UNC Health UNCMC Comprehensive Stroke Center Renee Potter Stroke Program Manager

HCAHPS and Press Ganey Stroke DRG codes reports

Press Ganey and HCAHPS Reports

- UNC uses Press Ganey
- Can design reports by month or quarter
- We pick the lowest performing 2-3 measures
- Press Ganey sorted by patient populations, Stroke DRG codes.
- We input the reports into tableau for the graphs
- Patient Satisfaction is reported quarterly at our Stroke Multidisciplinary Team meetings.

MS-DRG codes for Stroke

- 061: Acute ischemic stroke with use of thrombolytic agent and major complication code (MCC)
- **062**: Acute ischemic stroke with use of thrombolytic agent and complication code (CC)
- **063**: Acute ischemic stroke with use of thrombolytic agent without CC or MCC
- **064**: Intracranial hemorrhage or cerebral infarction with MCC
- 069: Transient cerebral ischemic attack, unspecified

Other codes that can be used depending on your stroke patient population

Other stroke-related ICD-10 codes: •G3289

Other specified degenerative disorders of nervous system, including brain stem stroke syndrome, cerebellar stroke syndrome, pure motor lacunar syndrome, and pure sensory lacunar syndrome

•16000

Nontraumatic subarachnoid hemorrhage from unspecified carotid siphon and bifurcation

•G450

Vertebro-basilar artery syndrome, including transient cerebral ischemic attack, middle cerebral artery syndrome, anterior cerebral artery syndrome, and posterior cerebral artery syndrome

Patient Engagement Project 2024

3 performance measures selected 2024

- Communication about medicines domain performance
- Staff describe medication side effects
- Tell you what new medications was for
- Stroke Unit and Neuro ICU developed the medication education cards in conjunction with the Pharmacy team.
- Cards are laminated and placed in every room on the unit.
- Physicians, Residents, Nurses, Pharmacy and the patient can access the cards and ask questions when needed.
- Data validated thru unit specific Press Ganey reports for Stroke DRG codes.
- Goal is 75% each quarter.

Stroke Unit Μ • . • _ . • \frown

Clopidogrel (Plavix)

Mec	dication	Educ	atio	on	Cards		Antibiotics such as (but not limited to): Cefezolin (Ancef) Cefepime (<u>Maxipime</u>) Vancomycin (<u>Vancocin</u>) Ceftriaxone (Rocephin) Piperacillin/Tazobactam (Zosyn)	Treats infections such as (but not limited to): surgical sites, bloodstream infections, osteomyelitis, pneumonia, urinary tract infections (UTI), meningitis	Skin rash, diarrhea, excess yeast production (mouth/vaginal area), nausea/vomiting, itching
	Blood Pressure Medication	15					Ampicillin/Sulbactam (Unasyn)		
Medication	Indication	Side Effects					Dexamethasone	Steroids	
Labetalol (Nermedyne)	High blood pressure, atrial fibrillation	Dizziness, sings of an allergic rea	iction, nausea				(Decadron) Methylprednisolone (Solu-Medrol)	Treatment of autoimmune disorders, myasthenia gravis, multiple sclerosis, adrenal insufficiency, swelling in the	Hyperglycemia (high blood sugar), general fatigue, nausea, restlessness, trouble sleeping
Hydralazine (<u>Apresoline</u>)	High blood pressure	Headache, diarrhea, vomiting					Prednisone	brain/body, allergic reactions	induces, reaction easy in output and pring
Amlodipine	High blood pressure, chronic angina	Peripheral edema, fatigue		Miscellaneous Medications			Muscle Relaxants		
(Norvasc)	(chest pain)	renprierareuerna, raugue	Medication Indication		Side Effects				
Lisinopril (Prinivil)	High blood pressure, heart failure with reduced ejection fraction, acute coronary	Persistent cough, angioedema, signs of kidney problems (decr	Desmopr (DDAV	Diabetes Insipidus, hemophilia A, v Willebrand disease, porturnal poly		confusion, we	eadache, trouble focusing, akness, seizures, muscle mps, restlessness, GI upset, vomiting	Treat muscle spasms	Drowsiness, dizziness, weakness, headache, low blood pressure
Losartan (Cozaar)	syndrome		Nimodij	pine	Prevents delayed cerebral ischemia/	Slow/abnorma	al heartbeat, dizziness, shortness of		
Metoprolol	Atrial fibrillation, acute coronary syndrome, heart failure with reduced ejection fraction,	Bradycardia, dizziness, fatigue	(Nimet	(9 9)	neurological deficits in ruptured aneurysms	breath, arm or leg swelling			
(Lopressor)	chronic chest pain, tachycardia					Dry nose or m	outh, constipation, decreased	Antiseizure	
Carvedilol (Coreg)	High blood pressure, atrial fibrillation, heart failure with reduced ejection fraction, chronic chest pain	Dizziness, fatigue, diarrhea, he	Amanta (Symme		Promotes wakefulness in traumatic brain injury, stroke, and other neurological injuries	appetite, naus sleeping, agita	ea, abnormal dreams, trouble tion	Treat seizures, anxiety/agitation, high	New or worse behavior/mood changes, headache, hallucinations, confusion, restlessness, drowsiness, dizziness, change in vison, memory loss/problems,
Clonidine (Catapress)	High blood pressure, ICU-acquired agitation	Dry mouth, rash (patch only), c headache, abdominal pain, cor	Pyridostig (Mestig		Treatment of Myasthenia gravis		in, diarrhea, drooling, nausea, ating, increased urinary frequency		respiratory depression, allergic reaction Drowsiness, suicidal ideations, changes in mood,
	Cholesterol Medications					Orthonyalah		-	hallucinations, allergic reaction
Atorvastatin (Lipitor) Pravastatin	Lowers bad cholesterol (LDL) and	Joint pain, diarrhea, nausea, ve	Olanzapine (Zyprexa)		 Management of agitation, mood disorders 	Orthostatic hypotension, dizziness, drowsiness, dry mouth, constipation, nausea, vomiting, headache, increased appetite		Treats seizures and epilepsy	Bradycardia, heart block, drowsiness, dizziness, nausea, double vision, chest pain, abnormal eye movements, allergic reaction Drowsiness, dizziness, confusion, swollen/sore gums, swollen/purple color of arms/legs (IV
(Pravachol)	triglycerides and raises good cholesterol (HDL), helps lower the risk of heart attack or		Quetiapine (Seroquel)			Fatigue, headache, dry mouth, constipation, nausea, vomiting, increased appetite			
Ezetimibe (Zetia)	stroke								
(read)	Anticoagulants/Blood Thinner/Ant	tiplatelets	1						formulations), tremor, unusual eye movements, abnormal heart rate
Heparin	Treat or prevent blood clots						Lamotrigine (Lamictal)	Treats seizures, bipolar disorder	Nausea, dizziness, tremor, rash, headache, fever, dry mouth, stuffy nose, sore throat, insomnia
Enoxaparin (Loxedox)	meat of prevent blood clots	Bleeding: vomiting blood, emesis that looks co ground, hematuria, black/red/tarry stools, ble					Topiramate (Topamax)	Treats seizures, headaches/migraines	Drowsiness, changes in cognition/memory impairment, weight loss, nausea, numbness in
Apixaban (Eliguis)		from gums/vagina, excessive bruising, allergic reaction							hands/feet, headache, double vision
Rivaroxaban (Xarelto)	Treat or prevent blood clots, atrial fibrillation					Valproic Acid/Divalproex Sodium (Depakote)	Treats seizures and mood disorders	Dizziness, drowsiness, diarrhea, nausea, hair loss, tinnitus, double vision, tremor	
Aspirin							Gabapentin (Neurontin)	Treats neuropathic pain and seizures	Drowsiness, dizziness, fatigue, double vision, tremors, unusual eye movements
Ticagrelor (Brilinta)	Lower the risk of heart attack or stroke, prevent thrombosis of cardiac bypass grafts and vascular, cardiac, or brain stents	Minor bleeding, stomach upset, shortness of breath	GI ulcers,						
	and vascular, cardiac, or brain stents								

Antibiotics

Side Effects

Indication

Medication

Antibiotics such as (but not

Neuro ICU Medication Education Cards

	Miscellaneous Medication	s		
Medication	Indication	Side Effects		
Desmopressin (DDAVP)	Diabetes Insipidus, hemophilia A, von Willebrand disease, nocturnal polyuria, antiplatelet reversal	Low sodium, headache, trouble focusing, confusion, weakness, seizures, muscle weakness/cramps, restlessness, GI upset, vomit		
Nimodipine (Nimotop)	Prevents delayed cerebral ischemia/ neurological deficits in ruptured aneurysms	Slow/abnormal heartbeat, dizziness, shortness of breath, arm or leg swelling		
Amantadine (Symmetrel)	Promotes wakefulness in traumatic brain injury, stroke, and other neurological injuries	Dry nose or mouth, constipation, decreased appetite, nausea, abnormal dreams, trouble sleeping, agitation		
	Fever Reduction	and the second		
Acetaminophen (Tylenol)	Fever reduction, mild pain	Dark urine, tiredness, decreased appetite, GI up light colored stools, vomiting, yellow skin/eyes, difficulty urinating, severe skin reaction (Steven Johnsons/toxic epidermal necrolysis		
	Anticoagulants/Blood Thinner/Ant	tiplatelets		
Heparin				
Argatroban	Treat or prevent blood clots	Bleeding: vomiting blood, emesis that looks coff ground, hematuria, black/red/tarry stools, bleed		
Enoxaparin	These of prevent blood closs			
(Lovenox)				
Apixaban		from gums/vagina, excessive bruising, allergic		
(Eliquis)	Treat or prevent blood clots,	reaction		
Rivaroxaban	atrial fibrillation			
(Xarelto)				
Aspirin	Lower the risk of heart attack or stroke,	Minor bleeding, stomach upset, Gi ulcers, shortness of breath		
Ticagrelor	prevent thrombosis of cardiac bypass grafts			
(Brilinta)	and vascular, cardiac, or brain stents			
Clopidogrel (Plavix)				
(FIBVIX)	Cholesterol Medications			
Atorvastatin	the second state of the second state of the			
(Lipitor)	Lowers bad cholesterol (LDL) and triglycerides and raises good cholesterol (HDL), helps	s Joint pain, diarrhea, nausea, vomiting		
Pravastatin	lower the risk of heart attack or stroke			
(Pravachol)				
Dexamethasone	Steroids	and the second se		
(Decadron)	Treatment of autoimmune disorders,	Hyperglycemia (high blood sugar), general fatigu nausea, restlessness, trouble sleeping		
Methylprednisolone	myasthenia gravis, multiple sclerosis, adrenal			
(Solu-Medrol)	insufficiency, swelling in the brain/body, allergic reactions	nausea, resuessness, trouble sleeping		
Prednisone	anergic reactions			
Carl State State of the state o	Sedation			
Medication	Indication	Side Effects		
Propofol	Sedation, anesthesia for surgery, status	Bradycardia, hypotension, severe stomach pain, upset, vomiting, headache, dizziness, changes ir		
(Diprivan)	epilepticus	vision difficulty breathing, trouble with		
		coordination, allergic reaction		
Dexmedetomidine (Precedex)	Sedation, management of agitation	Bradycardia, hypotension, heart block, sweating/fever		
Quetiapine		Fatigue, headache, dry mouth, constipation,		
	Management of agitation, mood disorders	nausea, vomiting, increased appetite		

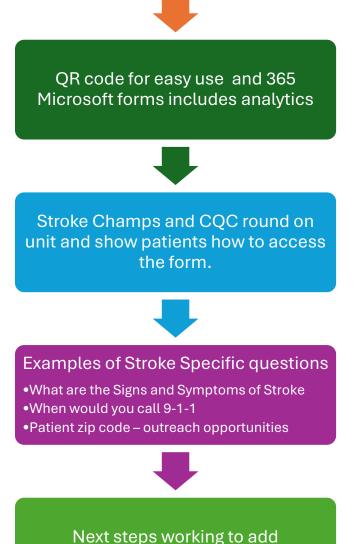
Indication It seizures, anxiety/agitation, high intracranial pressure, sedation Treats seizures and epilepsy reats seizures, bipolar disorder	hallucinations, dizziness, char respiratory de Drowsiness, su hallucinations, Bradycardia, h nausea, doubl movements, a Drowsiness, di swollen/purple	e vision, chest pain, ab llergic reaction	is, drowsiness, iss/problems, ion es in mood, , dizziness,		
intracranial pressure, sedation	hallucinations, dizziness, char respiratory de Drowsiness, su hallucinations, Bradycardia, h nausea, doubl movements, a Drowsiness, di swollen/purple	confusion, restlessnes age in vison, memory lo pression, allergic reacti icidal ideations, chang , allergic reaction eart block, drowsiness, e vision, chest pain, ab llergic reaction	is, drowsiness, iss/problems, ion es in mood, , dizziness,		
	Drowsiness, su hallucinations, Bradycardia, h nausea, doubl movements, a Drowsiness, di swollen/purple	icidal ideations, chang , allergic reaction eart block, drowsiness, e vision, chest pain, ab llergic reaction	es in mood, , dizziness,		
	hallucinations, Bradycardia, h nausea, doubl movements, a Drowsiness, di swollen/purple	allergic reaction eart block, drowsiness, e vision, chest pain, ab llergic reaction	, dizziness,		
	nausea, doubl movements, a Drowsiness, di swollen/purple	e vision, chest pain, ab llergic reaction			
reats selzures, bipolar disorder	swollen/purple	zziness, confusion, swo	Bradycardia, heart block, drowsiness, dizziness, nausea, double vision, chest pain, abnormal eye movements, allergic reaction		
reats seizures, bipolar disorder		ss, dizziness, confusion, swollen/sore gums, surple color of arms/legs (IV formulations), nusual eye movements, abnormal heart rate			
	Nausea, d' mouth, st	toosee ook hoer	Bacha favor das B		
	Drowsine	Medication	Ir		
ats seizures, headaches/migraines	impairme hands/fee	Clevidipine (Cleviprex)	Moderate to sev		
eats seizures and mood disorders	Dizziness, tinnitus, d	Nicardipine	Moderate to sev		
ats neuropathic pain and seizures	Drowsine: unusual e	(Cardene)	inoderate to sev		
Antibiotics		Labetalol	High blood pre		
		(Normodyne)			
limited to): Cefazolin (Ancef) Cefepime (Maxipime) Vancomycin (Vancocin) Ceftriaxone (Rocephin) Treats infections such as (but not limited to): surgical sites, bloodstream infections, osteomyelitis, pneumonia, urinary tract infections (UTI), meningitis		Hydralazine (Apresoline)	High b		
	Skin rash, {mouth/v	Amlodipine (Norvasc)	High blood pr (c		
infections (UTI), meningitis		Lisinopril (Prinivil)	High blood pres		
Muscle Relaxants	-		reduced ejection		
		(Cozaar)	3		
		Metoprolol (Lopressor)	Atrial fibrillation, a heart failure with		
Treat muscle spasms	Drowsine: pressure	Carvedilol	chronic che High blood pressu failure with reduce		
			c		
		(Catapress)	High blood pressu		
Medication Reversa	1	Transferra dire			
rse warfarin; supplement vitamin K	Flushing, skin, exce	Norepinephrine (Levophed)	Moderate to		
rse warfarin, apixaban, rivaroxaban	Blood clot	Phenylephrine (Neo-Synephrine)	Moderate to		
verse apixaban and rivaroxaban	Blood clot	Vasopressin	Moderate to seve		
Reverse the effects of opioids	Severe he	(Vasostrict)	in the second		
	seizures, shakiness				
rse the effects of benzodiazepines		Dopamine	Symptomatic bra		
	Medication Reversa rse warfarin; supplement vitamin K rse warfarin, apixaban, rivaroxaban verse apixaban and rivaroxaban	Medication Reversal rse warfarin; supplement vitamin K Flushing, i rse warfarin, apixaban, rivaroxaban Blood clot verse apixaban and rivaroxaban Blood clot Reverse the effects of opioids Severe he seizures, 5	Treat muscle spasms Image: Coloradia (Coloradia) Drowsine: pressure Image: Coloradia (Coloradia) Medication Reversal rse warfarin; supplement vitamin K Flushing, i skin, exce Se warfarin; apixaban, rivaroxaban Blood clot Phenylephrine (Neo-Synephrine) Phenylephrine (Neo-Synephrine) verse apixaban and rivaroxaban Blood clot Reverse the effects of opiolds Severe he seizures, 1		

	zziness, confusion, sw e color of arms/legs (IV				
unusu	al eye movements, ab				
d'		Blood Pressure Medication	15		
e	Medication	Indication	Side Effects		
e ee	Clevidipine (Cleviprex)	Moderate to severe high blood pressure	Inability to urinate, blood in urine, weight gain, abnormal heart rate, dizziness, confusion, vision changes, headache, GI upset, allergic reaction		
d	Nicardipine (Cardene)	Moderate to severe high blood pressure	Dizziness, fainting, abnormal heart rate, chest pain (new or worsening), SOB, swelling in extremities		
e	Labetalol (Normodyne)	High blood pressure, atrial fibrillation	Dizziness, sings of an allergic reaction, nausea		
	Hydralazine (Apresoline)	High blood pressure	Headache, diarrhea, vomiting		
ı, Vi	Amlodipine (Norvasc)	High blood pressure, chronic angina (chest pain)	Peripheral edema, fatigue		
	Lisinopril (Prinivil)	High blood pressure, heart failure with reduced ejection fraction, acute coronary	Persistent cough, angioedema/swelling, dizziness; signs of kidney problems (decreased or dark urine)		
	Losartan (Cozaar)	syndrome			
	Metoprolol (Lopressor)	Atrial fibrillation, acute coronary syndrome, heart failure with reduced ejection fraction, chronic chest pain, tachycardia	Bradycardia, dizziness, fatigue		
Bi	Carvedilol (Coreg)	High blood pressure, atrial fibrillation, heart failure with reduced ejection fraction, chronic chest pain	Dizziness, fatigue, diarrhea, headache		
	Clonidine (Catapress)	High blood pressure, ICU-acquired agitation	Dry mouth, rash (patch only), dizziness, drowsiness headache, abdominal pain, constipation		
		Vasopressors			
e	Norepinephrine (Levophed) Phenylephrine	Moderate to severe hypotension	Headache, dizziness, fainting, change in vision, abnormal heart rate, anxlety, numbness/tingling, SOB, weight gain to arms and legs, allergic reaction		
	(Neo-Synephrine)	The second second second second			
e	Vasopressin (Vasostrict)	Moderate to severe hypotension, diabetes insipidus	Unexplained bruising or bleeding, severe stomach pain, chest pain/pressure, abnormal heartrate, SOB, weight gain, swelling in extremities, inability to urinate, change in skin color (black/purple), skin sores, allergic reaction.		
1	A DECEMBER OF THE PARTY	Inotropes			
is Wi ijp	Dopamine (Intropin)	Symptomatic bradycardia (low heart rate), moderate to severe hypotension, inotropic support (weak heart)	Headache, abnormal or fast heartrate, SOB, dizziness, fainting, chest pain/pressure, cool/pale extremities, change in skin color (black/purple), GI upset, vomiting, change in vision, allergic reaction		
	Dobutamine (Dobutrex)	Heart failure, inotropic support (weak heart)	Headache, abnormal or fast heartrate, fever, pain/irritation at IV site, allergic reaction		

Patient Engagement Project 2025

Developing questionnaire for stroke patients and caregivers

Unit Stroke Champs & **Carolina Quality** Coordinator Project



questionnaire to UNC MyChart



STROKE SURVIVOR & CAREGIVER EVENT APRIL 12, 2025

We are pleased to announce our **5th Annual Stroke Survivor and Caregiver** event. This event connects Stroke Survivors and Caregivers in our local region. Please register for this **free event** using the links or QR codes included in this flyer. Presentation will include life after stroke, stroke research and health and wellness. Breakfast, lunch and snacks will be provided for registered attendees. Event location included with registration. This event is supported by UNC Stroke Patient Advisory Council, UNC Center of Nursing Excellence, UNC Comprehensive Stroke Center and regional vendors.



If you have any questions, please reach out to Sherene Bitar



Stroke Survivors, Caregivers, and Volunteers.

Look for the **Start Now** button when registering



Other links:

Vendor Registration



General Donations



- Free to any stroke survivor or caregiver.
 - Event will be in Morrisville North Carolina
 - Address provided with registration.
 - Please distribute

UNCMC Core Stroke Team







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