**Jane Doe** 

Chronology



Date	Location	Chart Documentation	<b>Review</b> Note/Reference
08/30/02 11:00 AM	EMERGENCY DEPARTMENT / Dr. Scarlet, Bates No. 1	Patient admitted to the ER at City Hospital with expressive aphasia & right facial droop. In no acute distress.	It is important to do the CT scan of the brain immediately on patients with suspected stroke. It is important to know the cause of the stroke to administer the
		Chief complaint: slurred speech & difficulty finding words.	proper treatment.
		-	There are 2 types of stroke:
		Temp 37 P 60 R 16 BP 178/80 Allergies: none known Past history: HTN (hypertension), treated	1. Ischemic which means a blockage. This is seen in people with coronary artery disease (CAD). This means that there are
		with Lopressor	fatty deposits in the arteries and blood
		Coronary artery disease (CAD), treated with Lipitor for high cholesterol	products form on the fat deposits, break off and lodge in the vessels of the brain
		& Ecotrin daily. Abdominal hysterectomy	causing obstruction. This is treated with fibrinolytic therapy (thin the blood to provent more electe). Medications are
		Physical exam: all within normal limits except the right facial droop with aphasia.	prevent more clots). Medications are given to accomplish this.
		IV is started	2. The other major cause of strokes is hemorrhage to the brain that can be caused
		EKG is done (unremarkable) Blood sugar is checked (ok)	by an aneurysm, a weakening of a vessel. This can break and cause bleeding and
		Neurology is called.	hemorrhage. Surgery would be required to correct this.
		CT scan of the brain is done.	Reference:
		Labs are drawn including hematology & chemistry	Ref 1 American Heart Association / Acute
		Transfer under the care of Dr. Mustard.	Coronary Syndromes & Stroke 1994
08/30/02 11:30 AM	RADIOLOGY / CT scan of the brain	No acute abnormality.	CT showed no sign of hemorrhagic stroke or blockage.
08/30/02 12:00 PM	PROGRESS NOTES / Dr. Mustard	68 year old white female admitted with expressive aphasia with right facial droop. Patient in no acute distress. History of HTN, CAD & a hysterectomy. On treatment for HTN & CAD. Also Ecotrin daily.	Ecotrin & Plavix are blood thinners to prevent the formation of blood clots. The patient has been taking Ecotrin @ home. Labs were drawn showing normal platelets with a high MVP & normal Hgb & Hct.
		Physical exam: unremarkable the right facial droop with aphasia.	No coagulation (PT, PTT, INR) studies are ordered.
		CT scan revealed no acute abnormality.	Starting anticoagulant therapy without a baseline coagulation study. This high level
		Observe patient & start Ecotrin & Plavix.	indicates a need for more platelets, Ecotrin & Plavix have been started without basic coagulation studies, PT, PTT & INR.
		Plan in doctor's orders.	Reference:
			test
08/30/02	NURSING ASSESSMENT	Admitted to room 212 A telemetry. Chief	test
12:00 PM	NORDERO A BOLLOUILLA	complaint: slurred speech, difficulty finding words. History of: HTN, CAD & abdominal	
		hysterectomy.	
08/30/02 12:00 PM	VITAL SIGNS	T 36.6 P 56 R 16 BP 178/96.	
08/30/02 12:00 PM	LABS/ Hematology	platelets 174 (ref 140-450) ok MPV (mean platelet volume) 11.4 (ref 7.4-	Platelets are ok Low platelets count interferes with the



Date	Location	Chart Documentation	Review Note/Reference
		10.4) high	clotting mechanism, increasing the chance
		Hgb 14.0 (ref 12-16) ok	to bleed. With Ecotrin & Plavix is a concern for bleeding.
		Hct 41.6 (ref 37-47) ok	MPV high When this value is High it measures the amount of large immature platelets are present. The normal bone marrow releases immature platelets to attempt to maintain a normal platelet count. The only medication that the patient was on the causes inhibition of platelets was the Ecotrin she was taking at home.
			Hgb & Hct show no signs of anemia.
08/30/02 12:15 PM	PHYSICIAN'S ORDERS / Dr. Mustard	Diagnoses: CVA (cerebral vascular accident) Condition: stable	
		Medications: Lopressor 250 mg daily Lipitor 20mg daily	
		Lab work: CBC with diff, BMP, fasting lipid panel, urinalysis in the AM. Guaiac stool testing Chest x-ray Ultrasound of the carotids Consult Dr. Plum (neurology)	
		Plavix 75mg every day Ecotrin 325mg every day	
		Soft diet IV keep open rate All other orders standard to the patients condition.	
08/30/02 02:00 PM	VITAL SIGNS	T 36.6 P 56 R 16 BP 178/97	
08/30/02 02:00 PM	NEUROLOGICAL SCORE	Neurological score: 15	Neurological check is the Glasgow Coma Score. The Glasgow Coma Score is used to quantify the neurological changes following stroke and allows a uniform description of the patients condition. The best possible score is 15, the worst possible score is 3. A Glasgow Coma Score of 8 or less is consistent with the definition of coma.
			This is a good assessment tool to monitor the patients condition.
			Reference:
			Ref 2 The Internet Stroke Center / American Stroke Association / Glasgow coma score / 1974
08/30/02 04:00 PM	VITAL SIGNS	T 37 P 62 R 18 BP 167/96	

Date	Location	Chart Documentation	<b>Review</b> Note/Reference
08/30/02 04:00 PM	NEUROLOGICAL SCORE	Neurological score: 15	Neurological score: good.
08/30/02 05:00 PM	MEDICATION SHEET	Aspirin (Ecotrin) 325mg & Plavix 75mg started.	
08/30/02 06:31 PM	PROGRESS NOTES / Dr. Peacock / Primary care physician	68 yr. old white female, previous hx of HTN for 30 yrs., CAD & abdominal hysterectomy. Is being treated with Lopressor & Lipitor for high cholesterol. Presented with expressive aphasia & mild facial droop. Family history of strokes, HTN & heart attacks. The patient is awake, oriented & in no distress. Impression: TIA (Transient Ischemic Attack) Neurological checks, continue Ecotrin & Plavix & check the labs.	A transient ischemic attack (TIA) is a transient stroke that lasts only a few minutes. It occurs when the blood supply to part of the brain is briefly interrupted. TIA symptoms, which usually occur suddenly, are similar to those of stroke but do not last as long. Most symptoms of a TIA disappear within an hour, although they may persist for up to 24 hours. Symptoms can include: numbness or weakness in the face, arm, or leg, especially on one side of the body. Because there is no way to tell whether symptoms are from a TIA or an acute stroke, patients should assume that all stroke-like symptoms signal an emergency and should not wait to see if they go away. A prompt evaluation (within 60 minutes) is
			necessary to identify the cause of the TIA and determine appropriate therapy. Depending on a patient's medical history and the results of a medical examination, the doctor may recommend drug therapy or surgery to reduce the risk of stroke in people who have had a TIA. The use of antiplatelet agents, particularly aspirin, is a standard treatment for patients at risk for stroke.
			TIA's are often warning signs that a person is at risk for a more serious and debilitating stroke.
08/30/02 11:55 PM	SUMMARY of Nurses Notes	Patient oriented VS stable Chest clear Good urine output Appetite fair Good oral fluid intake IV keep open rate Abdomen soft, good bowel sounds Skin warm & dry Telemetry-normal sinus rhythm	
08/31/02 12:00 AM	NURSES NOTES	Patient stable. No change.	
08/31/02 12:00 AM	NEUROLOGICAL SCORE	Neurological score:15	
08/31/02 04:34 AM	LABS / Lipid panel	Cholesterol 206 high (ref. desirable less than 200; the lower the better) HDL "good" 39.3 low (ref. desirable	High cholesterol level
		greater than 40; the higher the better) Cholesterol/HDL ratio 5.2 (high risk >5.0)	
		LDL "bad" 112 ok (ref. desirable less than 130; the lower the better)	



08/31/02 04:34 AM 08/31/02 04:54 AM	LABS / Chemistry LABS / Hematology PROGRESS NOTES / Dr.	<ul> <li>VLDL 55 high (ref. 0-40) (should be low)</li> <li>Triglycerides 275 high (ref. desirable less than 130; the lower the better)</li> <li>Within normal limits</li> <li>Platelet count 138 (ref 140-450) low MPV 11.8 (ref 7.4-10.4) high</li> <li>Hgb 13.5 (ref 12-16) ok Hct 40.4 (ref 37-47) ok</li> </ul>	
04:34 AM 08/31/02	LABS / Hematology	<ul> <li>than 130; the lower the better)</li> <li>Within normal limits</li> <li>Platelet count 138 (ref 140-450) low</li> <li>MPV 11.8 (ref 7.4-10.4) high</li> <li>Hgb 13.5 (ref 12-16) ok</li> </ul>	
04:34 AM 08/31/02	LABS / Hematology	Platelet count 138 (ref 140-450) low MPV 11.8 (ref 7.4-10.4) high Hgb 13.5 (ref 12-16) ok	
		MPV 11.8 (ref 7.4-10.4) high Hgb 13.5 (ref 12-16) ok	
	PROGRESS NOTES / Dr.	e (	
	PROGRESS NOTES / Dr.	1101 + 0.4 (101 - 57 + 47)  OK	
08/31/02 08:00 AM	Peacock	Patient asymptomatic, need to check ultrasound & Neuro consult. OK to give Ecotrin & Plavix to anti- coagulate.	
08/31/02 08:00 AM	NEUROLOGICAL SCORE	Neurological score: 15	
08/31/02 08:00 AM	VITAL SIGNS	T 36 P 54 R 20 BP 164/87	
08/31/02 08:45 AM	RADIOLOGY/ Ultrasound of Carotids	Plaque in the left internal carotid artery which is not significantly narrowing the lumen of the vessel. The exam was otherwise unremarkable.	The carotid arteries are on each side of the neck. The carotid arteries deliver oxygen- rich blood from the heart to the head and brain.
			Blockage of the internal carotid artery can reduce blood supply to the brain, causing a stroke. There was some narrowing of the left carotid artery but the rest of the study was unremarkable, no blockage was seen.
08/31/02 10:00 AM	MEDICATION SHEET	Ecotrin & Plavix given x1 daily	
08/31/02 10:20 AM	RADIOLOGY/ Chest x-ray	Normal findings.	
08/31/02 11:00 AM	PHYSICIAN'S ORDERS / Dr. Peacock	CBC with diff in am BMP in am Increase Lipitor to 30mg every day Discontinue IV	
08/31/02 11:00 AM	PROGRESS NOTES / Dr. Peacock	The patient has improved. Eating well, CBC & chemistries are fine. Lipid panel high, Lipitor increased, Ultrasound unremarkable.	
08/31/02	CONSULTATION / Dr. Plum /	1. CT scan unremarkable	The CBC was not in normal limits.
01:47 PM	neurologist	2. CBC with diff within normal limits.	The CBC this AM had low platelets. MPV was high.
		3. Suggested to keep the patient's blood pressure under control & to stay on Ecotrin & Plavix.	Platelet count 138L (low), a low platelet count interferes with the clotting mechanism, increasing the chance to bleed.
08/31/02 04:00 PM	VITAL SIGNS	T 93.5 P 57 R 20 BP 160-/82	
08/31/02 05:45 PM	LABS / Urinalysis	Normal findings	



Date	Location	Chart Documentation	<b>Review</b> Note/Reference
08/31/02 11:55 PM	SUMMARY of NURSES NOTES	Doing well Vital signs stable Good oral intake Diet good Good urine output IV d/c Abdomen soft, good bowel sounds Skin warm & dry Telemetry-normal sinus rhythm	
09/01/02 12:00 AM	NEUROLOGICAL SCORE	Neurological score: 15	
09/01/02 12:00 AM	VITAL SIGNS	T 36 P 57 R 20 BP 167/86	
09/01/02 02:00 AM	NURSES NOTES	No slurred speech noted, strength equal & strong, no distress, asleep, but arousable, denies any slurring of speech, pain or discomfort.	
09/01/02 05:25 AM	LABS / Hematology	platelets 136 (ref 140-450) low MPV 12.0 (ref 7.4-10.4) High	
		Hgb 14.1 (ref 12-16) ok Hct 42.3 (ref 37-47) ok	
09/01/02 08:00 AM	NEUROLOGICAL SCORE	Neurological score: 15	
09/01/02 08:00 AM	VITAL SIGNS	T 36.5 P 52 R 20 BP 145/91	
09/01/02 09:55 AM	NURSES NOTES	Dr. Peacock in, Patient had another episode of expressive aphasia. Dr. ordered CT of the brain.	CT to help establish the reason for another episode of expressive aphasia.
09/01/02 10:00 AM	PROGRESS NOTES / Dr. Peacock	Patient observed by the nurses to have another episode of aphasia. CT & Ultrasound within normal limits. Repeat CT scan of the brain. BP 145/90 now at baseline. Impression: TIA. Re-consult with neurology, assess the need for full anti-coagulation.	
09/01/02 10:00 AM	MEDICATION SHEET	Ecotrin & Plavix given x1 daily	
09/01/02 10:10 AM	PHYSICIAN'S ORDERS / Dr. Peacock	CT scan of brain	
09/01/02 12:00 PM	RADIOLOGY / CT scan of the brain	CT scan & noted at the left temporal there was encephalomalacia (softening of the brain due to deficient blood supply).	A stroke.
09/01/02 03:00 PM	CONSULTATION / Dr. Plum	Went to see the patient because of the recurrent episode of dysphasia. Reviewed the CT scan & noted at the left temporal there was encephalomalacia (softening of the brain due to deficient blood supply). He recommended since the patient has failed on antiplatelets (Ecotrin & Plavix) suggest that she be on anticoagulants (heparin).	
09/01/02	PHYSICIAN'S ORDERS / Dr.	PTT, PT INR stat	Heparin is an anticoagulant, it does not



Date	Location	Chart Documentation	<b>Review</b> Note/Reference
03:35 PM	Mustard	Heparin 6,000 units IV x1 stat Then 1,000 units every hour IV Check APTT in 6 hour, call resident if PTT is <50 or >75 BMP CBC with diff in am.	<ul> <li>dissolve blood clots but forestalls their enlargement &amp; prevent new clots from forming.</li> <li>This order suggested range for therapeutic therapy is 50-75 any value over or under will be called to the nursing units as a critical value. The high values states clotting is taking to long, increasing the chance of a bleeding. The low value states the clotting is happening to quickly which would increase the chance of increasing blood clots.</li> <li>PTT is a very important value to monitor during heparin therapy.</li> <li>PTT should be drawn: Before dosage begins 6 hours post initiation of therapy 6 hours post dosage adjustment 2x day when on maintenance dosage</li> <li>Reference:</li> <li>Ref 3 Standard guidelines when administering Heparin</li> </ul>
09/01/02 03:40 PM	PROGRESS NOTES / Dr. Mustard	Recurrent TIA Commence Heparin per neurology. Continue with Ecotrin & Plavix.	Starting Heparin & continuing Ecotrin & Plavix. Why continue Ecotrin & Plavix? Both of these medications are platelet inhibitors. Platelet inhibitors prevent clotting and increasing the inability to clot takes away the main defense in heparinized patients have to prevent hemorrhage. Ecotrin is a non-steroidal anti- inflammatory medication & should be used with caution when receiving thrombolytic therapy. The literature states the risk of hemorrhage with thrombolytic therapy.
09/01/02 04:00 PM	NURSES NOTES	Patient's condition awake, pleasant & cooperative.	
09/01/02 04:00 PM	VITAL SIGNS	T 36.5 P 56 R 20 BP 134/69	
09/01/02 04:00 PM	NEUROLOGICAL SCORE	Neurological score: 15	
09/01/02 04:00 PM	MEDICATION SHEET	Heparin 6000 units IV x1 stat	Heparin is started without knowledge of baseline PTT. The patient has been on Ecotrin & Plavix.
09/01/02 04:00 PM	LABS / Coagulation	PTT, INR, PT drawn stat	
09/01/02 05:00 PM	MEDICATION SHEET	Heparin 1000 units IV every hour.	
09/01/02 05:21 PM	LABS / Coagulation	PTT >100 (coag <50->75) critical	They gave 6500 units of Heparin & before knew the PTT. Heparin is decreased.
09/01/02	PHYSICIAN'S ORDERS /	Hold Heparin gtt for 1 hour, restart at 900	PTT @ 12mn



Date	Location	Chart Documentation	<b>Review</b> Note/Reference
06:00 PM	House officer	units every hour. PTT in 6 hours	
09/01/02 06:01 PM	MEDICATION SHEET	Held Heparin for 1 hour, then decreased to 900 units/ every hour.	
09/01/02 07:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/01/02 08:00 PM	NURSES NOTES	Patient comfortable, no change in her condition.	
09/01/02 08:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/01/02 09:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/01/02 10:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/01/02 11:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/02/02 12:00 AM	NEUROLOGICAL SCORE	Neurological score: 15	
09/02/02 12:00 AM	SUMMARY NURSES NOTES	Patient's condition unchanged. Vital signs stable Chest clear Good urine output IV heparin infusing Abdomen soft, good bowel sounds Skin warm & dry Telemetry-normal sinus rhythm	
		No signs of TIA's	
09/02/02 12:00 AM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/02/02 01:00 AM	LABS / Coagulation	PTT 80 (coag <50->75) critical	Heparin is decreased
09/02/02 01:10 AM	PHYSICIAN'S ORDERS / House officer	Hold Heparin for I hour, restart at 800 units every hour. PTT in 6 hours.	
09/02/02 02:00 AM	MEDICATION SHEET	Heparin 800 units IV every hour	
09/02/02 03:00 AM	MEDICATION SHEET	Heparin 800 units IV every hour	
09/02/02 04:00 AM	MEDICATION SHEET	Heparin 800 units IV every hour	
09/02/02 04:00 AM	NURSES NOTES	Patient stable. Slept throughout the night.	
09/02/02 04:55 AM	LABS / Hematology	Platelet count 146 (ref 140-450) ok MPV 12.2 (ref 7.4-10.4) higher	MPV higher
		Hgb 14.1 (ref 12-16) ok Hct 41.1 (ref 37-47) ok	
09/02/02 05:00 AM	MEDICATION SHEET	Heparin 800 units IV every hour	
09/02/02 06:00 AM	MEDICATION SHEET	Heparin 800 units IV every hour	
09/02/02 07:00 AM	MEDICATION SHEET	Heparin 800 units IV every hour	

Date	Location	Chart Documentation	<b>Review</b> Note/Reference
09/02/02 07:00 AM	LABS / Coagulation	PTT 70 (coag <50->75) ok	Heparin is continued @ 800 units
09/02/02 07:10 AM	PHYSICIAN'S ORDERS / Dr. Mustard	PTT in 6 hours	PTT @ 13:00
09/02/02 08:00 AM	MEDICATION SHEET	Heparin 800 units IV every hour	
09/02/02 08:00 AM	NEUROLOGICAL SCORE	Neurological score: 15	
09/02/02 08:00 AM	VITAL SIGNS	T 37.2 P 60 R 16 BP 150/70	
09/02/02 09:00 AM	MEDICATION SHEET	Heparin 800 units IV every hour	
09/02/02 10:00 AM	MEDICATION SHEET	Ecotrin & Plavix given x1 daily.	
09/02/02 10:00 AM	RADIOLOGY / CT scan of the brain	No hemorrhage Encephalomalacia (softening of the brain due to lack of blood supply) in the left temporal lobe.	Lack of blood supply indicating another stroke.
09/02/02 10:00 AM	MEDICATION SHEET	Heparin 800 units IV every hour	
09/02/02 10:10 AM	NURSES NOTES	Patient slurring speech, reported to Dr. Peacock	
09/02/02 10:15 AM	PROGRESS NOTES / Dr. Peacock	Recent events noted. Severe expressive dysphagia. CT scan showed no hemorrhage. Continue heparin.	
09/02/02 10:30 AM	PHYSICIAN'S ORDERS / Dr. Peacock	Speech Therapy evaluation.	
		Continue Heparin.	
09/02/02 11:00 AM	MEDICATION SHEET	Heparin 800 units IV every hour	
09/02/02 12:00 PM	MEDICATION SHEET	Heparin 800 units IV every hour	
09/02/02 12:00 PM	VITAL SIGNS	T 36 P 64 R 16 BP 94/77	BP dropped
09/02/02 12:15 PM	PHYSICIAN'S ORDERS / Dr. Mustard	Start IV normal saline 100 cc/hr. Keep BP at 140-150. Notify house officer if BP drops.	
09/02/02 12:20 PM	NURSES NOTES	IV restarted, normal saline 100 cc/hr	
09/02/02 12:25 PM	VITAL SIGNS	BP 142/90 P 68 R 20	
09/02/02 01:00 PM	MEDICATION SHEET	Heparin 800 units IV every hour	
09/02/02 01:00 PM	NURSES NOTES	Helping her with lunch, nurse called "Mom not talking, not using right hand." patient was using right hand doing gross but not fine movements. Right grip very weak unable to answer verbally. Right mouth slightly drooping, flat affect, mouth full of food,	A change in cognition.

Date	Location	Chart Documentation	<b>Review</b> Note/Reference
		unable to spit out or swallow. BP 124/73. Dr. Plum & 2 junior residents in to do neuro check. Patient unable to say her name, right grip stronger but still very much more dysphasic. Speech therapist in.	
09/02/02 01:05 PM	LABS / Coagulation	PTT 43 (coag <50->75) low	PTT 43 low, heparin increased to 900 units /hr. A PTT is due in 6 hours @ 7pm.
09/02/02 01:10 PM	NEUROLOGICAL SCORE	Neurological score: 12	A change in score, a change in verbal communication is noted, incomprehensive words.
09/02/02 01:15 PM	PHYSICIAN'S ORDERS / Dr. Mustard	Increase Heparin to 900 units/hr. PTT in 6 hours.	Heparin is increased.
09/02/02 01:35 PM	PROGRESS NOTES / Dr. Mustard	Recurrent TIA CT of head. Discussed with Dr. Plum & Dr. Peacock	
09/02/02 02:00 PM	NEUROLOGICAL SCORE	Neurological score: 12	
09/02/02 02:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/02/02 02:00 PM	VITAL SIGNS	BP 148/88 P 66 R 20	
09/02/02 02:00 PM	PROGRESS NOTES / Dr. Peacock	Patient continues to have difficulty finding words. Impression: CVA Requests speech therapy Will do CT scan.	Change in condition
		Continue IV 100cc/hr NS	
09/02/02 02:15 PM	PHYSICIAN'S ORDERS / Dr. Mustard	CT scan of the brain stat	
09/02/02 02:30 PM	CONSOLATION: Dr. Plum	Informed at 1330 that the patient has facial asymmetry & difficulty speaking .	Discussion with family a small bleed 24 hours after Heparin therapy began.
		BP dropped 94/77. IV normal saline being given. BP improved. Alert, marked expressive aphasia, at 1330 unable to speak at all, by 1430 was able to speak 1-2 words. Comprehension was good although was unable to follow complex instructions. Right side weakness.	BP dropped, still giving Heparin, Ecotrin & Plavix.
		Discussed with family- explained that Heparin prevents clots from forming but does not lyse clots. Patient was on Ecotrin, Plavix & Heparin so there is a danger of a stroke or a small bleed & that we would do a CT scan immediately to assure that there was no bleeding.	
		<ul><li>Plan:</li><li>1. Review CT scan.</li><li>2. Continue IV fluids, keep BP at 140 -150, check volume status at regular intervals.</li></ul>	
		Discussed plan with Dr. Peacock	
09/02/02 03:00 PM	NEUROLOGICAL SCORE	Neurological score: 12	Neuro score has decreased.



Date	Location	Chart Documentation	<b>Review</b> Note/Reference
09/02/02 03:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/02/02 03:10 PM	RADIOLOGY / CT scan of the brain	Sub-optimal CT scan Significant Atheromatous (fatty infiltration by lipids on the walls of arteries, seen in CAD) disease & stenosis cannot be excluded on this study. The number of vessels identified in the left middle cerebral circulation is decreased compared to the right.	Sub-optimal CT (should have been repeated) or a MRI done. Change in cognition & BP drop with earlier high PTT's.
09/02/02 04:00 PM	PHYSICIAN'S ORDERS / Dr. Mustard	Increase heparin gtt to 900 units every hour. Repeat PTT in 6 hours PTT in AM	PTT @ 7pm
		Continue IV saline 100cc/hr	
09/02/02 04:00 PM	NURSES NOTES	Awake, family at bedside, Right grasp weak, Right leg weaker, answers yes only, MAE, follows commands appropriately.	Right side is weaker.
09/02/02 04:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/02/02 04:00 PM	VITAL SIGNS	BP 140/60 P 68 R 20	
09/02/02 05:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/02/02 05:15 PM	PROGRESS NOTES / Dr. Plum	Recent event notes noted. BP now 140/60 Alert with expressive aphasia. CT scan negative for hemorrhage. Plan: Continue Heparin	The CT scan was sub optimal. Should have been repeated.
09/02/02 06:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/02/02 07:00 PM	LABS/ Coagulation	PTT 70 (coag <50->75) ok	
09/02/02 07:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/02/02 08:00 PM	VITAL SIGNS	T 38 P 68 R 18 BP 149/59	
09/02/02 08:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/02/02 08:00 PM	NURSES NOTES	Sleeping easily aroused, condition unchanged, Right side remains weaker. IV fluids continue @ 100cc/hr	Right side weaker.
09/02/02 09:00 PM	NURSES NOTES	Sleeping, easily arousable, speech unchanged, does not initiate conversation	
09/02/02 09:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/02/02 10:00 PM	NURSES NOTES / Nurse Green, RN	Patient alert, left sclera slightly bloodshot, expressive aphasia, Right grip slightly weaker than the left, MAE (moves all extremities),	Right grip slightly weaker than left Left sclera slightly bloodshot Change was not reported.
09/02/02 10:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	



Date	Location	Chart Documentation	<b>Review</b> Note/Reference
09/02/02 10:00 PM	NURSES NOTES	Comfortable, R side weaker	
09/02/02 11:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/02/02 11:30 PM	NURSES NOTES	IV @ 100cc/hr maintaining BP Chest clear Good urine output Abdomen soft, good bowel sounds Skin warm & dry Telemetry-normal sinus rhythm	
09/03/02 2:00 AM	VITAL SIGNS	T 35.5 P 62 R 20 BP 142/80	
09/03/02 12:00 AM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/03/02 12:10 AM	NURSES NOTES	Patient assessed denies any complaints, call light in reach, side rails checked x2.	
		IV fluids continue at 100 cc/hr	
09/03/02 01:00 AM	MEDICATION SHEET	Heparin 900 units IV every hour	
)9/03/02 )2:00 AM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/03/02 02:30 AM	NURSES NOTES	Patient responds to verbal stimuli, call light in reach, still slight right sided weakness, no complaints from the patient.	
		IV continues @ 100cc/hr	
09/03/02 03:00 AM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/03/02 04:00 AM	VITAL SIGNS	T 37 P 68 R 18 BP 140/70	
09/03/02 04:00 AM	LABS / Hematology	platelets 133 (ref 140-450) low MPV 12.6 (ref 7.4-10.4) high	Platelets, Hgb & Hct lower, 1st sign of anemia & a change in clinical condition
		Hgb 11.8 (ref 12-16) low Hct 35.8 (ref 37-47) low	
09/03/02 04:00 AM	NEUROLOGICAL SCORE	Neurological score: 12	
09/03/02 04:00 AM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/03/02 05:00 AM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/03/02 05:15 AM	LABS / Coagulation	PTT 74 (coag <50->75) ok	PTT is higher within range
			PTT @ 11:00
09/03/02 06:00 AM	MEDICATION SHEET	Heparin 900 units IV every hour	
)9/03/02 )6:00 AM	NEUROLOGICAL SCORE	Neurological score: 12	
9/03/02	NURSES NOTES	IV normal saline 100cc/hr	



Date	Location	Chart Documentation	<b>Review</b> Note/Reference
09/03/02 07:00 AM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/03/02 08:00 AM	NEUROLOGICAL SCORE	Neurological score: 12	
09/03/02 08:00 AM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/03/02 08:00 AM	VITAL SIGNS	T 37.9 P 64 R 18 BP 148/80	
09/03/02 09:00 AM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/03/02 09:30 AM	PHYSICIAN'S ORDERS / Dr. Mustard / Nurse Wadsworth, RN	Next APTT at 1100, then in AM Call if <50 or > 80 CBC with diff, BMP in am	Notes low Hgb & Hct 9pm CBC was not done.
		Continue IV normal saline at 100cc/hr	
		D/C Plavix & Ecotrin H/H low Repeat CBC with diff @ 9pm & call resident with the results	
09/03/02 09:35 AM	CONSOLATION / Dr. Plum	Diagnoses: Left cerebral infarct. Continue Heparin	
09/03/02 09:40 AM	PROGRESS NOTES / Dr. Mustard	Discussed with relatives & patient current management about the risk & benefits of continuing heparin. Monitor platelets closely. Discussed with Dr. Peacock & Dr. Plum	Dr. Mustard is concerned about he CBC.
09/03/02 10:00 AM	MEDICATION SHEET	Ecotrin & Plavix given x1 daily.	The order to d/c the Ecotrin & Plavix was written @ 9:30. The order was probably not taken off & Dr. Mustard did tell the nurses.
09/03/02 10:00 AM	NURSES NOTES	Patient remains aphasic, ate cereal & applesauce, tolerated. Dr. Plum in to see the patient this am. Up at bedside, comfortable.	
09/03/02 10:00 AM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/03/02 11:00 AM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/03/02 11:00 AM	LABS / Coagulation	PTT 73 (coag <50->75) ok	Going up a little, within desired range.
09/03/02 11:00 AM	PROGRESS NOTES / Dr. Mustard	Patient looks better today Lungs: clear Heart regular: rhythm, no gallop. Abdomen: benign Neuro status: tongue still slightly deviated to the right, ? Mild facial asymmetry droop. Impression: Recurrent TIA, on anticoagulants with heparin, ASA & Plavix, IV line looks OK.	
09/03/02 12:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/03/02 12:00 PM	VITAL SIGNS	T 38.5 P 56	



Date	Location	Chart Documentation	<b>Review</b> Note/Reference
		R 20 BP 142/78	
09/03/02 12:00 PM	NURSES NOTES	Ate lunch without a problem, tolerated.	
09/03/02 01:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/03/02 02:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/03/02 02:30 PM	NURSES NOTES	Assessment unchanged, speech improving.	
		IV 100cc/hr	
09/03/02 03:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/03/02 04:00 PM	NURSES NOTES	Patient resting in bed. Family at bedside. Heparin infusing a 900 units/hour. No difficulty, pain or discomfort, voided.	
		IV saline 100cc/hr	
09/03/02 04:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/03/02 04:00 PM	VITAL SIGNS	T 37 P 60 R 20 BP 140/80	
09/03/02 05:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/03/02 06:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/03/02 07:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/03/02 08:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/03/02 08:00 PM	NEUROLOGICAL SCORE / Nurse Green, RN	Neurological score: 10	Neurological score lower. The physicians were not notified.
09/03/02 08:00 PM	VITAL SIGNS	T 37.1 P 78 R 18 BP 142/90	
09/03/02 09:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/03/02 10:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/03/02 11:00 PM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/03/02 11:30 PM	NURSES NOTES / Nurse Green, RN	IV @ 100 cc/hr maintaining BP Chest clear Good urine output Abdomen soft, good bowel sounds Skin warm & dry Telemetry-normal sinus rhythm	
		Patient still aphasic with right-sided droop	
09/04/02 12:00 AM	VITAL SIGNS	T 37.8 P 92	

Date	Location	Chart Documentation	<b>Review</b> Note/Reference
		R 16 BP 138/80	
09/04/02 12:00 AM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/04/02 01:00 AM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/04/02 02:00 AM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/04/02 03:00 AM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/04/02 04:00 AM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/04/02 04:00 AM	VITAL SIGNS	BP 92/60 P 110 R 18	BP drops, pulse increases. This was not reported to the physicians.
09/04/02 04:50 AM	LABS / Coagulation	PTT >100 (coag <50->75) critical. Called to floor nurse White at 5:15	platelets low, Hct dropped, BP dropped, pulse increases Critical value never reported to the physicians. Heparin is continuing Critical value called to Nurse White @ 5:15. Couldn't find record that this value was reported to the physician. Heparin being infused at 900 units every hour.
09/04/02 04:50 AM	LABS / Hematology	platelets 80 (ref 140-150) low MPV 12.6 (ref 7.4-10.4) high	
		Hgb 8.6 (ref 12-16) low Hct 33.8 (ref 37-47) low	
09/04/02 05:00 AM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/04/02 05:30 AM	NURSES NOTES	IV saline @ 100cc/hr. Patient sleeping.	
09/04/02 06:00 AM	NEUROLOGICAL SCORE	Neurological score: 10	Doing worse
		Responses easily to stimulus Eye reaction sluggish Eyes not open Patient generally unresponsive Arm flexes to pain	
		Level of consciousness changed to confused (disoriented to time & place). verbal worse (inappropriate words or patient's ability to converse or answer questions).	
09/04/02 06:00 AM	MEDICATION SHEET	Heparin 900 units IV every hr	
09/04/02 06:30 AM	NURSES NOTES	Asked the patient if she could tell me where she was & the date, the patient replied "I suppose" in a trailing off voice, patient grasped right hand but weak & left pedal slight movement on command, patient diaphoretic, patient became less responsive & began showing right sided deficit. Left eye	Some of this documentation sheet is cut off from the copy. Left eye sclera slightly blood shot 9/3, no follow up, could a ophthalmologist visit detect small bleeds.

Date	Location	Chart Documentation	<b>Review</b> Note/Reference
		hyperemia (blood in the anterior chamber of the eye) present on initial exam pupils were both reactive at 3mm. Dr. Mustard paged, blood sugar 256.	
09/04/02 07:00 AM	NURSES NOTES	Dr. Peacock in to see the patient, EKG done, patient less responsive	2 hours ago a critical PTT value was called to nurse White this was not reported, now she is getting worse, heparin is still
		IV 100cc/hr	infusing.
09/04/02 07:00 AM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/04/02 07:30 AM	NURSES NOTES	Called to the room by phlebotomy, patient had emesis of small amount of food particles. Patient showing withdrawal posturing of right arm & right leg. Right leg tremors had seizure like tremor.	
09/04/02 08:00 AM	VITAL SIGNS	T 37.9 P 115 R 20 BP 90/60	Critical PTT still not reported.
09/04/02 08:00 AM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/04/02 09:00 AM	MEDICATION SHEET	Heparin 900 units IV every hour	
09/04/02 09:00 AM	NEUROLOGICAL SCORE	Neurological score: 6	Level of consciousness (semi-stuporous, minimal spontaneous activity)
09/04/02 09:10 AM	PHYSICIAN'S ORDERS / Dr. Mustard	Stat PTT & CBC	
09/04/02 09:30 AM	NURSES NOTES	BP 90, increase Nipride.	
09/04/02 09:30 AM	LABS / Coagulation	PTT >100 (coag <50->75) critical	Heparin was discontinued. Should have been d/c @ 5:15 when >100 PTT level was called to Rose.
09/04/02 09:30 AM	LABS / Hematology	platelets 70 (ref 140-450) low MPV 12.8 (ref 7.4-10.4) high	Labs lower, bleeding, MVP higher
		Hgb 7.9 (ref 12-16) low Hct 33.0 (ref 37-47) low	
09/04/02 09:34 AM	VITAL SIGNS	P 120 BP 80/50 R 10	
09/04/02 09:35 AM	NURSES NOTES	Nipride to control BP.	
09/04/02 09:40 AM	PHYSICIAN'S ORDERS / Dr. Mustard	D/C Heparin Protamine 20 mg IV stat Type & cross match for packed cells stat Give 2 units of packed cells	Protamine given to reverse the effects of the heparin.
09/04/02 09:45 AM	NURSES NOTES	Attempts to get BP difficult with manual cuff difficult due to posturing. Patient transferred to CCU bed #3, report given at bedside after CT scan.	
09/04/02 09:45 AM	NURSES NOTES	Patient intubated with 7.5 endotracheal tube a the 23 lip (they went through the mouth to place the tube into the trachea), ventilator rate 14, total volume 600 oxygen 100%.	

Date	Location	Chart Documentation	<b>Review</b> Note/Reference
		Attempting heplock to administer Protamine (heparin dilutant), IV started, Blood gases drawn before placement on ventilator.	
09/04/02 10:10 AM	NURSES NOTES	Patient arrived to the unit, unresponsive, Nipride started for BP, medical Resident in, patient at 90 degree angle, monitor heart rhythm, undigested food noted, suctioned from mouth. Pulse oxygen 100%, pupils pinpoint & non-reactive, patient posturing noted.	
09/04/02 10:15 AM	NURSES NOTES	Blood gas results called, ventilator settings adjusted rate 12 & oxygen 50%. Family remains at bedside.	
09/04/02 10:20 AM	NURSES NOTES	Foley catheter put in place with 500cc of clear urine at 2:30am. A NG (nasogastric tube) #16 in place via resident.	
09/04/02 10:35 AM	VITAL SIGNS	T 37.2 P 130 R- on ventilator BP 78/50	
09/04/02 10:35 AM	PHYSICIAN'S ORDERS / Dr. Mustard	Stat CT scan of the brain	
09/04/02 10:45 AM	NURSES NOTES	Patient taken to x-ray for CT scan. Respiratory therapy is with the patient managing the airway.	
09/04/02 11:00 AM	RADIOLOGY / CT scan of the brain	Cerebral hemorrhage	1 st ischemic stroke, now hemorrhagic stroke
09/04/02 11:30 AM	VITAL SIGNS	P 140 BP 60/40 R-on ventilator	
09/04/02 11:50 AM	NURSES NOTES	Back from x-ray. Patient remains unresponsive, neurologist speaking with family at this time. CT scan showed bleed. Family decided to make the patient DNR. Pupils are pinpoint	
09/04/02 12:00 PM	NURSES NOTES	Discussion Dr. Peacock & Dr. Mustard family decided to request a full DNR and discontinue heroic measures.	
09/04/02 12:10 PM	PHYSICIAN'S ORDERS / Dr. Mustard	Consult with Dr. Peach (anesthesia) RE: extubation.	
09/04/02 12:30 PM	NURSES NOTES	Patient received 1 mg if Morphine, extubated & placed on oxygen.	
09/04/02 12:40 PM	PHYSICIAN'S ORDERS / Dr. Mustard	Morphine drip titrate for comfort. D/C all other meds & labs. IV fluids D5 1/2 NS at 800 cc/hour.	
09/04/02 12:45 PM	NEUROLOGICAL SCORE	Neurological score: 5	Progressively worse.
09/04/02 12:50 PM	LABS/ Coagulation	PTT 25 (ref 20-33) ok	Normal, Heparin has been off for 3 hours
09/04/02 01:00 PM	NURSES NOTES	Family at bedside, patient breathing R 8	The patient passed away. Family in attendance.