

# JAN

Job Accommodation Network

Practical Solutions • Workplace Success

## Accommodation and Compliance Series

# Accommodation and Compliance Series: Employees with Limitations from a Stroke

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Funded by a contract with the Office of Disability  
Employment Policy, U.S. Department of Labor

## Preface

The Job Accommodation Network (JAN) is funded by a contract with the Office of Disability Employment Policy, U.S. Department of Labor. JAN makes documents available with the understanding that the information be used solely for educational purposes. The information is not intended to be legal or medical advice. If legal or medical advice is needed, appropriate legal or medical services should be contacted.

JAN does not endorse or recommend any products or services mentioned in this publication. Although every effort is made to update resources, JAN encourages contacting product manufacturers/vendors and service providers directly to ensure that they meet the intended purposes. This guarantees that the most up-to-date information is obtained.

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## **JAN'S Accommodation and Compliance Series**

### **Introduction**

JAN's Accommodation and Compliance Series is designed to help employers determine effective accommodations and comply with Title I of the Americans with Disabilities Act (ADA). Each publication in the series addresses a specific medical condition and provides information about the condition, ADA information, accommodation ideas, and resources for additional information.

The Accommodation and Compliance Series is a starting point in the accommodation process and may not address every situation. Accommodations should be made on a case by case basis, considering each employee's individual limitations and accommodation needs. Employers are encouraged to contact JAN to discuss specific situations in more detail.

For information on assistive technology and other accommodation ideas, visit JAN's Searchable Online Accommodation Resource (SOAR) at <https://askjan.org/soar>.

### **Information about Stroke**

Many individuals who have had strokes recover without limitations. Some individuals have temporary limitations while others have more long-term issues. Strokes can occur at any age, but are more common in people 65 years or older. Individuals who have had strokes can have short or long-term limitations that are cognitive or motor related.

Accommodations for individuals who have had a stroke vary, but for those with vision loss, technologies are available to help them overcome these limitations. These technologies may help with reading printed material, accessing computer information, writing notes and completing forms, accessing a telephone, working with money, reading from an instrument, assembling parts, driving, working with light sensitivity, distinguishing colors, and being mobile.

Hemiparesis, which is a weakness of one side of the body, is one of many residual effects of having a stroke that limit physical or motor functioning. Depending on the area of the brain where the stroke occurred, either the left or the right side of the body may experience a reduction in muscle strength. The degree to which motor functioning is limited depends on the individual and improvement in physical ability can be seen as a result of therapy and various forms of treatment. Hemiparesis can also limit an individual's ability to perform a job or parts of a job, and those planning or preparing to return to work following a stroke may need to explore accommodation options. An individual experiencing hemiparesis may have difficulty walking, standing, balancing, climbing, grasping, or gripping objects for precision or detailed work tasks, and could

experience general muscle fatigue or a lack of coordination. Depending on the type of job and the essential functions of the position, one or more accommodations may be needed to ensure that a return to work is successful for an individual with hemiparesis.

Strokes can also impact communication in a variety of ways depending on the part of the brain affected. Three typical speech and language impairments arising from stroke include dysarthria and apraxia, which impact one's control over the movements of the muscles used in speaking; and aphasia, which causes difficulty understanding and using language. Some individuals who are recovering from stroke may have undergone evaluations to determine whether they would be helped by assistive technology such as augmentative and alternative communication (AAC) devices. This may be more likely for individuals with severe apraxia of speech that is not responding well to other treatments. They may also have learned or be in the process of learning compensatory techniques such as using a slower rate of speech or using other communication methods like typing, writing, drawing, or gesturing to support and enhance communication.

A stroke is a life-changing event that can affect an individual's emotional well-being as much as his/her physical function. Many of us know and understand the physical (weakness, paralysis), cognitive (memory, processing), and communication (speech, language) challenges stroke survivors face, but we may not be aware of the challenges faced when mood disorders occur as result of a stroke. Although stroke effects are unpredictable, mood disorders such as depression, anxiety, and pseudo-bulbar affect (PBA) are common.

In general, accommodations could include the purchasing of equipment or assistive technology for an individual who uses a computer or performs detail-oriented assembly work. If an individual uses a mobility aid such as a scooter or wheelchair, worksite and/or workstation modifications may need to be made. A restructuring of a job, either to perform essential functions in a different way or reallocate marginal functions, flexibility in breaks, and leave to seek treatment may be potential accommodations to explore. Reassignment to a vacant position may be necessary if accommodations cannot be made in the current job or if an accommodation would pose an undue hardship.

JAN's [Effective Accommodation Practices \(EAP\) Series: Executive Functioning Deficits](#) is a publication detailing accommodations for individuals with limitations related to executive functioning. These ideas may be helpful in determining accommodations.

## **Stroke and the Americans with Disabilities Act**

The ADA does not contain a list of medical conditions that constitute disabilities. Instead, the ADA has a general definition of disability that each person must meet. A person has a disability if he/she has a physical or mental impairment that substantially limits one or more major life activities, a record of such an impairment, or is regarded as having an impairment. For more information about how to determine whether a person has a disability under the ADA, see [How to Determine Whether a Person Has a Disability under the Americans with Disabilities Act Amendments Act \(ADAAA\)](#).

### **Accommodating Employees with Stroke**

People with stroke-related limitations may develop some of the limitations discussed below, but seldom develop all of them. Also, the degree of limitation will vary among individuals. Be aware that not all people who are aging will need accommodations to perform their jobs and many others may only need a few accommodations. The following is only a sample of the possibilities available. Numerous other accommodation solutions may exist.

#### **Questions to Consider:**

1. What limitations is the employee experiencing?
2. How do these limitations affect the employee and the employee's job performance?
3. What specific job tasks are problematic as a result of these limitations?
4. What accommodations are available to reduce or eliminate these problems? Are all possible resources being used to determine possible accommodations?
5. Has the employee been consulted regarding possible accommodations?
6. Once accommodations are in place, would it be useful to meet with the employee to evaluate the effectiveness of the accommodations and to determine whether additional accommodations are needed?
7. Do supervisory personnel and employees need training?

#### **Accommodation Ideas:**

##### **Limitations**

##### Attentiveness/Concentration

- Products

- Alternative Lighting
- Applications (apps)
- Apps for Concentration
- Cubicle Doors, Shields, and Shades
- Desk Organizers
- Desk Pedal Exercisers
- Electronic Organizers
- Environmental Sound Machines / Tinnitus Maskers / White Noise Machines
- Fidget Devices
- Focus Enhancement
- Full Spectrum or Natural Lighting Products
- Noise Canceling Earbuds
- Noise Canceling Headsets
- Noise Abatement
- Simulated Skylights and Windows
- Sound Absorption and Sound Proof Panels
- Sun Boxes and Lights
- Sun Simulating Desk Lamps
- Timers and Watches
- Wall Calendars and Planners
- Services
  - Job Coaches
- Strategies
  - Behavior Modification Techniques
  - Color Coded System
  - Flexible Schedule
  - Job Restructuring
  - Marginal Functions
  - Modified Break Schedule
  - Task Flow Chart

- Task Separation
- Telework, Work from Home, Working Remotely
- Uninterrupted "Off" Work Time
- Verbal Cues
- Worksite Redesign / Modified Workspace
- Written Instructions

## Balancing

- Living Independently
  - Bath Chairs
  - Canes
  - Crutches
  - Grab Bars
  - Grab Bars - Toilet Hinged Arm Support
  - Personal Safety and Fall Alert Devices
  - Rollators and Rolling Walkers
  - Scooters
  - Stair Assists
  - Stair Lifts
  - Swing Away Grab Bars
  - Toileting Aids
  - Walkers for Tall Individuals
  - Walkers with Seats
  - Walkers
- Moving Around
  - All-Terrain Scooters
  - All-Terrain Wheelchairs
  - Canes
  - Crutches
  - Leg Extenders for Walkers
  - Personal Transportation and Mobility Products
  - Rollators and Rolling Walkers

- Rolling Safety Ladders
- Scooters
- Stair Assists
- Stair Lifts
- Walkers
- Walkers for Tall Individuals
- Walkers with Seats
- Working at Heights
  - Aerial Lifts
  - Fall Protection
  - Rolling Safety Ladders
- Working Safely
  - Anti-fatigue Matting
  - Evacuation Devices
  - Fall Protection
  - Padded Edging
  - Personal Safety and Fall Alert Devices
  - Protective Eyewear

#### Control of Anger/Emotions

- Products
  - Apps for Miscellaneous Mental Health / Control of Anger & Emotions
  - Environmental Sound Machines / Tinnitus Maskers / White Noise Machines
  - Simulated Skylights and Windows
  - Sun Boxes and Lights
- Services
  - Counseling/Therapy
  - Disability Awareness/Etiquette Training
  - Employee Assistance Program
  - Job Coaches

- Strategies
  - Behavior Modification Techniques
  - Communicate Another Way
  - Complying with Behavior and Conduct Rules
  - Flexible Schedule
  - Job Restructuring
  - Modified Break Schedule
  - Positive Feedback
  - Reassignment
  - Supervisory Methods
  - Support Animal
  - Support Person
  - Telework, Work from Home, Working Remotely

#### Decreased Stamina/Fatigue

- Products
  - Aide/Assistant/Attendant
  - Anti-fatigue Matting
  - Elevating Wheelchairs
  - Ergonomic Equipment
  - Scooters
  - Stand-lean Stools
  - Walkers
  - Wearable Anti-fatigue Matting
  - Wheelchairs
- Services
  - Aide/Assistant/Attendant
  - Ergonomic Assessments
- Strategies
  - Flexible Schedule
  - Job Restructuring
  - Periodic Rest Breaks

- Task Rotation
- Task Separation
- Telework, Work from Home, Working Remotely
- Worksite Redesign / Modified Workspace

#### Drooling

- Drooling Aids
- Flexible Schedule
- Rest Area/Private Space
- Telework, Work from Home, Working Remotely

#### Executive Functioning Deficits

- Apps for Concentration
- Apps for Memory
- Checklists
- Color Coded System
- Cubicle Doors, Shields, and Shades
- Environmental Sound Machines / Tinnitus Maskers / White Noise Machines
- Extra Time
- Flexible Schedule
- Form Generating Software
- Full Spectrum or Natural Lighting Products
- Job Coaches
- Job Restructuring
- Marginal Functions
- Memory Software
- Modified Break Schedule
- Noise Canceling Earbuds
- Noise Canceling Headsets
- On-site Mentoring
- Recorded Directives, Messages, Materials
- Reminders

- Sound Absorption and Sound Proof Panels
- Speech Recognition Software
- Sun Boxes and Lights
- Sun Simulating Desk Lamps
- Timers and Watches
- Wall Calendars and Planners
- Written Instructions

## Grasping

- Industrial Setting
  - Anti-vibration Gloves
  - Anti-vibration Tool Wraps
  - Compact Material Handling
  - Ergonomic and Pneumatic Tools
  - Mop Buckets
  - Mops and Mop Handles
  - Motorized Carts
  - Multi-Purpose Carts
  - Tool Balancers
- Office Setting
  - Auto-dialers
  - Automated Filing Systems
  - Book Holders
  - Dental and Surgical Instruments
  - Electric Scissors
  - Ergonomic Scissors
  - File Carousels
  - Filing Trays
  - Grip Aids
  - Hands-free Telephones
  - Headsets
  - Left Hand-Dominant Keyboards

- Money Handling Products
- One-Handed Keyboards
- Page Turners
- Reachers
- Scribe/Notetaker
- Shoulder Rests for Telephone Handsets
- Writing Aids
- Other
  - Aide/Assistant/Attendant
  - Door Knob Grips and Handles
  - Ergonomic Knives
  - Steering Grips

#### Handling/Fingering

- Industry Work
  - Anti-vibration Gloves
  - Anti-vibration Tool Wraps
  - Compact Material Handling
  - Ergonomic and Pneumatic Tools
  - Extra Grip Gloves
  - Grip Aids
  - Money Handling Products
  - Vacuum Pickup Tools
- Office Work
  - Alternative Input Devices
  - Alternative Keyboards
  - Alternative Mice
  - Articulating Keyboard Trays
  - Book Holders
  - Ergonomic Equipment
  - Expanded Keyboards
  - Forearm Supports

- Keyguards
- Miniature Keyboards
- On-Screen Keyboards
- One-Handed Keyboards
- Page Turners
- Speech Recognition Software
- Typing / Keyboarding Aids
- Writing Aids
- Other/Services
  - Aide/Assistant/Attendant
  - Periodic Rest Breaks
  - Scribe/Notetaker

## Lifting

- Agriculture/Farm
  - Animal Lift Tables
  - Carts
  - Compact Material Handling
- Industrial
  - Aerial Lifts
  - Ball Transfer Tables
  - Battery Powered Lift Tables
  - Drum Handling
  - Engine Lifts and Lift Plates
  - Lift Gates
  - Lift Tables
  - Rolling Safety Ladders
  - Stairclimbing Handtrucks
  - Truck Mounted Cranes
  - Vacuum Lifts
  - Vehicle Lifts and Manipulators
  - Winches and Chain Hoists

- Work Platforms
- Office or Retail Goods
  - Carts
  - Compact Material Handling
  - Ergonomic Assessments
  - Ergonomic Equipment
  - Height Adjustable Table Legs
  - Low Task Chair
  - Stairclimbing Handtrucks
- Other
  - Drywall and Wallboard Lifts
  - Ergonomic Equipment
  - Independent Living Aids
  - Job Restructuring
  - Lifters and Carriers for Mobility Aids
  - Lifting Aids
  - Manhole Cover Lifts
  - Periodic Rest Breaks
  - Power Lift IV Stands
  - Proper Lifting Techniques
- People
  - Accessible Baby Changing Stations
  - Adjustable Exam Tables
  - Adult Changing Tables
  - Bath Chairs
  - Evacuation Devices
  - Large-Rated Wheelchair Lifts
  - Patient Lifts (General)

## Memory Loss

- Products
  - Apps for Memory

- Break Reminder Software
- Electronic Organizers
- Form Generating Software
- Labels/Bulletin Board
- Medication Reminders
- Memory Software
- Notepad or White Board
- On-Screen "Ruler" / Strip
- Timers and Watches
- Wall Calendars and Planners
- Strategies
  - Additional Training Time / Training Refreshers
  - Checklists
  - Color Coded System
  - Color-coded Manuals, Outlines, and Maps
  - Extra Time
  - Recorded Directives, Messages, Materials
  - Reminders
  - Supervisory Methods
  - Support Person
  - Task Flow Chart
  - Task Separation
  - Verbal Cues
  - Voice Recorders
  - Written Instructions
  - Written Forms and Prompts

#### Mental Confusion

- Products
  - PDAs, Notetakers, and Laptops
- Services
  - Employee Assistance Program

- Job Coaches
- Strategies
  - Marginal Functions
  - On-site Mentoring
  - Reminders
  - Supervisory Methods
  - Training Modifications
  - Written Instructions

### Organizing/Planning/Prioritizing

- Products
  - Apps for Organization/ Time Management
  - Desk Organizers
  - Electronic Organizers
  - Ergonomic Equipment
  - Labels/Bulletin Board
  - Note Collection Software and Technology
  - Notepad or White Board
  - Organization Software
  - Timers and Watches
  - Wall Calendars and Planners
  - Workflow Management Software
- Services
  - Job Coaches
  - Professional Organizers
- Strategies
  - Additional Training Time / Training Refreshers
  - Checklists
  - Color Coded System
  - Color-coded Manuals, Outlines, and Maps
  - Job Restructuring
  - Marginal Functions

- On-site Mentoring
- Organization/Prioritization Skills
- Recorded Directives, Messages, Materials
- Reminders
- Supervisory Methods
- Task Flow Chart
- Task Identification
- Task Separation
- Written Instructions

## Pain

- Industrial
  - Adjustable Workstations for Industrial Settings
  - Anti-fatigue Matting
  - Anti-vibration Gloves
  - Anti-vibration Seats
  - Anti-vibration Tool Wraps
  - Carts
  - Compact Material Handling
  - Wearable Anti-fatigue Matting
- Office
  - Adjustable Workstations for Office Settings
  - Alternative Keyboards
  - Alternative Mice
  - Chairs with Head Support
  - Ergonomic and Adjustable Office Chairs
  - Ergonomic Assessments
  - Ergonomic Equipment
  - Forearm Supports
  - Gooseneck and Other Telephone Holders
  - Scribe/Notetaker
  - Speech Recognition Software

- Supine Workstations
- Writing Aids
- Other
  - Aide/Assistant/Attendant
  - Automatic Door Openers
  - Flexible Schedule
  - Modified Break Schedule
  - Scooters
  - Service Animal
  - Stand-lean Stools
  - Telework, Work from Home, Working Remotely
  - Worksite Redesign / Modified Workspace
  - Workstation Space Heaters

#### Standing

- Adjustable Workstations for Industrial Settings
- Adjustable Workstations for Office Settings
- Anti-fatigue Matting
- Assist Lift Cushions
- Elevating Lift and Office Chairs
- Flexible Schedule
- Grab Bars
- Periodic Rest Breaks
- Scooters
- Stand Aids
- Stand-lean Stools
- Stand-up Wheelchairs
- Wearable Anti-fatigue Matting

#### Toileting/Grooming Issue

- Accessible Toilets and Toilet Seats
- Aide/Assistant/Attendant

- Flexible Schedule
- Grab Bars - Toilet Hinged Arm Support
- Grooming and Dressing Aids
- Independent Living Aids
- Modified Break Schedule
- Swing Away Grab Bars
- Telework, Work from Home, Working Remotely
- Toileting Aids
- Transfer Aids
- Worksite Redesign / Modified Workspace

#### Unintelligible Speech

- Augmentative and Alternative Communication (AAC) Device
- Communicate Another Way
- Job Restructuring
- Speech Generating Communication Devices with Telephone Access

#### Walking

- Aide/Assistant/Attendant
- All-Terrain Scooters
- All-Terrain Wheelchairs
- Anti-fatigue Matting
- Foldable / Transport Wheelchairs
- Large-Rated Scooters
- Large-Rated Wheelchairs
- Personal Transportation and Mobility Products
- Reclining Wheelchairs
- Rollators and Rolling Walkers
- Scooters
- Scooters for Small Stature
- Telework, Work from Home, Working Remotely
- Walkers

- Walkers for Tall Individuals
- Walkers with Seats
- Wearable Anti-fatigue Matting
- Wheelchairs
- Wheelchairs for Small Stature
- Worksite Redesign / Modified Workspace

## **Work-Related Functions**

### Commute

- Flexible Schedule
- Ridesharing/Carpooling
- Telework, Work from Home, Working Remotely
- Transportation Assistance

### Parking

- Accessible Parking Space
- Flexible Schedule
- Telework, Work from Home, Working Remotely
- Wheelchairs

### Stress

- Apps for Anxiety and Stress
- Behavior Modification Techniques
- Counseling/Therapy
- Flexible Schedule
- Job Restructuring
- Marginal Functions
- Modified Break Schedule
- Monitor Mirrors
- On-site Mentoring
- Service Animal
- Simulated Skylights and Windows
- Supervisory Methods

- Support Animal
- Support Person
- Telework, Work from Home, Working Remotely
- Uninterrupted Work Time

## **Situations and Solutions:**

### **A court employee was having difficulty with emotions after returning to work following an acquired brain injury due to a stroke.**

She was diagnosed with pseudo-bulbar affect (PBA) that caused outbursts of uncontrollable laughter at seemingly inappropriate times. The employee asked that her co-workers be educated on PBA so they would better understand what could be viewed as inappropriate behavior. The employee agreed to talk to her neurologist about the training. She was also accommodated with extra breaks to help manage her stress, a temporary lightening of her workload, and a flexible schedule to allow her time for counseling and doctor appointments.

### **A customer service representative for a financial institution had long-term blurry vision from a stroke and could no longer read his computer screen.**

The employer provided screen reading software for his computer so that information present on the screen and information inputted into the system would be read back to him.

### **A teacher had been released to return to work following a stroke resulting in hemiparesis of her dominant left side.**

The individual had undergone treatment and rehabilitation, but had trouble balancing, standing, walking, and grasping small items, such as a pen. Accommodations provided included a stand/lean stool, a height-adjustable laptop tray with a laptop connected to the classroom smart board, low-tech grip aids for writing, and grab bars placed along the walls of the class and in the hallways for assistance with balancing.

### **An assistant manager for a nonprofit had complete loss of vision in one eye and low vision in the other due to a stroke.**

The individual was having problems reading printed paper copies and emails. A portable magnifier, stand magnifier, and a closed-circuit television (CCTV) were used to magnify materials.

### **An automobile parts assembler had hoped to regain strength in his dominant right side following a stroke resulting in hemiparesis.**

He had exhausted FMLA leave and decided to request reassignment. He was placed in a vacant stock clerk position that was less physically demanding. He was also provided a scooter to access the facility and a tablet device was mounted to the handlebars, which allowed him to access purchasing and receiving documents with one hand.

### **A medical receptionist was returning to work following a stroke resulting in hemiparesis of her non-dominant left side.**

She had difficulty holding the phone while taking notes and typing information into a computer. Her employer provided a wireless headset and a one-handed keyboard as accommodations.

**An employee returning to work after a stroke was dealing with depression.**

As a result, the employee's performance was impaired and the previous supervisory method was no longer effective. The supervisor agreed to meet with the employee weekly to discuss performance and conduct issues that were becoming problematic, as well as put accommodations into place. Among the accommodations: a flexible schedule for health care appointments, a diagram to help with the flow of duties, templates to assist in report writing, and a move to an area with more natural lighting.

## **Products**

There are numerous products that can be used to accommodate people with limitations. JAN's Searchable Online Accommodation Resource at <https://askjan.org/soar> is designed to let users explore various accommodation options. Many product vendor lists are accessible through this system; however, JAN provides these lists and many more that are not available on the Web site upon request. Contact JAN directly if you have specific accommodation situations, are looking for products, need vendor information, or are seeking a referral.

## Resources

### **Job Accommodation Network**

West Virginia University  
PO Box 6080  
Morgantown, WV 26506-6080  
Toll Free: (800) 526-7234  
TTY: (304) 293-7186  
Fax: (304) 293-5407  
[jan@askjan.org](mailto:jan@askjan.org)  
<http://AskJAN.org>

The Job Accommodation Network (JAN) is a free consulting service that provides information about job accommodations, the Americans with Disabilities Act (ADA), and the employability of people with disabilities.

### **Office of Disability Employment Policy**

200 Constitution Avenue,  
NW, Room S-1303  
Washington, DC 20210  
Toll Free: (866) 633-7365  
[odep@dol.gov](mailto:odep@dol.gov)  
<http://dol.gov/odep>

The Office of Disability Employment Policy (ODEP) is an agency within the U.S. Department of Labor. ODEP provides national leadership to increase employment opportunities for adults and youth with disabilities while striving to eliminate barriers to employment.

### **American Congress of Rehabilitation Medicine (ACRM)**

11654 Plaza America Drive, Suite 535  
Reston, VA 20190-4700  
Toll Free: (833) 428-0820  
[info@ACRM.org](mailto:info@ACRM.org)  
<https://acrm.org/>

ACRM is improving lives through interdisciplinary rehabilitation research

- We are an association created to IMPROVE LIVES of individuals with disability
- ACRM has a 95+ year history
- We work with hospitals, universities, professional and advocacy organizations, and rehabilitation professionals GLOBALLY
- We are the *fastest-growing* professional association in physical medicine and rehabilitation
- We have 3,000+ members from more than 65 countries
- We have 20+ special-interest and networking groups and steadily growing
- We are interprofessional
- We promote evidence-based practice and practice-based research
- We are inclusive
- We embrace diverse opinions and thoughts in order to get the science into practice FASTER

### **American Heart Association**

7272 Greenville Avenue

Dallas, TX 75231

Toll Free: (800) 242-8721

[Review.personal.info@heart.org](mailto:Review.personal.info@heart.org)

<http://www.heart.org/HEARTORG/>

The American Heart Association is dedicated to providing education and information on fighting heart disease and stroke. Our mission is to build healthier lives, free of cardiovascular diseases and stroke. That single purpose drives all we do.

### **American Physical Therapy Association**

<http://www.moveforwardpt.com/Default.aspx>

MoveForwardPT.com is the official consumer information website of the American Physical Therapy Association.

**American Stroke Association**

7272 Greenville Avenue

Dallas, TX 75231

Toll Free: (888) 478-7653

<http://www.strokeassociation.org>

The American Stroke Association mission is to build healthier lives, free of cardiovascular disease and stroke.

**BrainandSpinalCord.org**

Toll Free: (877) 357-8423

<http://www.brainandspinalcord.org/>

Our mission is to be the most reliable, timely and complete resource on the internet for brain injury and spinal cord injury survivors. Our hope is that this site will become relied upon as a trustworthy resource for the community and for those who are searching for information.

**Centers for Disease Control and Prevention**

1600 Clifton Rd

Atlanta, GA 30333

Toll Free: (800) 232-4636

<http://www.cdc.gov>

The Centers for Disease Control and Prevention are dedicated to protecting the health and safety of people - at home and abroad, providing credible information to enhance health decisions, and promoting health through strong partnerships.

**Christopher & Dana Reeve Foundation**

636 Morris Turnpike

Suite 3A

Short Hills, NJ 07078

Toll Free: (800) 225-0292

Direct: (973) 379-2690

[TeamReeve@ChristopherReeve.org](mailto:TeamReeve@ChristopherReeve.org)

[http://www.christopherreeve.org/site/c.ddJFKRNoFiG/b.4048063/k.67BA/The Christopher amp Dana Reeve Foundation Paralysis amp Spinal Cord Injury.htm](http://www.christopherreeve.org/site/c.ddJFKRNoFiG/b.4048063/k.67BA/The_Christopher_amp_Dana_Reeve_Foundation_Paralysis_amp_Spinal_Cord_Injury.htm)

The Reeve Foundation is dedicated to curing spinal cord injury by funding innovative research, and improving the quality of life for people living with paralysis through grants, information and advocacy.

**Eunice Kennedy Shriver National Institute of Child Health and Human Development**

31 Center Drive

Building 31, Room 2A32

Bethesda, MD 20892-2425

Toll Free: (800) 370-2943

Fax: (866) 760-5947

[NICHDInformationResourceCenter@mail.nih.gov](mailto:NICHDInformationResourceCenter@mail.nih.gov)

<http://www.nichd.nih.gov/Pages/index.aspx>

The mission of the NICHD is to ensure that every person is born healthy and wanted, that women suffer no harmful effects from reproductive processes, and that all children have the chance to achieve their full potential for healthy and productive lives, free from disease or disability, and to ensure the health, productivity, independence, and well-being of all people through optimal rehabilitation.

**Eunice Kennedy Shriver National Institute of Child Health and Human Development**

P.O. Box 3006

Rockville, MD 20847

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[NICHDInformationResourceCenter@mail.nih.gov](mailto:NICHDInformationResourceCenter@mail.nih.gov)

<http://www.nichd.nih.gov/Pages/index.aspx>

The mission of the NICHD is to ensure that every person is born healthy and wanted, that women suffer no harmful effects from reproductive processes, and that all children have the chance to achieve their full potential for healthy and productive lives, free from disease or disability, and to ensure the health, productivity, independence, and well-being of all people through optimal rehabilitation.

**Heart and Stroke Foundation of Canada**

K1P 5V9

Ottawa

Direct: (613) 569-4361

Fax: (613) 569-3278

<http://www.heartandstroke.com/site/c.iklQLcMWJtE/b.2796497/k.BF8B/Home.htm>

The mission of the Heart and Stroke Foundation of Canada is to further the study, prevention, and reduction of disability and death from heart disease and stroke through research, education, and the promotion of healthy lifestyles.

**Mayo Clinic**

13400 E. Shea Blvd.

Scottsdale, AZ 85259

Direct: (480) 301-8000

<http://www.mayoclinic.org/>

The Mayo Clinic's mission to inspire hope and contribute to health and well-being by providing the best care to every patient through integrated clinical practice, education and research.

**MedlinePlus**

8600 Rockville Pike

Bethesda, MD 20894

[custserv@nlm.nih.gov](mailto:custserv@nlm.nih.gov)

<https://www.nlm.nih.gov/medlineplus/>

MedlinePlus is the National Institutes of Health's Web site for patients and their families and friends. Produced by the National Library of Medicine, the world's largest medical library, it brings you information about diseases, conditions, and wellness issues in language you can understand. MedlinePlus offers reliable, up-to-date health information, anytime, anywhere, for free.

Created by the U.S. National Library of Medicine

**National Blood Clot Alliance**

110 North Washington Street

Suite 328

Rockville, MD 20850

Toll Free: (877) 466-2568

Direct: (301) 825-9587

[info@stopthecлот.org](mailto:info@stopthecлот.org)

<https://www.stopthecлот.org/>

The National Blood Clot Alliance (NBCA) is a 501(c)(3), non-profit, voluntary health organization dedicated to advancing the prevention, early diagnosis and successful treatment of life-threatening blood clots such as deep vein thrombosis, pulmonary embolism, and clot-provoked stroke.

NBCA works on behalf of people who may be susceptible to blood clots, including, but not limited to, people with clotting disorders, atrial fibrillation, cancer, traumatic injury, and risks related to surgery, lengthy immobility, child birth and birth control.

NBCA accomplishes its mission through programs that build public awareness, educate patients and healthcare professionals, and promote supportive public and private sector policy.

### **National Center for Biotechnology Information**

8600 Rockville Pike

Bethesda, MD 20894

[pubmedcentral@ncbi.nlm.nih.gov](mailto:pubmedcentral@ncbi.nlm.nih.gov)

<http://www.ncbi.nlm.nih.gov/>

MISSION: IMS brings together an international community of health care professionals, researchers, educators, and others to improve care and transform delivery of treatment to those suffering from soft tissue pain through the promotion and exchange of globally recognized research, education, and innovation in patient care.

### **National Heart, Lung, and Blood Institute**

P.O. Box 30105

Attention: Website

Bethesda, MD 20824-0105

Direct: (301) 592-8573

Fax: (240) 629-3246

[nhlbiinfo@nhlbi.nih.gov](mailto:nhlbiinfo@nhlbi.nih.gov)

<http://www.nhlbi.nih.gov/>

The National Heart, Lung, and Blood Institute (NHLBI) provides leadership for a national program in diseases of the heart, blood vessels, lung, and blood.

### **National Institute of Neurological Disorders and Stroke**

P.O. Box 5801

Bethesda, MD 20824

Toll Free: (800) 352-9424

Direct: (301) 496-5751

<http://www.ninds.nih.gov>

The NINDS, an agency of the U.S. Federal Government and a component of the National Institutes of Health and the U.S. Public Health Service, is a lead agency for the congressionally designated Decade of the Brain, and the leading supporter of biomedical research on disorders of the brain and nervous system.

**National Institute on Aging**

31 Center Drive  
MSC 2292  
Bethesda, MD 20892  
Toll Free: (800) 222-2225  
[niaic@nia.nih.gov](mailto:niaic@nia.nih.gov)  
<https://www.nia.nih.gov/>

At NIA, our mission is to discover what may contribute to a healthy old age as well as to understand and address the disease and disability sometimes associated with growing older. In pursuit of these goals, our research program covers a broad range of areas, from the study of basic cellular changes that occur with age to the examination of the biomedical, social, and behavioral aspects of age-related conditions, including Alzheimer's disease.

**National Stroke Association**

9707 E. Easter Lane  
Suite B  
Centennial, CO 80112  
Toll Free: (800) 787-6537  
[info@stroke.org](mailto:info@stroke.org)  
<http://www.stroke.org/>

Our mission is to reduce the incidence and impact of stroke by developing compelling education and programs focused on prevention, treatment, rehabilitation and support for all impacted by stroke.

**Office on Women's Health**

Department of Health and Human Services  
200 Independence Avenue, SW Room 712E  
Washington, DC 20201  
Toll Free: (800) 994-9662  
Direct: (202) 690-7650  
Fax: (202) 205-2631  
<http://www.womenshealth.gov/>

The Office on Women's Health (OWH), part of the U.S. Department of Health and Human Services (HHS), works to improve the health and sense of well-being of all U.S.

women and girls. OWH serves as the focal point for women's health activities across HHS offices and agencies and leads HHS efforts to ensure that all women and girls achieve the best possible health.

**Society for Neuroscience**

1121 14th Street, NW  
Suite 1010  
Washington, DC 20005  
Direct: (202) 962-4000  
<http://www.sfn.org/>

The Society for Neuroscience promotes the exchange of information among researchers.

**U.S. Department of Veterans Affairs**

Toll Free: (844) 698-2311  
<http://www.va.gov/>

The Agency is responsible for providing employment, training, educational and reemployment rights information and assistance to veterans, and other military personnel who are preparing to transition from the military. Also provide hearing aids. All World War I veterans are eligible to receive free hearing aids. Other veterans can receive free hearing aids if their hearing loss is at least 50% service-related.

**Vascular Cures**

555 Price Avenue  
Suite 180  
Redwood City, CA 94063  
Direct: (650) 368-6022  
[info@vascularcures.org](mailto:info@vascularcures.org)  
<http://vascularcures.org>

Vascular Cures is the only 501(c)3 nonprofit organization representing the millions of patients with Vascular Disease in the U.S. We focus on creating long-term, shared resources to accelerate development of new treatments and improve patient health.



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