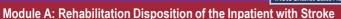
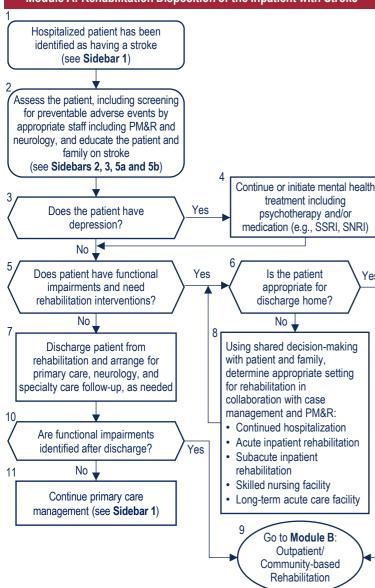
VA/DoD CLINICAL PRACTICE GUIDELINES

Management of Stroke Rehabilitation





Sidebar 1: Essential Guidelines for the Medical Management of Stroke

- 2019 Update to the 2018 AHA/ASA Guidelines for the Early Management of Patients with Acute Ischemic Stroke
- 2021 AHA/ASA Guidelines for the Prevention of Stroke in Patients with Stroke and Transient Ischemic Attack
- 2022 AHA/ASA Guidelines for the Management of Spontaneous Intracerebral Hemorrhage

Sidebar 2: Assessment of Impairments and Disabilities

Assessment of impairments Auditory/hearing

- Bowel and bladder
- Cognition Communication
- Emotion tolerance/aerobic capacity
- · Inattention/neglect
- Motor/mobility/balance
- Swallowing and nutrition Tactile/touch/somatosensory
- Vision and formal visual fields
- Vestibular

Assessment of support system

- · Family, caregivers, community
- · Military leadership/structure, if applicable

· Social determinants of health (e.g., financial, employment, transportation)

Assessment of barriers to

Communication impairment

• Mental health (e.g., depression)

participation in therapy

· Cognitive impairment

Fatigue and sleep

Medical conditions

Motivation

Pain

Assessment of activity and function

- · ADLs (e.g., feeding, dressing, grooming) and IADLs (e.g., finances,
- shopping) Driving
- Meaningful roles (e.g., parent, spouse)
- · Return to work/duty or school · Sexual function and intimacy

Sidebar 3: Stroke Education Topics

Stroke signs and symptoms - BE FAST

- Balance Sudden difficulty with balance or coordination, dizziness, vertigo
- Eyes Sudden blurred, double, or loss of vision in one or both eyes • Face – Sudden facial droop/weakness on one side of the face
- Arm Sudden weakness in one arm
- Speech Slurred speech, unable to speak, or difficulty understanding speech
- Time If any of these symptoms occur, call 911. Time is critical for stroke.

Common causes of stroke

- Ischemic stroke (80-90% of all strokes) Heart conditions, such as atrial fibrillation
- ◆ Atherosclerosis of the large arteries in the neck and brain
- Small vessel disease
- ♦ ~30% of ischemic strokes are not found to have a clear cause (cryptogenic)
- Hemorrhagic stroke (10-20% of all strokes)
- ♦ High blood pressure (hypertension)
- ♦ Vascular malformations (aneurysm, cavernous malformation, fistula)
- Amyloid angiopathy

Risk factors for stroke

- High blood pressure (hypertension)
- High blood sugar (diabetes mellitus) High cholesterol (hyperlipidemia)
- · Heart conditions (atrial fibrillation, heart failure)
- Tobacco/nicotine (smoking, vaping,
- chewing) History of previous stroke
- Age, ethnicity, sex, race, socioeconomic status

Other Topics

- Nutrition
- · Physical activity and falls prevention
- · Continuum of care options/follow-up
- after discharge Inpatient rehabilitation
- Outpatient rehabilitation
- Therapy at home
- · Adjustment and coping after stroke
- · Primary care follow-up

Abbreviations: AHA: American Heart Association: ASA: American Stroke Association: ADLs: activities of daily living; IADLs: instrumental activities of daily living

Sidebar 4: Considerations for Outpatient/Community-based **Rehabilitation Services**

- · Current functional status and endurance level · Family and caregiver support
- · Home assessment for safety
- Motivation and preferences Necessary equipment
- · Resources, availability, and eligibility
- Transportation

Recommendations can be accessed in the full guideline. Available at: https://www.healthguality.va.gov/.



VA/DoD CLINICAL PRACTICE GUIDELINES Module B: Outpatient/Community-Based Rehabilitation

Outpatient presents with impairments Continue or initiate mental after stroke health treatment including Yes psychotherapy and/or Does the patient have depression? No 16 Yes Is an interdisciplinary stroke rehabilitation team available? No 🗸

Consult PM&R

Assess the patient (see Sidebar 2) and

identify patient's rehabilitation goals

services (see Sidebar 4)

Continue treatment and reassess

periodically

13

15

18

25

medication (e.g., SSRI, SNRI) Refer to interdisciplinary stroke rehabilitation team

neurology, and specialty

care follow-up.

as needed

(see Appendix B in the full CPG) Consider optimal environment for outpatient/community-based rehabilitation

Educate patient/family on stroke (see Sidebar 3) Reach shared decision regarding rehabilitation program and treatment plan Continue secondary prevention (see Sidebar 1) 21 Consult appropriate rehabilitation services (see Sidebar 5a and 5b) Yes Has the patient met rehabilitation

treatment goals? No Initiate/continue rehabilitation intervention 26 Discharge patient from Yes Did the patient meet rehabilitation rehabilitation and treatment goals or reach plateau? arrange for primary care, No.

 Emotion and behavior health Family/caregiver support Pain Sexual function and intimacy Community resources Emotion and behavior Case management · Family/caregiver support (social work and/or Financial resources nursina) Risk for abuse/neglect (e.g., emotional, financial) exploitation, or physical)

Sidebar 5a: Resources for Management of Post-Stroke

Impairments/Needs*

Behavioral smoking cessation

Adjustment and coping

Cognition

Impairment/Need

Consultants/Referrals

Behavioral and mental

Dietetics

Neurology

Nursina

Occupational therapy

Ophthalmology

Optometry/visual

rehabilitation

 Spasticity (medical management) Bowel and bladder function Medication administration · Patient and family education Self-management skills, ADLs, IADLs Skin care Cognition Drivina

· Healthy eating and nutritional needs

Optimization of secondary stroke prevention

Medication management

 Durable medical equipment recommendations · Home safety Self-management skills, ADLs, IADLs Sexual function and intimacy Spasticity Strenath

Strabismus assessment and procedures

· Non-operative strabismus management

· Strabismus assessment and procedures

Visual field cut/blind spot/scotoma

Eve care

Eve care

Functional eve exam

Vision/vision perception

Primary care

Recreation therapy

Speech-language

Vocational rehabilitation

various factors (e.g., severity).

pathology

livina

Consultants/Referrals

Physical Medicine and

Rehabilitation

(e.g., physiatry)

Physical therapy

 Hypertension Diabetes mellitus Hyperlipidemia

Communication

Swallowing

Sidebar 5a: Resources for Management of Post-Stroke

Impairments/Needs* (cont.)

Medication administration

Spasticity (medical management)

Balance disorders and dizziness

Home safety

Pain

Motor/mobility problems

Sexual function and intimacy

Impairment/Need

Spasticity Strenath Self-management skills, ADLs, IADLs

Durable medical equipment recommendations

Exercise recommendations/aerobic reconditioning

Management of common stroke risk factors

Tobacco use

 Medication management Management of comorbidities

 Adaptive sports Community re-entry

 Functional cognition · Leisure/recreation participation

Self-management skills, ADLs, IADLs Cognition

· Self-management skills, ADLs, IADLs

Return to work/duty or school

*Some impairments/needs may have multiple consultants/referrals depending on

Abbreviations: ADLs: activities of daily living; IADLs: instrumental activities of daily

Pain (medical management) Prevention of post-stroke complications Rehabilitation management, oversight, and direction including assistance with return to work/duty or school Sexual function and intimacy