

UR Medicine Stroke & Cerebrovascular Center

Stroke Education

Intracerebral Hemorrhage



The Joint Commission American Heart Association American Stroke Association

STROKE CERTIFICATION

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Stroke Awareness * Hope * Recovery * Su Together to end stroke.	ıpport	

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Stroke Care Team

Welcome to the Comprehensive Stroke Center at UR Medicine's Strong Memorial Hospital

My Medical and Rehab Care Team:

- » Attending Physician
- » Resident Physician
- » Nurse Practitioner
- » Physician Assistant
- » Nurse
- » Patient Care Technician

- » Social Worker
- » Care Coordinator
- » Physical Therapist
- » Occupational Therapist
- » Speech Therapist
- » Students





Our medical, surgical, and rehabilitation team will work together to:

- → Evaluate
- \rightarrow Diagnose the type of stroke
- → Start treatment
- \rightarrow Provide therapy services
- \rightarrow Make a comprehensive discharge plan

My Stroke Sheet The type of stroke I had was:	My signs and symptoms were:		
My hemorrhagic stroke			
risk factors:	Clotting Disorders		
 High Blood Pressure Smoking 	Other stroke risk factors:		
Excessive alcohol Use Use	Previous Stroke or TIA		
 Illegal Drug Use Bleeding Disorders 	High Cholesterol Coroport Artony Discoso		
 Disorders Long-term Anticoagulation Use 	 Coronary Artery Disease Carotid Artery Disease 		
□ Blood Vessel Abnormalities	 Physical Inactivity 		
AVM	 Obesity/Overweight 		
Cerebral Aneurysm	□ Diabetes		
Family History of Hemorrhagic	Atrial Fibrillation		
Stroke	Sleep Apnea		
Seizures	Oral Contraceptives		
Head Trauma	Hormone Replacement Therapy		

My Goal Blood Pressure: _____

My Medications	What is it for?		

What is a Stroke?

Your brain cells need a constant supply of blood, oxygen, and nutrients to survive. A stroke occurs when a blood vessel gets blocked or bursts. This stops the blood, oxygen, and nutrients from going to the brain.

Common Stroke Types

Ischemic:

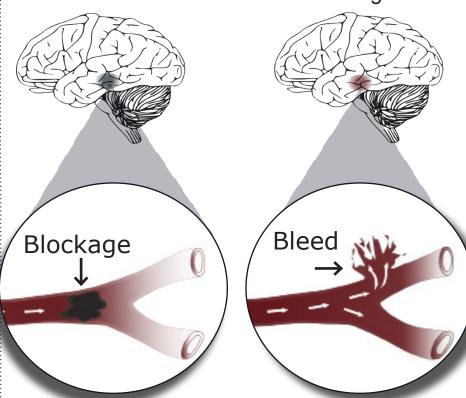
a blood vessel that supplies blood to the brain is blocked.

- Thrombotic or Embolic
- Transient Ischemic Attack (TIA)

Hemorrhagic:

a blood vessel in the brain breaks open and bleeds into or around the brain.

- Subarachnoid Hemorrhage
- Intracerebral Hemorrhage



Stroke Facts:

5th

Leading cause of death in the U.S.

#1

Cause of long-term disability in the U.S.

Every 40 seconds

Someone in the U.S. has a stroke.

2 Million

Brain cells die each minute.

25%

More likely to have another stroke if you've had one in the past.

80% Of strokes are preventable.

Hemorrhagic Stroke

Hemorrhagic strokes are caused by a weakened blood vessel that ruptures and bleeds into or around the brain.

Two Types of Hemorrhagic Strokes:

- 1. Intracerebral Hemorrhage
- 2. Subarachnoid Hemorrhage

13% of all stroke cases

► 40% of all stroke deaths



Intracerebral Hemorrhage

An intracerebral hemorrhage (ICH) is when a blood vessel in the brain breaks open and blood leaks into the brain tissue nearby. The pressure on the brain can harm brain cells and cause swelling in the brain tissue.

Intracerebral hemorrhage is an emergency and is associated with a high mortality rate. It is VERY important to get medical attention right away! 3/4 of hemorrhagic strokes are intracerebral hemorrhages

Signs and Symptoms

Remember to **BE-FAST**! Time is brain.

Balance	Eyes	Face	Arm	Speech	Time
Sudden loss of balance	Loss of vision, blurry or double vision	1 /	Weakness or numbness on one side of the body		Time to Call 911!

The Most Common Signs of Hemorrhagic Stroke:

- 1) Sudden, severe headache without cause
- 2) Sudden and severe nausea or vomiting
- 3) Sudden confusion, trouble speaking, or understanding
- 4) Sudden numbness or weakness on one side of the body
- 5) Sudden loss of vision or double vision
- 6) Sudden dizziness, trouble walking, loss of balance
- 7) Seizure



Stroke Don'ts

- Ø Don't drive yourself to the hospital. Instead, Call 9-1-1
- Ø **Don't** eat or drink anything
- Ø **Don't** wait to get treatment
- Ø **Don't** take aspirin or any medication

Risk Factors

Non-Modifiable Risk Factors:

Things I cannot change

- □ Family History
- Prior Stroke or TIA

□ Sex

□ Race

Clotting Disorder

Modifiable Risk Factors

Things I can change or treat

Hypertension, also known as high blood pressure, is the number one cause of stroke. It is the most important risk factor to control.

• High blood pressure causes 60% of all intracerebral hemorrhages.

Long-term Anticoagulation

Use can increase your risk of hemorrhagic stroke. Check with your doctor for guidance about this medication.

 It is important to know which drugs and foods have an effect on your medication. **Smoking** doubles your risk for ischemic stroke. It also increases the risk of aneurysm formation and hemorrhagic stroke.

- NYS Quitline: 1-866-697-8487
- Ask your nurse or doctor about nicotine replacement.

Excessive Alcohol and Illegal Drug Use have been associated with hemorrhagic strokes. If you drink, do so in moderation.

- Women: 1 drink per day
- Men: 1-2 drinks per day

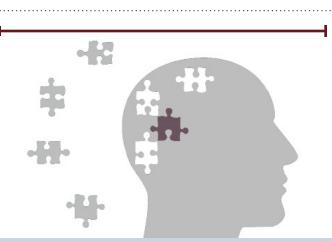
Conditions that increase risk of Intracerebral hemorrhage:

Tumor Seizures Infection Tramatic Brain Injury Bleeding or Bleeding Disorders Arteriovenous Malformation (AVM) Aneurysm

Changes with Stroke

Effects of a stroke can impact:

- \rightarrow Physical Health
- \rightarrow Mental Health
- \rightarrow Emotional Health
- → Behavioral Health



Stroke Vocabulary

Hemiparesis	Weakness on one side of the body	
Hemiplegia	No movement on one side of the body	
Dysphagia	Trouble swallowing	
Aphasia	Trouble speaking or understanding	
Dysarthria	Slurred speech	
One-sided neglect	Ignoring or forgetting your weak or paralyzed side	
Visual changes	Decreased area of vision or trouble with perception	
Emotions	Loss of emotional control and changes in mood	
Cognitive changes	Problems with memory, judgement, or problem- solving	
Behavior changes	Personality changes, improper language or actions	

Fatigue is the most common change after a stroke. It may last for months, but will get better.

Post-Stroke Depression



Post-stroke depression (PSD) affects more than 1/3 of stroke patients.

When can it happen?

PSD can occur in weeks, months, or even years after your stroke.

What is the cause?

A combination of genetics, social factors, and damage to your brain after a stroke can lead to depression.

What are the symptoms?

- » Persistent sad or anxious feelings; irritability
- » Trouble sleeping and fatigue; trouble staying focused
- » Appetite changes or digestive issues
- » Feeling hopeless, helpless, and/or worthless
- » Loss of interest in activities, hobbies, or being social
- » Suicidal thoughts

What are the treatment options?

Medication. Antidepressants can be prescribed to improve mood.

Mental Health Therapy. Medication can be combined with mental health therapy to improve outcomes.

What if it's left untreated?

Post-stroke depression can stop progress of recovery and rehabilitation, which can lower your quality of life.

Stroke Prevention

Medications

Medical and surgical treatment is based on the cause of the intracerebral hemorrhage.

Treatment goals:

- \rightarrow Stop the bleeding
- \rightarrow Control blood pressure
- \rightarrow Treatment of pain and nausea
- \rightarrow Decrease swelling in the brain

How do I manage my blood pressure?

- Medications are often needed in order to prevent another stroke. It is very important that you take the medications as directed and do not skip doses.
- Keep track of your blood pressure using a diary or notebook.
- Exercise: Be more physically active. Try taking the stairs or taking a walk every day.
- Healthy diet: eat a heart-healthy diet and lower your salt intake.

Questions? Ask your doctor or nurse for more information on medical or surgical treatment of ICH.





Anti-hypertensives

Anti-hypertensives are medications that lower your blood pressure and/or heart rate. There are many different kinds.

Anti-Seizure Medications

Anti-seizure medications are used to prevent seizures. It is important to take your medication exactly as prescribed. There are many risks if you suddently stop taking this medication.

 Do NOT stop taking this medication without talking to your healthcare provider.

Pain Medications

Pain medications may be used to treat headache or mild pain after your stroke. Do NOT take aspirin or NSAIDs for pain relief as these medications increase your risk of bleeding. **Common names:** amlodipine (Norvasc), carvedilol (Coreg), diltiazem (Cardizem), hydrochlorothiazide (Microzide), lisinopril (Zestril), losartan (Cozaar), and metoprolol (Lopressor) are just a few of the most frequently prescribed.

Common Names:

levetiracetam (Keppra)

Common Names:

acetaminophen (Tylenol)

Stroke Prevention

Lifestyle Modification



Healthy & Balanced Diet

Small changes can make a big difference.

- ↓ Reduce saturated fats
- ↓ Reduce sugar intake
- ↓ Reduce salt intake

Diets for Brain and Heart Health:

- The DASH (Dietary Approaches to Stop Hypertension) Diet
- Mediterranean Diet

American Heart Association Recipes:

recipes.heart.org

Meal assistance?

Check for Meals On Wheels or online food delivery. Healthy Eating Shopping List

Fruits & Vegetables: bananas, apples, oranges, strawberries, blueberries, sweet potatoes, spinach, broccoli, carrots, eggplant, kale

Dairy, Cheese, & eggs: low-fat or fatfree dairy products

Meat & Seafood:

skinless poultry and fish rich in omega 3 fatty acids (salmon, tuna, trout), beans

Bread, Pasta, & Cereal:

whole wheat pasta and breads, quinoa, couscous, oatmeal, brown rice, high-fiber cereal



Weight Loss & Physical Activity

Regular exercise strengthens the body and helps you lose weight. It can also lower your risk of heart disease, high cholesterol, diabetes, and stroke.

American Heart Association Recommendations:

30 minutes of exercise daily

 or 150 minutes of moderate-intensity exercise per week

2days of strength training per week

 Use resistance or weights



Patient and Family Resources

Social workers provide services both in the hospital and the community setting.

UR Medicine Social Work 585-275-2851 urmc.rochester.edu/social-work/ Monday-Friday 8am-5pm

Social work can help with:

- Respite care or caregiver relief
- Adult day care programs
- Transportation programs
- Community resources



for any new stroke symptoms!



American Stroke Association Resources:

American Stroke Association

strokeassociation.org

Support Group Registry

Support groups by ZIP Code strokeassociation.org/strokegroup 1-888-4-STROKE (888-478-7653)

Support Network

Online support community strokeassociation.org/ supportnetwork

Stroke Connection Magazine

strokeconnection.org

Warmline

Ask questions and get support 1-888-4-STROKE (888-478-7653)

Tips for Daily Living Library

strokeassociation.org/tips

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Finger Lakes 211 Lifeline

Finding Local Resources

Connecting people with community, social, health, and government services for help with housing, food, mental health, employment, and financial resources.

Contact Information:

211lifeline.org Dial 2-1-1 or 1-877-356-9211

> UR Medicine Outpatient Stroke Center

- Neurology: (585) 275-2530
- Neurosurgery: (585) 273-1900

Additional Resources:

Internet Stroke Center

strokecenter.org

National Institute of Health

stroke.nih.gov ninds.nih.gov

National Rehabilitation Information Center

Stroke rehabilitation and disability resources naric.com

Centers for Disease Control cdc.gov/stroke

Aphasia hope Foundation

Aphasia information and resources aphasiahope.org

Respite Care

eldercare.gov

Caregiver Action Network

http://caregiveraction.org

Family Caregiver Alliance

https://www.caregiver.org

Notes:		