires the participant to stand on one leg, then close (or cover) his/her eyes. Balance must be maintained as long as possible.

Mode of administration
• Athlete stands on both legs with feet shoulder width apart.
• Athlete is placed within arms’ reach of a chair for security.
• Arms are positioned at the sides with elbows slightly flexed.
• Arms remain in this position for the entire test.
• Athlete is requested to “lift one leg, then close your eyes and balance. I will time you until you lose your balance.”
• PT demonstrates the test.
• PT stands in front of the athlete to encourage the athlete to continue with without fear of falling. PTA or student stands behind athlete for safety.
• PT coaches the athlete with a “ready, set, stand on one leg, now close your eyes.”
• If athlete cannot keep eyes closed, PT may cover eyes with a headband or a blindfold.

Scoring
• PT or PTA starts a stopwatch timer when he/she says, “ready, set, stand on one leg, now close your eyes.”
• Timer continues until balance is lost, or foot of the flexed leg touches the ground.
• The time completed before loss of balance (up to 30 seconds) is recorded.

Stance time of fewer than 10 seconds or asymmetry might indicate need for education.
FUNCTIONAL REACH TEST
Forward Reach Without Loss of Balance

Description
The forward [functional?] reach test is a simple method to quantify balance that allows use of visual cues, but perturbs body position. The test requires the athlete to reach forward beyond the length of his/her arm without loss of balance. The preferred position for this test is standing, but it can also be done sitting.

Mode of administration
- PT attaches a tape measure to a wall or partition, horizontal to the floor at the shoulder level of the athlete.
- Participant stands on two legs, positioned shoulder width apart.
- Test can be done seated if the athlete cannot stand.
- Athlete is placed within arms’ reach of a chair for security.
- Arms are positioned at the sides. One arm remains relaxed in this position for the entire test.
- Athlete is requested to lift one arm to 90 degrees forward flexion and extend fingers.
- PT demonstrates the test.
- PT stands in front of athlete to encourage the athlete to continue without fear of falling.
- PTA or student stands next to athlete for safety.
- PT puts a clipboard at the end of the athlete’s longest fingertip to record the starting position.
- PT coaches athlete with a “ready, set, reach as far forward as you can without losing your balance.”
- PT uses the clipboard to record the final position of the fingers.

Scoring
- PT, PTA or student stands at the end of the athlete’s fingers.
- Record the starting position with the use of a clipboard on the ruler at the end of the longest finger.
- After the athlete bends forward, use the clipboard to record the inch measurement at the end of the longest fingertip as the athlete reaches without loss of balance. Record reach on both sides.

Reach of fewer than 8 inches/20.3 centimeters or asymmetry may indicate need for education.
AEROBIC FITNESS

Ability to walk, wheel or step for a period of time with undue fatigue

Description
Submaximal aerobic tests assess cardiovascular and pulmonary efficiency.

Pre-exercise resting heart rate
The resting heart rate is a basic indicator of aerobic fitness level. To get the pre-exercise resting heart rate, take the athlete's pulse after he/she has been quietly seated for two minutes, and record the number as beats per minute.

A pulse can be taken at either of two locations: the neck or the wrist. For test consistency and privacy for the athlete, use the wrist. When taking the pulse of another person, do not use your thumb, as you will feel your own pulse.

Place your first two fingers just below the base of the thumb on the inside of the wrist and just above the tendons running up the wrist. Move your fingers around until you feel a steady pulse.

Resting Pulse Classifications
- Below 70 bpm Excellent
- 70–90 bpm Average
- Above 90 bpm Below Average

Test preparation
To obtain good results, have the athlete do the following:
- Wear loose-fitting, comfortable clothes.
- Wear athletic shoes with rubber soles.
- Preferably not have caffeine or chocolate, or smoke one hour before testing.
- Not eat for one hour before testing.
- Drink a glass of water immediately before the test.

Mode of administration
For athletes who can walk functionally:

Two-minute step test
- PT records pre-exercise resting heart rate with the athlete seated before the test.
- Stand the athlete next to a wall.
- Mark the minimum stepping height for the athlete.
  - Run a tape measure from the iliac crest to the mid-patella.
  - Mark the midway point on the tape.
  - Transfer the mark on the tape to the wall.
  - Have volunteers hold a tape from the mark on the wall outward in front of the athlete.
- PT instructs athlete to bring each knee alternately up to the tape.
- PT coaches athlete to begin on “ready, set, go.”
- PT clicks tally counter each time the athlete’s right knee hits the stick.
- PT requests athlete to march for a maximum of two minutes.
Scoring
- PT records the number of times that the athlete touches the tape with the right knee.
- PT can make these adaptations as needed:
  - If athlete cannot bring either knee to the correct height from the start, continue the test, and note variation on the HAS form.
  - If athlete has poor balance, he/she can hold on during the test. Note this variation on the HAS form.

Three-minute Walk/Run Test
This is an alternative test to be used if Step Test cannot be performed
- PT marks off a known distance (at least 50 feet or 15.2 meters) for a test space, or uses a track of known length.
- PT records athlete’s pre-exercise resting heart rate in a seated position before the test.
- PT coaches athlete to begin on “ready, set, go.”
- PT requests athlete to walk as quickly as possible for a maximum of three minutes.
- PT informs athlete when one minute remains, for motivation.
- PT encourages athlete as he/she walks.

Scoring
- Record the distance covered in feet to the nearest foot (or meter).
- Record the time that the athlete was able to walk.
- Record the athlete’s heart rate at the end of the test, with the athlete seated.
- Record the athlete’s heart rate two minutes after the test, with the athlete seated.

For athletes who cannot walk functionally or who use a wheelchair:

Five-minute wheel test
- PT marks off a known distance (at least 50 feet or 15.2 meters) in an oval for a test space, or uses a track of known length.
- PT records athlete’s pre-exercise resting heart rate in a seated position before the test.
- PT coaches athlete to begin on “ready, set, go.”
- PT has athlete wheel for one minute to learn the test, then return to start line and rest for three to five minutes.
- PT requests athlete to wheel as quickly as possible for a maximum of five minutes.
- PT informs athlete when two minutes remain, for motivation.
- PT encourages athlete as he/she wheels.

Scoring
- Record the distance covered in feet to the nearest foot (or meter).
- Record the time that the athlete was able to walk.
- Record heart rate at the end of the test, with the athlete seated.
- Record heart rate two minutes after the test, with the athlete seated.
- Ask the athlete to indicate how hard he/she was working on the OMNI Relative Perceived Exertion Chart for Wheeling.
- PT records heart rate at the end of the test.
- PT records heart rate two minutes after the test, with the athlete seated.
Training heart rate
Monitoring heart rate is the easiest way to determine whether exercise is being performed effectively and safely. Because it is very difficult to exercise at one specific heart rate, a training heart rate zone for each athlete must be developed.

An estimation of maximum heart rate can be determined by subtracting the person’s age from 220. To find the high end of the training zone, multiply the maximum heart rate by a chosen percentage (e.g., 85 percent). To find the low end, multiply by another chosen percentage (e.g., 70 percent).

Estimation of maximum heart rate
220 - Age =

Target heart rate zone
Low range: \[ \text{MXR} \times .50 = \]

High range: \[ \text{MXR} \times .65 = \]

The high and low range of the target heart rate zone will vary depending on the age, physical condition and fitness level of each athlete.

Note:
If an athlete has the following characteristics:
- Does very little to no daily physical activity beyond self-care
- Has heart, vascular or lung problems
- Is overweight or obese
- Has any difficulty performing the aerobic test

You should start an athlete with these characteristics at a lower level of intensity. A very safe place to begin is at 50 percent intensity, with a range of 50–65 percent.

The standard “training zone” for people who are well and perform moderate amounts of consistent physical activity and exercise each day is between 70 and 85 percent of their maximum heart rate. In the normally active person, exercising below 70 percent has little effect on fitness level, while exercising above 85 percent will not help improve the body’s energy systems and can be potentially unsafe.

Monitoring heart rate during activity
As the athlete is exercising, take the heart rate for 10 seconds and multiply by six to get the minute exercise heart rate. Compare this result with the target range numbers that you calculated to see if the athlete is in the heart rate zone.
Chapter 4

Education
HAMSTRING MUSCLES

The hamstrings are three separate muscles that are located on the back of the thigh. They start on the pelvis bone and attach to the lower leg bones. See illustration below.

The hamstring muscles bend your knees and also pull your hips back.

The flexibility of the hamstring muscles is important for your daily activities and for your sports.

If the hamstring muscles are tight, these problems can occur:

- Bending forward may put stress on your lower back, and could cause pain or injury.
- Your leg is not able to move as far forward when you run, kick a ball or jump.
- You can injure the bone where the hamstring attaches, causing swelling and pain.
- You can hurt the muscle, causing a strain.
CALF MUSCLES

The calf is made up of two muscles that are located on the back of the lower leg. They start on the thigh bone, and the lower leg bones. They join to hook at the heel. See illustration below.

The calf muscles point your foot down, or help you go up on your toes.

The flexibility of the calf muscles is important for your daily activities and for your sports.

If your calf muscles are tight, you may have the following problems:

- Trouble getting your heel flat on the ground.
- Activities like walking, running or hopping will stress the muscle, and can cause heel pain.
ANTERIOR HIP MUSCLES

There are three anterior hip muscles that are located on the front of the hip and thigh. Two of the muscles start on the pelvis, and the third begins on the bones of the lower back. They attach to the thigh bone. See illustration below.

The anterior hip muscles bend your hip forward. The flexibility of the hip muscles is important for your daily activities and for your sports.

If the anterior hip muscles are tight, you may have these problems:

• The muscles can get hurt when you move your leg in big motions, as in gymnastics and softball. This motion can cause swelling and pain in the front of your hip.

• The muscles can pull on the lower back. This pull can cause pain in the lower back, or increase the curve of the lower back.
SHOULDER ROTATOR MUSCLE

The shoulder rotators are a group of three primary muscles that start on the shoulder blade, and attach to the upper arm. See illustration below.

The shoulder rotator muscles turn the arm in and out, and they also help hold the shoulder joint together.

The flexibility of the shoulder rotator muscles is important for your daily activities and for your sports.

If the rotator muscles are tight, you may have these problems:

- It is difficult to perform actions like throwing, reaching behind your head, or reaching into your back pocket.
- The tightness can cause pressure on your shoulder as you move. This pressure could cause pain.
The quadriceps are made up of four muscles. These muscles are located on the front of the thigh. They begin on the pelvis and thigh bones, go over the knee and attach to the leg bone. See illustration below.

The quadriceps muscles straighten your knees. The muscles also control slow bending of the knee.

The strength of the quadriceps is important for your daily activities and for your sports.

If the quadriceps muscles are weak, you may have these problems:

- You may have trouble walking, or running down steps.
- You may not be able to jump high, or land easily.
- You may have trouble squatting.
ABDOMINAL MUSCLES

The abdominal or stomach muscles are a group of muscles located on the front and sides of your trunk. The abdominal muscles begin on the ribs and breastbone. They end on the pelvis bones. See illustration below.

The abdominal muscles help you sit up. They also support your internal organs and lower back.

The strength of the abdominal muscles is important for your daily activities and for your sports.

If your abdominal muscles are weak, you may have these problems:

- You may have trouble doing sit-ups.
- Your back has less support, and may arch more than it should.
- Your stomach and organs have less support, and your stomach may stick out.
HAND GRIP MUSCLES

- The muscles that grip are a group of many muscles.
- They are located in your forearm and hand.
- The grip muscles begin on the elbow and forearm.
- They attach on the hand and finger bones.
- The grip muscles help you pick up and hold things.
- They also help you grab and release things.
- The strength of the grip muscles is important for your daily activities and for your sports.

If your grip muscles are weak:

- You may have trouble picking things up.
- You may have trouble holding things.
- You may have trouble lifting things.
ARM AND SCAPULAR MUSCLES

- The upper arm and scapular muscles are a group of many muscles.
- The scapular muscles are located on the back of your chest.
- The scapular muscles begin on the shoulder blade, ribs and spine, and end on the shoulder blade or the upper arm.
- The arm muscles are located on the shoulder and upper arm.
- The arm muscles begin on the shoulder blade and upper arm, and attach to the bones of the elbow and lower arm.
- The arm and scapular muscles help you push up.
- They help you move around and push yourself and other objects.
- Strength of the arm and scapular muscles is important for your daily activities and for your sports.

If your arm and scapular muscles are weak, these problems may occur:

- You may have trouble doing push-ups.
- You may have difficulty pushing and pulling.
- You may have difficulty with heavy tasks like lifting and throwing.
Balance is your ability to control the position of your body while standing or moving. Balance allows you to stand and move without falling.

**Balance depends on these things:**

- The use of your eyes
- The balancing system in your ears (vestibular system)
- The nerves in your joints, or joint monitors

When your eyes are covered or closed, you depend more on your balancing system and joint monitors.

When you move, your eyes watch where you are going, but you still use your balancing system and joint monitors.

Balance is important for your daily activities and for your sports.

**If your balance is poor, you may have these problems:**

- You may fall more easily when you stand up or move.
- You may trip or fall when you run and jump.
- You may fall more easily when you turn or reach.
AEROBIC FITNESS

Aerobic fitness is your ability to walk, run, wheel, or work for a long period without being unusually tired or short of breath.

Aerobic fitness allows you to perform your daily and sports activities without becoming too tired.

Aerobic fitness depends on good condition of your heart and blood vessels, and your lungs.

Aerobic fitness is important for your daily activities and for your sports.

If your fitness is poor, you may have these problems:

• You may get tired more easily when you are active.

• You may have to stop because you are short of breath.

• You may not be able to do the activities that you want.
Chapter 5

Forms
Welcome to FUNfitness, the fitness event developed by the American Physical Therapy Association (APTA) for Special Olympics Healthy Athletes®.

FUNfitness is the result of an established professional relationship between APTA and Special Olympics. In November 1999, APTA agreed to develop FUNfitness as a comprehensive physical therapy component for Special Olympics Healthy Athletes, an initiative that addresses ongoing health needs of Special Olympics athletes.

FUNfitness was introduced as a pilot in 2000 and revised to its current form. FUNfitness made its debut at the Special Olympics World Winter Games in Anchorage, Alaska, in March 2001. Training sessions are now held each year to train physiotherapists from around the world in developing the event.

FUNfitness is a screening event. The purposes of FUNfitness are to assess and improve flexibility, strength, balance and aerobic fitness; to educate participants, families and coaches about the importance of flexibility, strength, balance and aerobic fitness; and to provide a hands-on opportunity for athletes to learn about physical therapy.

Physical therapists assess flexibility of the hamstring, calf, shoulder rotator and hip flexor muscles; functional strength of the grip, upper extremity, abdominal and lower extremity muscles; balance (single-leg stance and functional reach) and aerobic fitness (6-minute walk, 5-minute wheel or Step Tests). The screening also provides instruction to athletes about how to stretch, strengthen and improve balance. Physical therapist assistants and physical therapist or physical therapist assistant students aid physical therapists in various aspects of the event.

If a state or country wishes to host FUNfitness at Special Olympics Games, the FUNfitness kit (manual, and samples of the score sheet, score card and pin) will be provided free of charge. Arrangements can be made with Special Olympics to purchase additional supplies for use at Games. If you have questions, please contact Donna Bainbridge, Global Advisor for FUNfitness & Fitness Programming, at dbridge@montana.com.
Special Olympics offers certain non-invasive health care services to athletes at local, state, national, and World Games venues through the Healthy Athletes program. These services may include individual screening assessments of health status and health care needs, provision of health education, routine preventive services (e.g. protective mouth guards), educational services, and, in the case of vision and hearing deficits, provision of needed eyewear (glasses, swim goggles, protective eyewear) and hearing aids. Athletes are informed as to their health status and advised of the need for follow-up care. In addition, information collected at the time services are provided has been invaluable for developing policies, securing resources, and implementing programs to better meet the health needs of athletes.

I understand that by signing below I consent to participate in the Special Olympics Healthy Athletes program that provides individual screening assessments of health status and health care needs in the areas of: vision; oral health; hearing; physical therapy; and a variety of health promotion areas (height, weight, sun protection, etc.). I understand there is no obligation for me to participate in the Healthy Athletes Program should I decide not to participate. Provision of these health services is not intended as a substitute for regular care. I also understand that I should seek my own independent medical advice and assistance irrespective of the provisions of these services and that Special Olympics is not through the provision of these provisions responsible for my health. I understand that information that is gathered as part of the screening process may be used in group form (anonymously) to assess and communicate the overall health needs of athletes and to develop programs to address those needs.

Authorization for Minors: I understand that by signing below I consent to ______________________ (athlete’s full name) participation in the Special Olympics Healthy Athletes program that provides individual screening assessments of health status and health care needs in the areas of: vision; oral health; hearing; physical therapy; and a variety of health promotion areas (height, weight, sun protection, etc.). I understand there is no obligation for the athlete named above to participate in the Healthy Athletes Program should the athlete decide not to participate or should I decide the athlete shall not participate. Provision of these health services is not intended as a substitute for regular care. I also understand that I should seek my own independent medical advice and assistance irrespective of the provisions of these services for the athlete named above and that Special Olympics is not through the provision of these provisions responsible for the health of the athlete named above. I understand that information that is gathered as part of the screening process may be used in group form (anonymously) to assess and communicate the overall health needs of athletes and to develop programs to address those needs.

_________________________________________________
Parent or Guardian (if athlete is under 18 years old)

_________________________________________________
Athlete (if 18 years old or older)

_______________________________________________  ______________________
Special Olympics Program                Date
### Uses Wheelchair
- O Yes
- O No

### Uses Assistive Device
- O Yes
- O No

### Wears splint or brace
- O Hand-Wrist
- O Elbow
- O Shoulder
- O Foot/Ankle
- O Knee
- O Hip
- O Back

### Any current diseases or injuries that may affect screening results?
- Problems with breathing or lungs
- Problems with heart
- Problems with circulation
- Pain: lower extremity
- upper extremity
- back
- neck
- head
- Sprain: foot or ankle
- knee
- hip
- hand or wrist
- elbow
- shoulder
- back
- neck
- Strain: foot
- leg
- thigh
- back or pelvis
- hand
- forearm
- arm
- shoulder
- scapula
- neck
- Skin Problems
- Fever, illness, or infection

### Physical Activity Habits
These questions relate to all physical activity, both Special Olympics and other activities.

#### On AVERAGE, how many days each week do you do some physical activity?
- O 3 - 7 days a week
- O 1 - 2 days a week

##### What activities do you usually participate in?
- O Walk-hike
- O Run-Jog
- O Race walk
- O Swim
- O Cycle
- O Weight Lift
- O Sport (football, basketball, hockey, gymnastics, athletics, etc)
- O Other

##### Why aren’t you physically active?
- O No available exercise facilities
- O No transportation
- O No interest
- O No fitness person to help me
- O Not safe
- O Physically unable
- O No one to exercise with
- O No equipment or clothes

#### Do you stretch routinely?
- O Several times each day
- O Once each day
- O Occasionally, but not every day
- O No regular stretching
- O Could not elicit response:
- O Refused to respond
- O Unable to respond
- O Unable to understand

### Flexibility

**HAMSTRING Muscle Group - supine (passive) knee extension**
- Left ___ degrees
- Right ___ degrees
- □ Unable to test because athlete:
  - O Refused to perform
  - O Unable to perform
  - O Unable to understand

**CALF Muscle Group - supine (passive) ankle dorsiflexion**
- Left ___ degrees
- Right ___ degrees
- □ Unable to test:
  - O Refused to perform
  - O Unable to perform
  - O Unable to understand

**ANTERIOR HIP Muscle Group - Modified Thomas Test**
- Left ___ degrees
- Right ___ degrees
- □ Unable to test:
  - O Refused to perform
  - O Unable to perform
  - O Unable to understand

**SHOULDER Muscle Group - Apley’s Test (functional shoulder rotation)**
Note the distance between or overlap of the index fingers, and asymmetry of rotation of either arm
- Left ___ inches
- Left ___ centimeters
- □ Asymmetry

- Right ___ inches
- Right ___ centimeters
- □ Asymmetry

**LEFT SIDE:**
- Within normal limits
- Less flexible than normal
- More flexible than normal

**RIGHT SIDE:**
- Within normal limits
- Less flexible than normal
- More flexible than normal

□ Education (Check if separation is greater than 6 inches, or if asymmetry occurs)
□ Unable to test:

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REV: 8/18/2006
Strength
LEG MUSCLES - Timed Stands Test (functional leg strength)
Time to perform 10 sit-to-stand maneuvers as quickly as possible without use of upper extremities
Time __________ minutes / seconds
☐ Education (Check if time to stand 10 times is greater than 20 seconds)
☐ Unable to test:
  ☐ Refused to perform  ☐ Unable to perform  ☐ Unable to understand

ABDOMINAL MUSCLES - Partial Sit-up Test
Number of sit-ups performed correctly in 1 minute
Number of sit-ups done in 1 minute ______
☐ Education (Check if number of sit-ups is less than 25)
☐ Unable to test:
  ☐ Refused to perform  ☐ Unable to perform  ☐ Unable to understand

FOREARM AND HAND MUSCLES - Grip Test
Maximum grip strength of each hand. Grip maximally for 6 seconds. Do 3 trials. Result is the best of 3 trials.
Dominant Hand:  ☐ Left  ☐ Right
LEFT HAND:  Trial 1 _____ lbs.  Trial 2 _____ lbs.  Trial 3 _____ lbs.  Highest result: _____ lbs.
RIGHT HAND:  Trial 1 _____ lbs.  Trial 2 _____ lbs.  Trial 3 _____ lbs.  Highest result: _____ lbs.
☐ Education (refer to tables for grip strength ranges in men and women.
  Check if grip is less than lower value of normal range for age and gender)
☐ Unable to test:
  ☐ Refused to perform  ☐ Unable to perform  ☐ Unable to understand

UPPER EXTREMITY MUSCLES - Seated Push-up Test (functional strength)
Push-up on the blocks without use of the legs. Try to hold for 20 seconds. Do 2 trials. Result is best trial.
Push-up Trial 1 _____ seconds  Trial 2 _____ seconds  Longest Trial: _____ seconds
☐ Education (Check if holding time is less than 5 seconds, or if asymmetry occurs)
☐ Unable to test:
  ☐ Refused to perform  ☐ Unable to perform  ☐ Unable to understand

Balance
Single Leg Stance
Time balance is maintained on one leg with eyes closed (or covered), AND with eyes open.
EYES OPEN
Left ______ seconds
Right ______ seconds
☐ Education (Check if time is less than 30 seconds with eyes open, or if asymmetry occurs)
EYES CLOSED OR COVERED
Left ______ seconds
Right ______ seconds
☐ Education (Check if time is less than 10 seconds, or if asymmetry occurs)
☐ Unable to test:
  ☐ Refused to perform  ☐ Unable to perform  ☐ Unable to understand

Standing Functional Reach (can be done sitting if athlete cannot stand)
Distance reached in forward direction with arm at 90 degrees elevation while maintaining independent balance
Left ______ inches  Right ______ inches
Left ______ cm  Right ______ cm
☐ Education (Check if distance reached is less than 8 inches, or if asymmetry occurs)
☐ Unable to test:
  ☐ Refused to perform  ☐ Unable to perform  ☐ Unable to understand

Aerobic Fitness
Check the test performed:  ☐ Six-Minute Walk Test  ☐ Five-Minute Wheel Test  ☐ Two Minute Step Test
Heart Rate (beats/min):  Initial ______ End Exercise ______ 2 Minutes after ______
Distance covered in test period (6 Minute Walk or 5 Minute Wheel Test) ________ Feet  or ________ Meters
Number of Steps taken in test period (2 Minute Step Test) ________ Steps
Rating of Perceived Exertion (RPE) after test ________ (Scale 1-10 by numbers, words or pictures)
☐ Education (Check if athlete performance suggests a need for aerobic fitness program)
☐ Unable to test:
  ☐ Refused to perform  ☐ Unable to perform  ☐ Unable to understand

Physical Therapist Referral recommended  ☐ Yes  ☐ No
Reasons for Recommendation:  ☐ Flexibility  ☐ Strength  ☐ Balance  ☐ Aerobic Fitness
SPECIAL OLYMPICS FUNfitness
EVENT SUMMARY FORM

Name of Event: _______________________________ Date(s) of Event: _________
Venue Location: ______________________________ Inside ☐  Outside ☐
FUNfitness Clinical Director: _______________________________
Your name/contact information if you are not state/country clinical director: _____________

Volunteers
Please provide the numbers of volunteers who assisted during this event.
Physical therapists ________________ Physical therapist assistants ________________
Physical therapist students ____________ Physical therapist assistants students __________
Parents _____________________________ Others _____________________________

Participant Tallies
Please provide the numbers of participants screened in the event.
Athletes competing ________________ Athletes screened _________________________
Athletes referred for additional services _________________________________

Professional Education Programs
Please list all PT and PTA educational programs that participated in the event and a contact
person for each program. ________________________________________________

Community Organizations
Please list all community organizations and groups that supported your event.
_____________________________________________________________________
_____________________________________________________________________

Publicity and Sponsors
Please list the key publicity that your event received (local press, notice in trade journals, article
in magazine) — attach samples if available. ___________________________________
_____________________________________________________________________

Please list all sponsors and their donations: ________________________________
Your Specific Event

Please relate any special activities that added excitement and success to your event.

Besides your critical volunteers, what factors were critical to your success?
(location, date, give-aways, community publicity)

Name three things that you could do better next year.

What factors (if any) negatively affected your event? (weather, location, lack of volunteers, conflicts with date)

Please return this form by fax, e-mail or mail within 30 days of your event to:

Shantae Polk, Manager, FUNfitness
Special Olympics, Inc.
1131 19th Street NW
Washington, DC 20036-3604
Fax (406) 824-0200
spolk@specialolympics.org

Donna Bainbridge, Global Advisor for FUNfitness and Fitness Programming
dbridge@montana.com
Fax (406) 243-2349
FUNfitness VOLUNTEER FORM

NAME: Mr., Ms., Dr.______________________________________________

ADDRESS:______________________________________________________

CITY: ___________________________  STATE:_________________________  ZIP:_______

(H) PHONE: ___________________________  FAX: ___________________________

(W) PHONE: ___________________________  E-MAIL: ___________________________

PROFESSIONAL DESIGNATION (circle)

PT   PTA   STUDENT PT STUDENT PTA

LICENSE NUMBER/STATE: ___________________________  EXPIRATION:____________

AVAILABILITY:

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Please return completed form to:
Confirmation of Professional Liability Insurance

In order to confirm that you have liability protection when you participate in an off-site event, please sign the following statement. Thank you.

“I, the undersigned, attest to the fact that I have an individual professional liability insurance policy or employer policy that is current and that applies to my providing physical therapy services outside my regular place of unemployment, including providing physical therapy services at an event such as ____________________________ .”

__________________________________________
Name (Please print)

__________________________________________
Signature

__________________________________________
Date
HOLD HARMLESS AGREEMENT
PURPOSE AND EXPLANATION

All health care providers recruited for or volunteering to conduct health screenings at Special Olympics Healthy Athletes events must have malpractice insurance, either from a private insurance carrier or through an institution, that is primary insurance and covers the volunteer for his/her Healthy Athletes related activities. Additionally, volunteer health care providers must have a valid license to practice in the state in which the Healthy Athletes event is being conducted. Special Olympics, Inc. (SOI) has medical malpractice insurance that provides secondary insurance coverage to a Healthy Athletes volunteer’s primary insurance coverage in the event that a malpractice/liability claim were filed against the volunteer, SOI and/or its Programs are located solely in the United States (the “SOI Insurance Policy”) and the policy requirements are satisfied. The specifics of the coverage are outlined below. To be eligible for coverage a volunteer must:

- Be covered by a primary medical malpractice insurance policy that applies to Healthy Athletes volunteer activities;
- Be properly licensed in the State where the services are provided; and
- Sign a hold harmless agreement

The purpose of the hold harmless agreement is to protect Special Olympics as an entity if it is brought into a claim as a result of the negligent actions of a Healthy Athletes volunteer. Similarly, the agreement protects the individual volunteer if he or she is brought into a claim resulting from the negligence of Special Olympics. The language in the agreement does not cause the individual volunteer to assume responsibility for Special Olympics for any conduct which is not connected with the volunteer’s actions. Special Olympics values and appreciates the services and dedication of its Healthy Athletes volunteers, but is not able to retain liability for potentially negligent acts of all volunteers in the program. Therefore, the mutual hold harmless language is a method by which each party is protected and protects the other for claims that may arise out of the program.

The SOI Insurance Policy provides the following coverage effective from 1/1/2005 to 12/31/2005. The policy covers volunteer Dentists (DDS, DMD), Doctors of Medicine and Osteopathy (MD, DO), Optometrists (OD), Podiatrists, physical therapists, and Audiologists providing non-invasive screening and educational material to athletes while acting in his/her professional capacity solely on behalf of Special Olympics as a Special Olympics registered volunteer in the U.S.

The policy applies excess of any other valid and collectible insurance. It provides a $1,000,000 per occurrence limit and $3,000,000 general aggregate, subject to a $5,000 deductible.

The SOI Policy ONLY provides coverage to parties at Healthy Athletes events conducted in the United States. Liability and legal requirements for volunteer health care providers at events outside of the United States are dictated by the laws of that country, province, state, etc. To protect both the health care providers and SOI, however, health providers at events outside the United States also MUST sign the hold harmless agreement prior to participating in a screening.
Hold Harmless Agreement

The individual(s) listed below shall defend, hold harmless and indemnify Special Olympics, Inc., and its local programs, and each organization’s directors, officers, agents, employees and volunteers from and against any and all liability, loss, expense (including reasonable attorney’s fees), or claims for injury or damages that are caused by or that are a result from the negligent or intentional acts or omissions by the person or entity named above who provides screening services as provided as part of the Special Olympics Healthy Athletes program.

Special Olympics, Inc. shall defend, hold harmless and indemnify the individual(s) listed below against any and all liability, loss, expense (including reasonable attorney’s fees), or claims for injury or damages that are caused by or that are a result of the negligent or intentional acts or omissions of Special Olympics, Inc. and/or its local programs, and each organization’s directors, officers, agents, employees, and volunteers with regard to the Special Olympics Healthy Athletes program.

SPECIAL OLYMPICS PROGRAM SIGNATURE AND EVENT INFORMATION:

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VOLUNTEER/AGENT FOR ORGANIZATION SIGNATURES:

Check if you DO NOT have malpractice Insurance

Check if you are a Clinical/ Medical STUDENT

Do you HAVE A VALID LICENSE to practice in State in which services are being delivered?

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FUNfitness VOLUNTEER FORM

NAME: Mr., Ms., Dr. ________________________________

ADDRESS:__________________________________________

CITY: ____________________________ STATE: __________ ZIP: __________

(H) PHONE: __________________________ FAX: __________________________

(W) PHONE: __________________________ E-MAIL: __________________________

PROFESSIONAL DESIGNATION (circle)

PT    PTA    STUDENT PT    STUDENT PTA

LICENSE NUMBER/STATE: ____________________________ EXPIRATION: __________

AVAILABILITY:

DATE: _____________

☐ 9:30 a.m.  1:00 p.m.
☐ 11:30 a.m. – 3:30 p.m.
☐ All Day

DATE: _____________

☐ 9:30 a.m.  1:00 p.m.
☐ 11:30 a.m. – 3:30 p.m.
☐ All Day

Please return completed form by date to:

Name
Address
City, State, ZIP
Home: ( ) xxx-xxxx
Mobile: ( ) xxx-xxxx
Or e-mail to @
Special Olympics FUNfitness EQUIPMENT

Contact Shantae Polk, Manager, at www.spolk@specialolympics.org to get two (2) FUNfitness banners for your event. You will keep these banners for use at subsequent events.

The following list of necessary equipment and supplies may need modification depending on the numbers of participants being screened.

Your Special Olympics Program might be able to provide electrical outlets and drapes when available, as well as some of the following equipment:

- 4 tables for Registration and Exit
- 6 tables for screening stations with mats for the tables if they are not padded
- 2 tables and 2 mats (floor or raised) for Education Station
- At least twenty-five (25) straight back chairs
- One (1) large or two (2) small partitions (use wall as a substitute)
- Badges for volunteers (4 different colors for PT, PTA, Student and Volunteer)
  This makes it easier to route people to the appropriate stations/tasks.
- Water for volunteers (May need coolers, cups, ice)
- Pencils, pens and clipboards (20 each), as well as
- Tape (packing or duct), pushpins, paper clips and scissors

You, as the FUNfitness host, will need to order and provide the following items from our FF distributor (contact Shantae Polk or Donna Bainbridge for information):

- Two (2) yardsticks with velcro on the back and matching pieces of velcro for the partition
  (Use tape measures in centimeters alternatively)
- Two (2) stools or blocks to use under the legs during the sit-up test
- At least twelve (12) goniometers (6 large and 6 small) – all 360 circle measures
- At least ten (10) tape measures (marked in inches and centimeters)
- At least eight (8) stopwatches or timers
- One set of adjustable push-up blocks
- One to two hand grip dynamometers
- At least two (2) tally counters
- At least 4 (4) pulse monitors
- Pieces of foam or wood (1/2, 1, 2 inches) to adjust height or leg position when testing on a chair
- Athlete Scorecards (based on anticipated numbers at event)
- FUNfitness pins
- FUNfitness gifts (based on anticipated numbers at event) - Each host will decide what to provide as gifts.
  Suggestions include hats, visors, stretching straps, water bottles, squeeze balls, cold packs. Items can be placed in a plastic bag from a local vendor.

The FUNfitness host should create the following for each event:

- HAS Scoresheets – can be customized and printed at http://www.specialolympics.org/Special+Olympics+Public+Website/English/Initiatives/Healthy_Athletes/FUNfitness/Forms/default.htm
- Signs for inside the event - can be hung with pins, tape, or on a hook.
- FLEXIBILITY   - Hip   - Hamstrings   - Heel Cords   - Shoulder
- STRENGTH      - Abdominals - Legs - Grip - Upper Body
- BALANCE        - Functional Reach - Single Leg Balance
- AEROBIC CONDITION
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Date

Name of Volunteer
Street Address
City, State, Zip Code

Dear Name:

Thank you for volunteering at the FUNfitness screening that was held at the name the event on date, year. Your enthusiastic efforts were a vital ingredient in making the screening a huge success! Volunteers screened more than [number] athletes, and provided valuable education for improving flexibility, strength and balance to athletes, coaches and caregivers. It was inspiring to see so many physical therapists, physical therapist assistants, students and family members working together to provide screening, education and care for such outstanding athletes.

Thanks again for volunteering your time and expertise! It was a privilege to meet and work with you. We hope to see you at next year’s state/country Special Olympics Games.

Sincerely,

Your name as the state/country FUNfitness Coordinator(s)
Address and contact information
Media Release Form

Please complete entire form:

I hereby grant permission to ________________________________

to photograph and/or video tape me and/or record my voice in connection with media projects
for inclusion in information to be disseminated on the role of physical therapy in the health
care delivery system.

Check one:

_____ physical therapy patient/client       _____ physical therapist student
_____ physical therapist                   _____ physical therapist assistant student
_____ physical therapist assistant        _____ model
_____ other (please explain):

Name:___________________________________________________________

Signature:_____________________________________________________

Address:_______________________________________________________

City:__________________________ State:____________ Zip:___________

Telephone Number:_____________________________________________
**FUNFITNESS VOLUNTEERS ROLES AND TASKS**

**Role:** Registration Station Volunteer

**Tasks**

1. Greet athletes and welcome them to FUNfitness.

2. Ask if they have mailed in a signed Healthy Athletes consent form.
   a. Check master Healthy Athletes consent form list in alphabetical order.
   b. If there is no completed consent form, athletes must complete one on the spot. If they are over 18 years old, their signature is sufficient. If they are under 18 years old, they must have a guardian or adult who is with them sign also.

3. File any new consent forms in alphabetical order in an accordion file folder, so if the athletes return on the same or the following day, they can be easily located.

4. If an athlete does not have an ID badge, use an index card to create a temporary badge. Write the athlete’s name on it and apply a colored dot indicating FUNfitness. The athlete can use the index card throughout the Healthy Athletes area and leave it at the exit station (in case they return to Healthy Athletes later or the next day).

5. Explain to the athletes that there are four stations for them to complete. They will receive a special dot for completing FUNfitness.

6. Place the athlete’s FUNfitness score sheet and an athlete score card on a clipboard.

7. Assign a guide to the athlete or to a group of athletes who come together.

8. Encourage athletes to visit stations that aren’t too busy.

9. Encourage athletes to complete all the tests in FUNfitness.
FUNFITNESS VOLUNTEERS ROLES AND TASKS

Role: Exit station volunteer

Tasks
1. Collect any completed FUNfitness forms (and any miscellaneous reporting forms from screening venues). File these in alphabetical order in the accordion file folder.

2. Give athletes a Healthy Athletes lapel pin for attending FUNfitness (this is a general attendance prize available to each athlete).

3. Give athletes a FUNfitness goody bag with prizes.

4. Place a FUNfitness dot on the back of the athletes’ ID badges. If they have at least four dots, they get to pick a grand Healthy Athletes prize (posters, water bottles, coin purses, gift certificates).

5. Encourage them to attend other venues in the Healthy Athletes event.

6. If athletes need help going to a competitive event, find an escort to assist them.
FUNFITNESS VOLUNTEERS ROLES AND TASKS

Role: Escort/Guide

Tasks
1. As athletes enter FUNfitness after registering, greet them and escort athlete(s) through the stations. Try to stay with one or a small group of athletes as possible as they move all stations.

2. Monitor number of athletes at various stations and guide them to less busy areas if there is a waiting line or crowd.

3. Try to make certain that the athlete completes all the stations.

4. Guide them to the Exit when all stations are completed.

5. Ask them when their next competitive event is and help them keep track of time so they don't miss their event. Allow 30 min. for them to be at their event prior to the start of time. Escort them back to their competitive event if they need assistance getting there.

6. If an athlete leaves FUNfitness without completing all stations, make certain that the partially completed form gets back to the Entrance station for filing in a special accordion file.
SAMPLE DIALOGUE TO EXPLAIN FUNFITNESS AT THE REGISTRATION STATION

• Welcome to FUNfitness

• We are physical therapists

• We have some tests we are doing to see:
  • How well you can stretch
  • How Strong you are
  • How good is your balance

• After we do each test, we will write down some numbers on this Form.

• I we think you need to do exercises to improve your flexibility, strength or balance we can show you some exercises that can help you do better in your competitions, or that will help you move better.

• Or we can recommend that you work with a physical therapist after today.

• You do not have to do these tests if you don’t want to.

• Would you like to do a FUNfitness screening with us?

• If so, please sign your name here.

SAMPLE DIALOGUE TO VERIFY UNDERSTANDING OF FUNFITNESS AT THE EXIT

• Thank you for doing the FUNfitness Screening.

• We are collecting the data forms on the athletes who do these tests.

• We enter the information on this form into a computer.

• We can then see how all of the athletes do on these tests.

• This use of information is called Research and it helps us plan better health services and tell others about the services that are needed.

• Whenever we use this information, your name will be kept private, so no one will know your information specifically.

• You do not have to let us use this information if you don’t want to.

• Would you let us keep this information about you to use in our computer? If so, please sign this form.
Dear Colleague,

I am writing this letter in my capacity as the State Coordinator for Special Olympics FUNfitness, a fitness screening developed by American Physical Therapy Association for Special Olympics in 2000. FUNfitness is an integral part of Special Olympics Healthy Athlete, a program of health screenings performed on members of Special Olympics at world, state and local events.

Many Special Olympics athletes screened at local or state games have need of referral to a physical therapist for examination/evaluation and intervention planning for both rehabilitation and fitness programming. These athletes have cognitive impairments and may also have physical disabilities. While some may have private insurance, many are insured by Medicaid or Medicaid/Medicare.

Special Olympics has created a health care Provider Directory which enables patients to find health care professionals in their area who are willing to treat patients with intellectual disabilities. APTA has endorsed this directory, and believes it is a valuable endeavor. We encourage you to enroll and to reach out to other health care providers to better serve this population.

The Provider Directory is currently online and open to all health care providers in the United States, Mexico, Canada and the Caribbean. Health care professionals sign up for the Directory on a voluntary basis; the Directory facilitates connection between people with intellectual disabilities and health care professionals willing and able to treat them. You can enroll at www.specialolympics.org/providerdirectory.

Thank you for consideration of this request. Please contact me if you have questions.

Best regards,

Name
Address
City, State, ZIP
Telephone
E-mail
PHYSICAL THERAPIST REFERRAL INFORMATION

Name (last, first, middle initial):

Professional credentials (degree, specialist, other profession, additional credentials):

Business name (if appropriate):

Address:

City: State: ZIP:

Telephone:

Fax:

E-mail (if desired):

PT license number:

Specialty areas of practice:

Preferred age range of clients:

Best time to contact:

Payers accepted:

Additional information:
PHYSICAL THERAPIST DATABASE
INFORMATION FORM

Name:

Professional credentials:

Business (Clinic) name:

Address:

City:                     State:                        ZIP:

Telephone:

E-mail (if preferred):

Best time to contact:

Hours of Operation:

Payers Accepted:

Practice Focus:

Comments:
presents this
Certificate of Participation to

Name Here

for successful participation in the Healthy Athlete FUNfitness Event

on

Date

in

City, State

Your name and credentials
Special Olympics State/Country FUNfitness Clinical Director
Screening Supplies Order Form & Checklist

Screening Information (for single or multiple screening events)

FF Clinical Director: ____________________________________________

Screening Location (city, state): ________________________________

Date of Event (mm/dd/yy): ________________________________

Anticipated # of athletes participating in SO event: ____________

Estimated # of athletes to be screened: ________________________

SOI FUNfitness Fulfillment (ordered by Shantae Polk, FF Manager) {donated as Value In Kind from SOI}:

Your donated supplies will be ordered and shipped after receipt of this form by SO HQs. Fax or email pages 1-3 of this form to SO HQs within at least four weeks before your scheduled event date.

Shantae Polk  
FUNfitness Manager  
Email: spolk@specialolympics.org  
Fax: 202-824-0200 or 202-628-3926

Please indicate below quantity needed for your screening event:

_____ FUNfitness 2x4 Banner – Two for NEW screenings only

_____ FUNfitness Athlete Scorecard

_____ FUNfitness Pins

Note: FF Data Forms are electronic. They can be located at http://www.specialolympics.org/SpecialOlympics+Public+Website/English/Initiatives/Healthy_Athletes/FUNfitness/Forms/default.htm. You can customize the event information, and copy for each athlete.
Screening Supplies Order Form & Checklist

Clinical Supplies Checklist (purchased by local SO Program)
SOI has arranged for clinical equipment to be purchased at a discounted rate through Sammons Preston. Please use the list below as a guide for items that you will need to purchase for your screening event. Funds to purchase these items are an allowable SO Healthy Athletes FUNfitness grant expense. Each SO Program has an account with Sammons, and can order the equipment online at http://www.sammonspreston.com/. Please order at least 4 weeks before your event to allow time for order fulfillment and shipping.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7541</td>
<td>12 ½ inch Int’l Goniometer</td>
</tr>
<tr>
<td>7512</td>
<td>8 inch Goniometer</td>
</tr>
<tr>
<td>7539</td>
<td>6 inch Goniometer</td>
</tr>
<tr>
<td>7542</td>
<td>Individual Hand Tally Counter</td>
</tr>
<tr>
<td>7528</td>
<td>Digital Readout Stopwatch</td>
</tr>
<tr>
<td>5335</td>
<td>Push-up Blocks, set of 2</td>
</tr>
<tr>
<td>926610</td>
<td>Smedley Handgrip Dynamometer</td>
</tr>
<tr>
<td>561316</td>
<td>Rolyan Level 2 Latex Free Band – 50 yd roll</td>
</tr>
<tr>
<td>561317</td>
<td>Rolyan Level 3 Latex Free Band – 50 yd roll</td>
</tr>
<tr>
<td></td>
<td>Stability Trainers (one pair Blue, one pair Green per state/country)</td>
</tr>
<tr>
<td>92924401</td>
<td>Blue pair</td>
</tr>
<tr>
<td>92924501</td>
<td>Green pair</td>
</tr>
</tbody>
</table>

ADDITIONAL ITEMS YOU MIGHT WANT:

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>541302</td>
<td>MediCordz Wrist Cuff, Medium</td>
</tr>
<tr>
<td>92924010</td>
<td>Economy Exercise Handles 10-pr</td>
</tr>
<tr>
<td>2718</td>
<td>Tri-fold Mat with Handles</td>
</tr>
<tr>
<td>5415</td>
<td>MediCordz Ankle Cinch Strap</td>
</tr>
<tr>
<td>5139</td>
<td>Cateye Heart Beat Counter</td>
</tr>
<tr>
<td>534001</td>
<td>Red Flex Bars – Regional/World Games ONLY</td>
</tr>
</tbody>
</table>
Screening Supplies Order Form & Checklist

Ship Supplies ordered from SOI to: (no PO Boxes)

Contact name: ____________________________________________

Street Address: __________________________________________

City, State or Province: ____________________________________

Country & Zip Code: _______________________________________

Contact Phone Number: ____________________________________

Contact Email: __________________________________________
Special Olympics has negotiated with a balloon company to have balloons produced with the FunFitness logo on them. Please use the order form below to order. Balloons must be ordered by the local Special Olympics Program and can be a covered Healthy Athletes FunFitness expense.

CUSTOM LATEX BALLOON ORDER FORM

Business Name: ________________________________________________________________

Ordered By: _____________________________ Date: _________________________________

Address: ____________________________________________________________________

City/State/Zip: __________________________________________________________________

Date Balloons are needed by: _____________________________________________________

Signature: _____________________________________________________________________

Phone Number: __________________ Fax Number: ________________________________

Email Address: __________________________________________________________________

If Repeat Order - Date of Last Order: __________________Sales Number: ______________

Quantity: __________________

Balloon Size: 12 inch

Balloon Color(s): Standard Assorted

Ink Color(s): Black

1 or 2 side: 1 side
Screening Supplies Order Form & Checklist

DISCOUNT HELIUM OF DALLAS  WWW.BALLOONBASEICS.COM
972-279-0086  FAX 972-279-0361  SALES@JUMBOBALLOONS.COM

Instructions:
Wording: (Supply wording exactly as it is to appear on the balloons)
FUNfitness LOGO IS ON FILE UNDER:

Logo is being mailed.
Artwork must be camera-ready; otherwise additional art charge will apply
MAIL ARTWORK TO: SALES@JUMBOBALLOONS.COM

*****PLEASE MAKE SURE TO REFERENCE YOUR COMPANY NAME ON EMAIL
Upon receipt of the artwork, custom balloons orders will take approximately 7-10 business days
to complete. Rush orders automatically require a faster shipping method (air freight). All freight
charges are paid by the customer and will be added to the order total. The freight method
cannot always be determined until the order is complete.

Payment is required to begin production.
Payment information:

Credit Card # __________________________ Exp Date: ________________
Authorizing Signature: __________________________________________

Name on Card: __________________________________________________

Address as it appears on CC statement:
STREET: ________________________________________________________
CITY/STATE/ZIP: ________________________________________________
Hand Grip Norms in Adults (Kgs)

Scores for Grasp in Pounds Pressure

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Females (Listed by Percentile)</th>
<th>Males (Listed by Percentile)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10th R/L</td>
<td>25th R/L</td>
</tr>
<tr>
<td>20-24</td>
<td>48/44</td>
<td>55/49</td>
</tr>
<tr>
<td>30-34</td>
<td>45/38</td>
<td>51/46</td>
</tr>
<tr>
<td>40-44</td>
<td>41/35</td>
<td>48/43</td>
</tr>
<tr>
<td>45-49</td>
<td>40/33</td>
<td>47/41</td>
</tr>
<tr>
<td>50-54</td>
<td>38/32</td>
<td>45/40</td>
</tr>
<tr>
<td>55-59</td>
<td>37/30</td>
<td>44/38</td>
</tr>
<tr>
<td>60-64</td>
<td>35/29</td>
<td>42/37</td>
</tr>
<tr>
<td>65-69</td>
<td>33/27</td>
<td>40/35</td>
</tr>
<tr>
<td>70-74</td>
<td>32/26</td>
<td>39/34</td>
</tr>
<tr>
<td>75-79</td>
<td>30/24</td>
<td>37/32</td>
</tr>
<tr>
<td>80-84</td>
<td>29/23</td>
<td>36/31</td>
</tr>
</tbody>
</table>
Hand Grip Norms in Children (Kgs)

Grip and Arm Strength in Males and Females

This study represents a survey of over 6,000 males and females aged 10 to 69 in the total community of Tecumseh, Michigan. The values over age 20 have been omitted for this publication.

Grip strength was measured using an adjustable Stoelting grip dynamometer. Two trials with each hand were made with suitable rest periods between. The score for each hand is the force in kilograms exerted in the better of two trials. The two grip strengths (right and left) were then summed for the chart in Table 26.

| TABLE 26. Percentile scores for sum of grip strengths (kg) |
|--------------|--------------|
| Percentile   | Age          |
|              | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| Males        |    |    |    |    |    |    |    |    |    |    |
| 90           | 34 | 42 | 52 | 69 | 89 | 96 | 106| 111| 117| 118|
| 80           | 30 | 37 | 47 | 60 | 80 | 90 | 99 | 105| 106| 113|
| 70           | 26 | 34 | 41 | 53 | 72 | 84 | 95 | 101| 109|    |
| 60           | 24 | 32 | 38 | 48 | 66 | 80 | 91 | 103| 104|    |
| 50           | 22 | 29 | 34 | 44 | 61 | 76 | 87 | 96 | 101|    |
| 40           | 20 | 26 | 31 | 42 | 56 | 73 | 84 | 93 | 98 |    |
| 30           | 18 | 23 | 30 | 39 | 54 | 69 | 78 | 81 | 90 | 94 |
| 20           | 16 | 21 | 27 | 34 | 49 | 64 | 74 | 76 | 90 |    |
| 10           | 11 | 16 | 23 | 28 | 39 | 55 | 68 | 70 | 81 | 84 |
| Mean         | 23.6| 30.2| 37.4| 47.5| 64.3| 76.6| 87.6| 91.5| 97.1| 102.0|
| SD           | 8.8 | 9.9 | 11.9| 14.4| 16.1| 15.1| 15.5| 15.2| 15.5| 13.7|
| N            | 104 | 116 | 120| 97 | 97 | 92 | 106| 85 | 55 | 54 |
| Females      |    |    |    |    |    |    |    |    |    |    |
| 90           | 30 | 37 | 44 | 49 | 65 | 60 | 58 | 61 | 59 | 63 |
| 80           | 25 | 33 | 40 | 44 | 50 | 54 | 53 | 54 | 55 | 59 |
| 70           | 22 | 30 | 36 | 41 | 48 | 49 | 49 | 50 | 52 | 54 |
| 60           | 20 | 27 | 33 | 38 | 44 | 45 | 48 | 47 | 49 | 50 |
| 50           | 18 | 25 | 31 | 36 | 41 | 43 | 43 | 44 | 46 | 48 |
| 40           | 17 | 23 | 28 | 34 | 39 | 41 | 41 | 43 | 43 | 46 |
| 30           | 15 | 20 | 25 | 32 | 36 | 38 | 39 | 39 | 39 | 42 |
| 20           | 14 | 17 | 22 | 30 | 32 | 36 | 36 | 36 | 39 |    |
| 10           | 10 | 12 | 18 | 26 | 27 | 31 | 33 | 31 | 31 | 36 |
| Mean         | 19.9| 26.2| 32.5| 37.8| 43.6| 45.7| 45.8| 46.8| 47.1| 49.9|
| SD           | 7.5 | 9.7 | 10.9| 9.5 |13.4| 10.8| 10.1| 12.1| 9.7 | 10.3|
| N            | 73 | 102 | 114| 83 | 85 | 89 | 89 | 64 | 48 | 47 |
SELECTED REFERENCES


