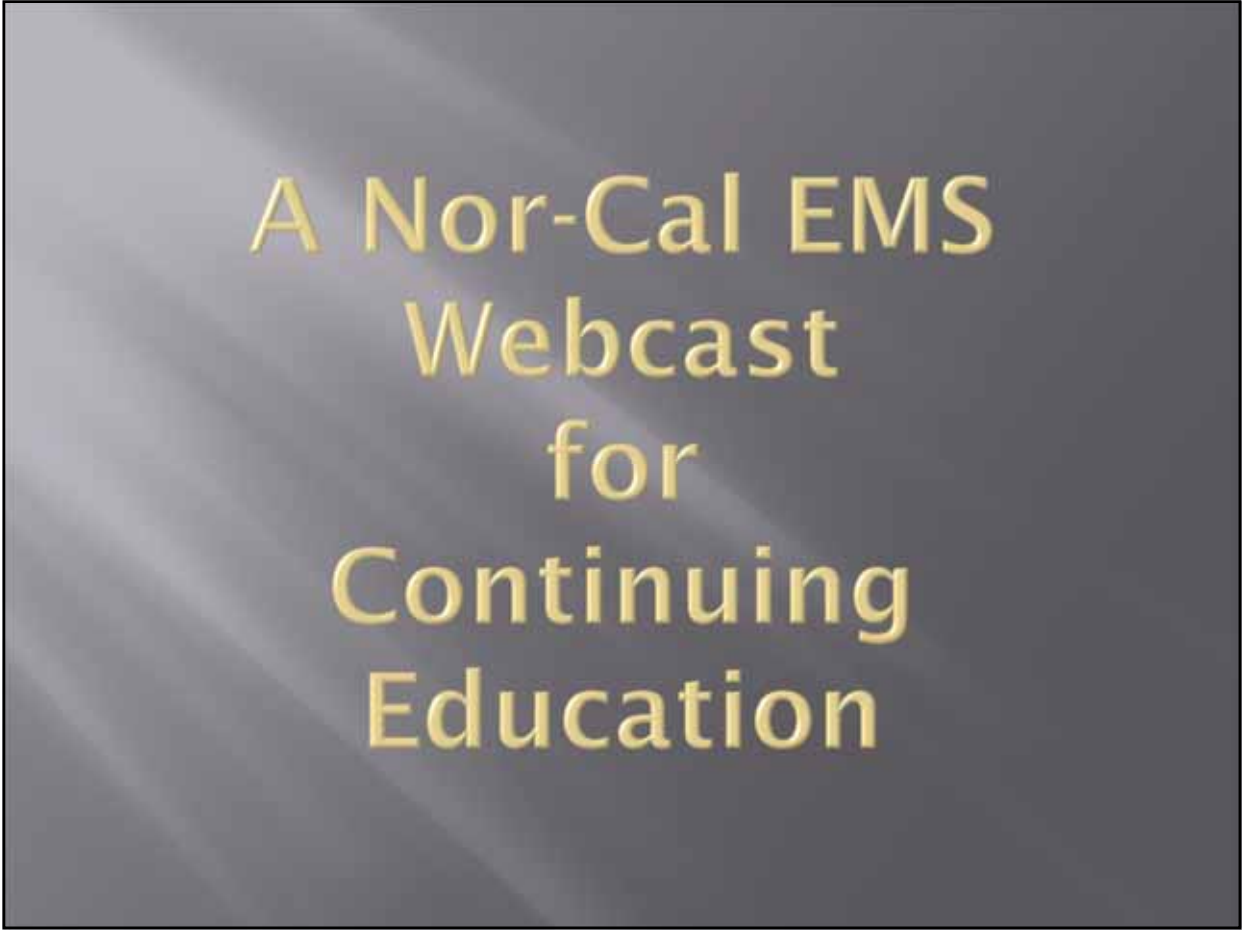


A Nor-Cal EMS Webcast  
Nor-Cal EMS Medical Advisory Committee  
Run Review March 2015

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Education

Presented By:  
Eric Rudnick MD, FACEP, FAAEM,  
Medical Director for Nor-Cal EMS.  
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**NOR-CAL EMS  
MEDICAL ADVISORY MEETING  
RUN REVIEW  
3/3/2015**

**Eric M. Rudnick, MD, FACEP, FAAEM  
Medical Director for Northern California EMS**

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## Case #1

- ▣ Dispatched code 3 to a local Vet clinic.
- ▣ On arrival to the Veterinary Clinic to find a 39 year female out the front door in company of co-workers.
- ▣ Pt. presented A&OX4, GCS 15, pale, warm, and dry.
- ▣ Patient is complaining of chest tightness secondary to SVT.
- ▣ Patient reported having extensive history of reoccurring SVT.
- ▣ Pt. reported taking Lopressor approximately 10 minutes ago and calling her cardiologist who advised her to be transported to ED.
- ▣ Patient reported attempting vaso-vagal maneuvers and carotid massage with no change.

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## Case #1

- ▣ Patient reported having a pulse oximeter and getting readings in the 200's for her heart rate.
- ▣ Patient denies any C/P, SOB, or N/V.
- ▣ Patient did complain of dizziness.
- ▣ Patient reported onset at 12:48 today while sitting at rest.
- ▣ Patient reported last SVT episode required administration of Adenosine due to ineffective vagal maneuvers.
- ▣ Patient reported having her first SVT occurrence September of last year and having episodes reoccurring more frequently and lasting longer.

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## Case #1

- ❑ Patient reported being on a regular regimen of Lopressor 25 mg in the morning and 25 mg at night.
- ❑ Patient also reported being advised by her cardiologist to take additional 25 mg Lopressor when in SVT.

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## Case #1

- ▣ Assessment as noted and VS as noted.
- ▣ Vagal maneuvers attempted by having the patient blow into a syringe with no changes.
- ▣ IV 20g Left hand unsuccessful by paramedic intern, 12 lead EKG SVT with no ST elevation or depression.
- ▣ IV 20g unsuccessful Right hand.
- ▣ IV 18g Right wrist successful with 1000ml NS TKO.
- ▣ Patient transported code 2 ALS to Hospital.
- ▣ BG 134 mg/dl.

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## Case #1

- ▣ Just prior to administration of Adenosine patient self-converted.
- ▣ Patient reported chest tightness decreasing and dizziness subsiding.
- ▣ Patient continued to deny any other C/C.
- ▣ 12 lead obtained NSR with no ST segment changes.
- ▣ Both 12 leads transmitted to hospital successfully.
- ▣ Patient en route continued with VS wnl and NSR EKG.
- ▣ Patient report en route to hospital MICN via phone with no questions and reported to not follow chest pain protocol and not administer ASA or NTG for chest pressure.

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## Case #1

- ▣ Patient on arrival to ED presented PWD with very minimal chest pressure and VS/EKG WNL.
- ▣ Pt. on arrival to ED report given and transfer of patient care.
- ▣ Copies EKG print outs provided and left with RN.

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## Case #1

- ❑ Medication Allergies: sulfa
- ❑ Patient medications: Lopressor (Metoprolol), B12, Multivitamins

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## Case #1

- ▣ PE 13:18
- ▣ Mental status: normal for patient
- ▣ Neuro: normal
- ▣ Eyes: reactive
- ▣ Skin: pale, warm, dry
- ▣ Head/Face: normal
- ▣ Neck: normal
- ▣ Chest/Lungs: normal chest assessment, clear and equal breath sounds

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## Case #1

- ▣ Abdomen: LUQ, LLQ, RUQ, RLQ soft, non-tender
- ▣ GU: normal
- ▣ Cervical, thoracic, lumbar: normal, no deformities or pain
- ▣ Extremities: RU, RL, LU, LL: normal

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## Case #1

- ▣ Vital signs
- ▣ 13:21 BP 121/77, HR 184, RR 16, SaO2 99, GCS 15
- ▣ 13:31 BP 124/73, HR 189, RR 16, SaO2 99
- ▣ 13:35 BP 112/74, HR 80, RR 16
- ▣ 13:42 BP 119/60, HR 78, RR 16
- ▣ 13:50 110/80, HR 82, RR 16

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## Case #1

- ▣ 13:21 ECG monitor SVT
- ▣ 13:24 ECG monitor SVT
- ▣ 13:33 ECG NSR
- ▣ 13:40 ECG NSR
- ▣ 13:18 Adult ALS assessment
- ▣ 13:22 Valsalva 2 attempts no change
- ▣ 13:24 IV access saline lock
- ▣ 13:26 Oxygen 2 LPM
- ▣ 13:29 IV access saline lock
- ▣ 13:30 Blood glucose 134 mg/dl

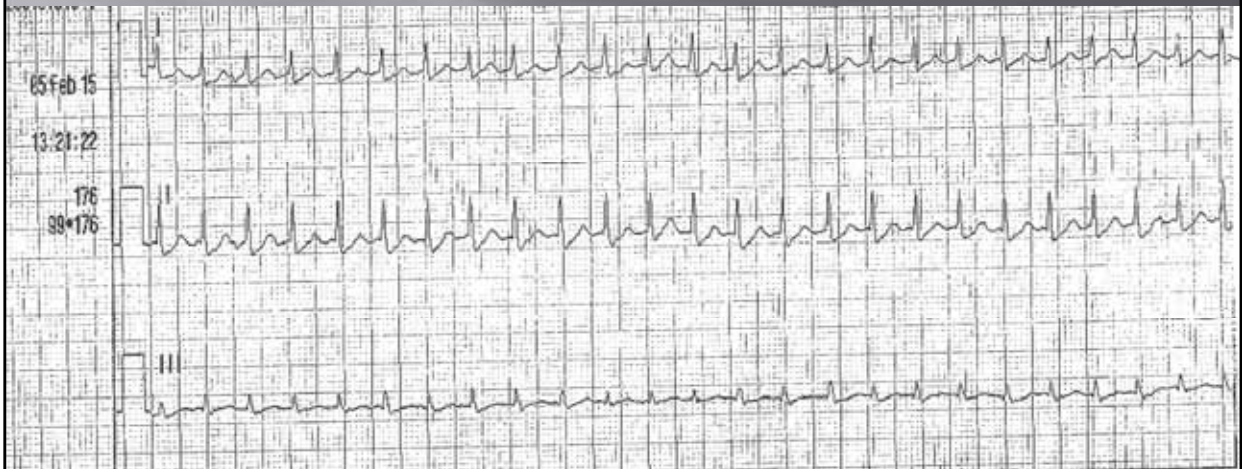
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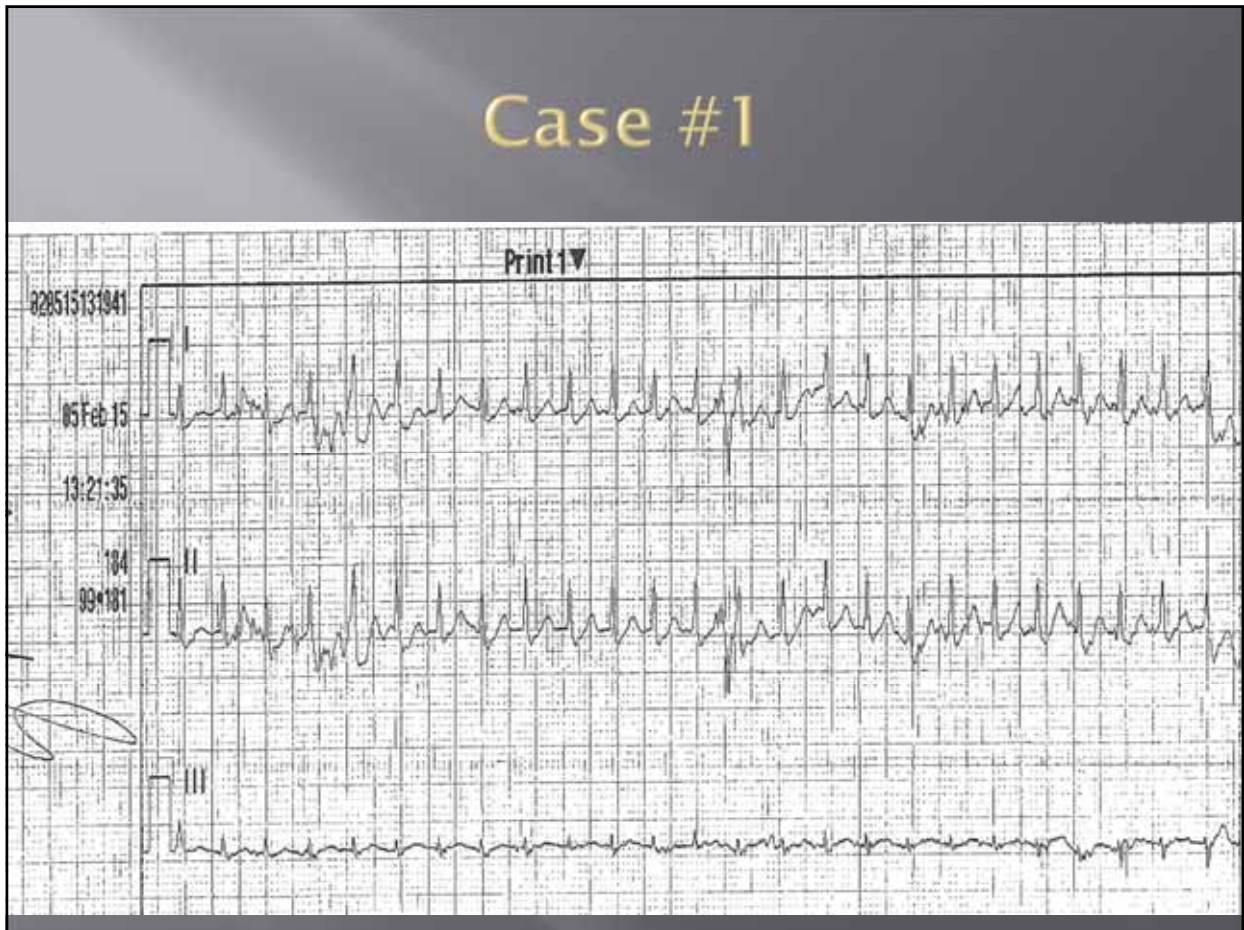
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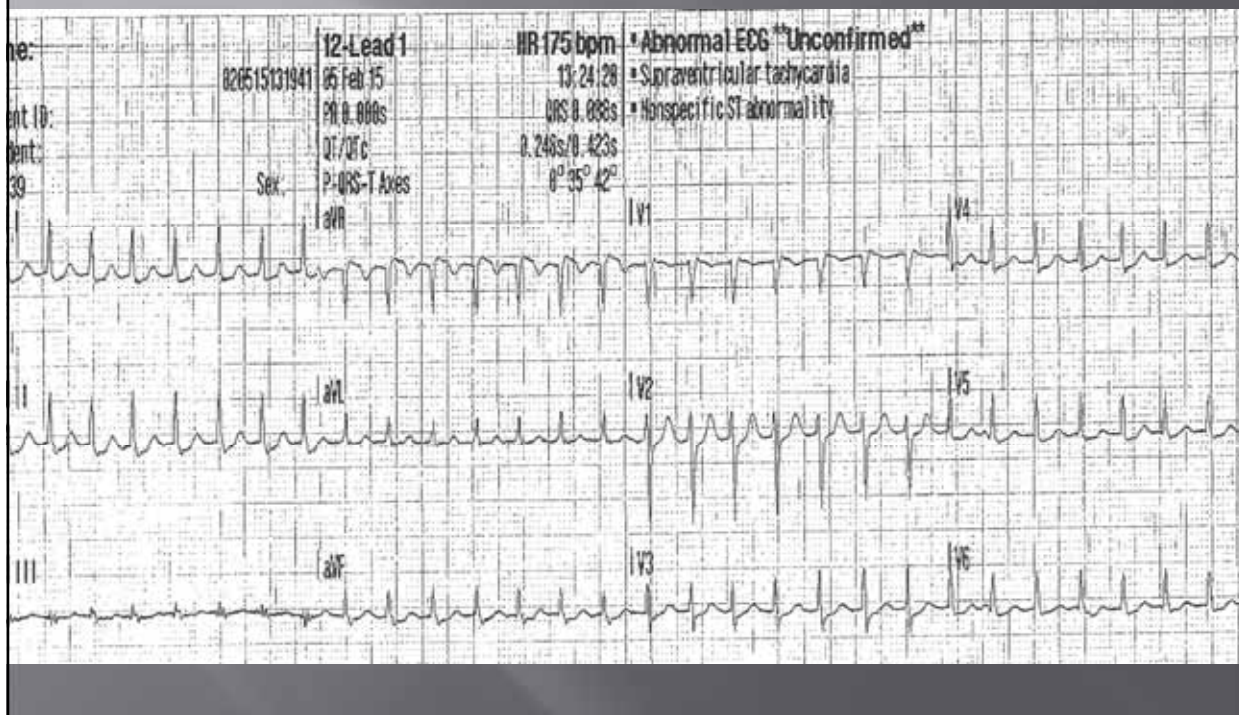
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## Case #1



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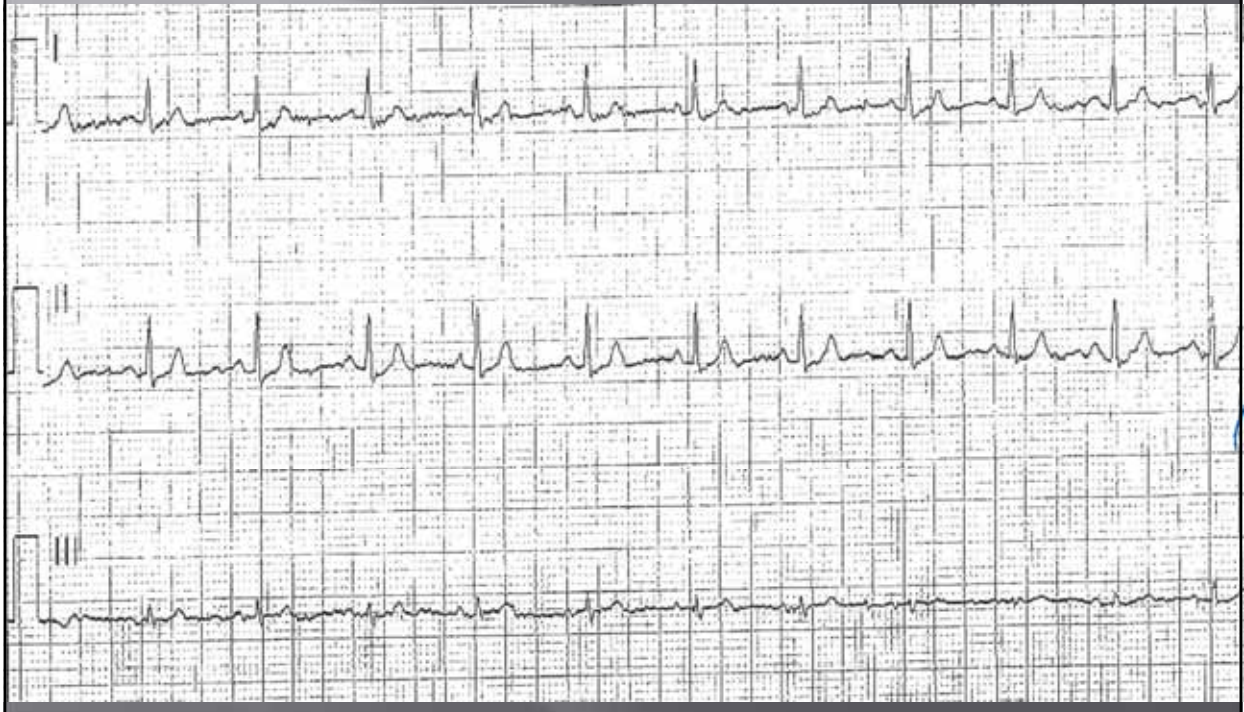


## Case #1



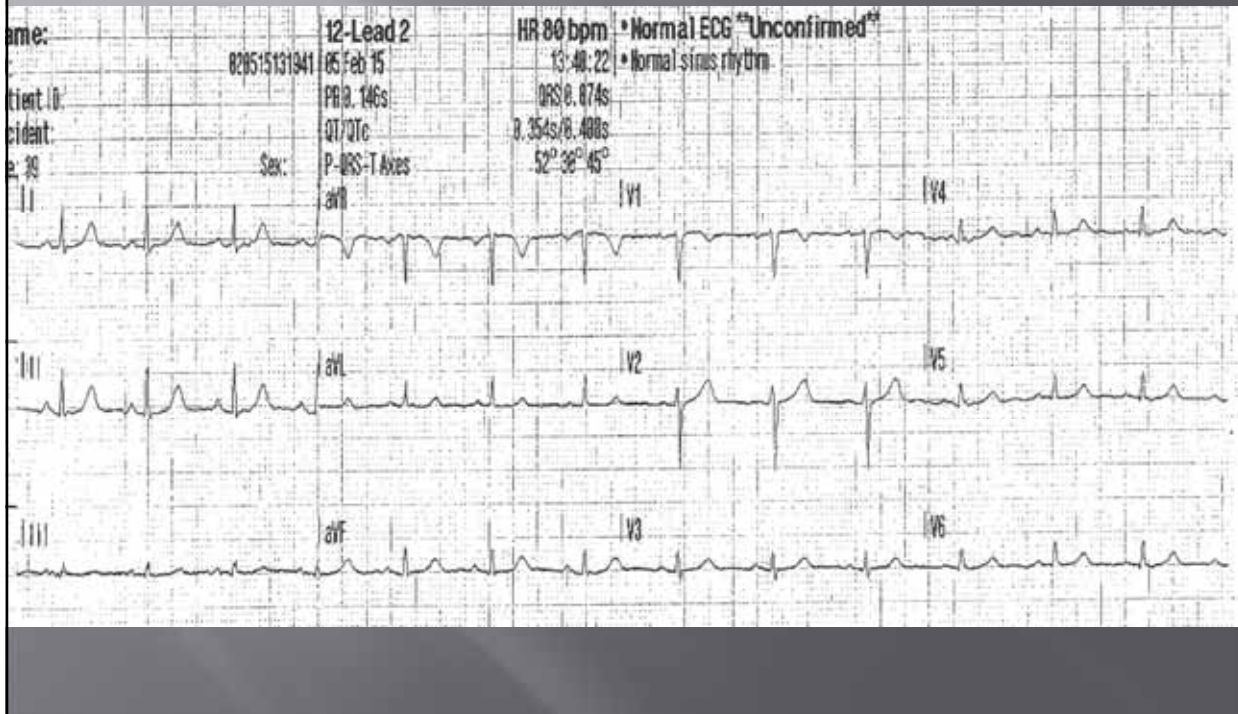
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## Case #1



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## Case #1



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## Case #1

- ▣ Documentation?
- ▣ Quality of care delivered?
- ▣ Other issues and concerns?
- ▣ Care appropriate?
- ▣ Overall impression?
- ▣ Protocol changes required?
- ▣ Teaching/Take home points

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## Case #2

- ▣ Responded code 2 for a female with a possible stroke.
- ▣ At scene to Board and Care to be greeted by caregivers.
- ▣ The caregiver went to the kitchen and returned to find the patient slumping to the right drooling, slurred speech, and right facial droop and the right hand contracted up.
- ▣ Patient was last seen normal at 16:20 hours.
- ▣ Patient was found sitting in a chair in her bedroom with the caregiver and neighbor in attendance.
- ▣ Patient had positive stroke assessment.

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## Case #2

- ❑ Patient denies CP, SOB, , or N/V.
- ❑ The caregiver provided the DNR and current medication list.
- ❑ POA could not be reached due to the caregiver not having the POA's phone number.
- ❑ Patient was able to speak however the words were slurred.

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## Case #2

- ▣ Patient was A&OX1 to person only.
- ▣ GCS 14 with reduction due to confusion.
- ▣ Patient's skin signs were pale, warm, and dry.
- ▣ HEENT was clear with right sided gaze and dilated pupil on the right with sluggish reaction.
- ▣ Trachea midline without JVD.
- ▣ Equal chest rise and fall with clear LS.
- ▣ Abdomen SNT.
- ▣ Pelvis intact and stable.

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## Case #2

- ▣ Good CSM on the left with flaccid motor function on the right.
- ▣ Patient was loaded onto stretcher and into the ambulance.
- ▣ Patient was transported code 2 to hospital.
- ▣ In the ambulance vitals and pulse ox were obtained.
- ▣ Patient was placed on the cardiac monitor with A-fib showing.
- ▣ A 12 lead EKG was obtained.
- ▣ Phone report was given to the hospital with orders to upgrade to code 3 and the was a stroke alert.
- ▣ Bilateral IVs were started in the wrists.

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## Case #2

- ▣ Blood sugar levels were obtained with a reading of 103mg/dl.
- ▣ Patient given oxygen via nasal cannula at 4 LPM.
- ▣ The patient vomited and the oral pharynx was cleared with a hand towel.
- ▣ Arrived at hospital ER without further complications.
- ▣ While wheeling the patient into the hospital patient vomited again.
- ▣ Patient was turned on the left lateral position.

## Case #2

- ▣ 16:28 PE:
- ▣ Mental status: confused, oriented-person
- ▣ Neuro: normal
- ▣ Eyes: R: sluggish L:Reactive
- ▣ Skin: normal
- ▣ Head/Face: Asymmetric smile or droop
- ▣ Neck: normal
- ▣ Chest/lungs: normal chest assessment, clear and equal BS

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## Case #2

- ▣ Heart: normal
- ▣ Abdomen: LUQ, LLQ, RUQ, RLQ: soft, non-tender
- ▣ GU: normal
- ▣ Cervical, Thoracic, Lumbar: non-tender, no pain
- ▣ Extremities: RU weakness abnormal CSM, LU normal, RL weakness, abnormal CSM, LL normal

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## Case #2

- ▣ 16:30 BP 200/105, HR 78, RR 16, SaO2 92
- ▣ 16:35 BP 210/108, HR 68, RR 16, SaO2 98
- ▣ 16:40 BP 201/101, HR 75, RR 16
- ▣ 16:45 BP 217/107, HR 88, RR 16
- ▣ 16:50 BP 214/109, HR 68, RR 16
- ▣ 16:55 BP 209/110, HR 78, RR 16
- ▣ 17:00 BP 215/106, HR 65, RR 16

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## Case #2

- ▣ 16:30 Blood pressure
- ▣ 16:30 Pulse oximetry
- ▣ 16:35 Cardiac monitor
- ▣ 16:39 Venous access
- ▣ 16:45 Blood glucose
- ▣ 16:45 Venous access
- ▣ 16:50 Oxygen nasal cannula 4 PLM

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## Case #2



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## Case #2



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## Case #2

- ▣ Documentation?
- ▣ Quality of care delivered?
- ▣ Other issues and concerns?
- ▣ Care appropriate?
- ▣ Overall impression?
- ▣ Protocol changes required?
- ▣ Teaching/Take home points

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## Case #3

- ▣ Chief Complaint: N/V/Back pain in a 55 female
- ▣ Dispatched for a female with abdominal pain.
- ▣ Responded code 3.
- ▣ On arrival finds patient walking down stairs to her front room with fire and her husband in attendance.
- ▣ Patient states that at approximately 12:30 today she began to have abdominal pain.
- ▣ Patient states that her pain is in her right quadrant and in her thoracic area.

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## Case #3

- ▣ Patient states that it has been increasingly getting worse and approximately 13:30 she began to have nausea.
- ▣ Patient states that she has not vomited, nor had a bowel movement today.
- ▣ Patient states that she no longer has her appendix or gallbladder.
- ▣ Patient denies any chest pain, shortness of breath, headache, or dizziness.
- ▣ Patient has a port-a-cath in upper right chest, she states that she is extremely hard to get an IV established and wishes to wait to have the port accessed.

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## Case #3

- ▣ Patient assisted to gurney and to the ambulance.
- ▣ C/C abdominal pain
- ▣ TX: patient placed on cardiac monitor and vitals obtained as noted.
- ▣ 12 Lead EKG obtained as noted.
- ▣ O2 placed as noted.
- ▣ Zofran administered as noted with no relief.
- ▣ PE: HEENT: clear PERRL
- ▣ Skin: pale, warm, clammy

## Case #3

- ▣ Neck: intact
- ▣ Lungs: clear with equal chest rise bilaterally.
- ▣ Abdomen: soft, non-tender in all four quadrants, non-distended, active bowel sounds in all four quadrants.
- ▣ Pelvis: intact
- ▣ CSM intact in all extremities
- ▣ During transport no acute changes.

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## Case #3

- ▣ Allergies: Toradol
- ▣ Medications: Alprazolam, ASA, Carvediolol, Estradiol, Famotidine, HCTZ, Losartan, Progesterone, Omeprazole, Paroxetine, Prednisone, Promethazine, trazadone
- ▣ PMH: HTN, Cardiac Stent, GI/GU conditions, Psychological/Depression, Anxiety

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## Case #3

- ▣ Vitals:
- ▣ 15:45 BP 112/73, HR 68, RR 18, SpO2 96
- ▣ 15:53 BP 115/86, HR 80, RR 20

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## Case #3



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## Case #3



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## Case #3

- ▣ Documentation?
- ▣ Quality of care delivered?
- ▣ Other issues and concerns?
- ▣ Care appropriate?
- ▣ Overall impression?
- ▣ Protocol changes required?
- ▣ Teaching/Take home points

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## Case #4

- ▣ Dispatched code 2 to a private residence for chest discomfort and elevated heart rate.
- ▣ On arrival to rural residence, personnel unable to gain access into residence.
- ▣ Med Com advised patient will be opening door.
- ▣ Upon patient contact to be greeted by a 78 year old male who was just requesting a BP evaluation.
- ▣ Patient presented A&OX4, GCS 15, PWD, speaking full sentences without difficulty and no slurred speech.

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## Case #4

- ▣ Patient provided documentation of 6 blood pressures he had obtained with his home automatic cuff and was concerned by his high blood pressure results and so he reportedly called 911.
- ▣ Patient denied any C/C, patient denied CP, SOB, HA, blurred vision, or N/V.
- ▣ Patient reported not taking his blood pressure medications as prescribed and only taking it occasionally.
- ▣ Patient reported taking his metoprolol approximately 30 minutes PTA of EMS.

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## Case #4

- ▣ Assessment as noted and unremarkable, negative stroke scale, + CSMX4, no pedal edema noted.
- ▣ Vital as noted with an initial manual BP of 280/140 mm Hg, HR 92 irregular, RR 16, SpO2 97% on RA.
- ▣ CM SR with occasional PVCs.
- ▣ Patient was advised of the need to be transported and the risk of complications associated with HTN.
- ▣ Patient agreed to be transported.
- ▣ After extended time securing patient's residence as requested by patient, patient to LSU without changes and or incident.

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## Case #4

- ▣ Patient transported code 2 to hospital.
- ▣ 12 Lead obtained with no ST segment, SR with PVCs as noted, O2 via NC with no changes, IV left FA successful X1,
- ▣ BG 197 mg/dl
- ▣ VS en route as noted with continuous HTN.
- ▣ Patient report via phone with no questions or orders.
- ▣ Patient en route continued to deny any C/C.

## Case #4

- ▣ PE:
- ▣ Mental status: normal for patient
- ▣ Neuro: normal
- ▣ Eyes: reactive
- ▣ Skin: normal
- ▣ Head/Face: normal
- ▣ Neck: normal
- ▣ Chest/lungs: normal chest assessment, clear and equal BS

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## Case #4

- ▣ Abdomen LUQ, RUQ, LLQ, RLQ: soft and non-tender
- ▣ GU: normal
- ▣ Cervical, Thoracic, Lumbar: normal, no pain or deformities
- ▣ Extremities: RU, LU, RL, LL: normal

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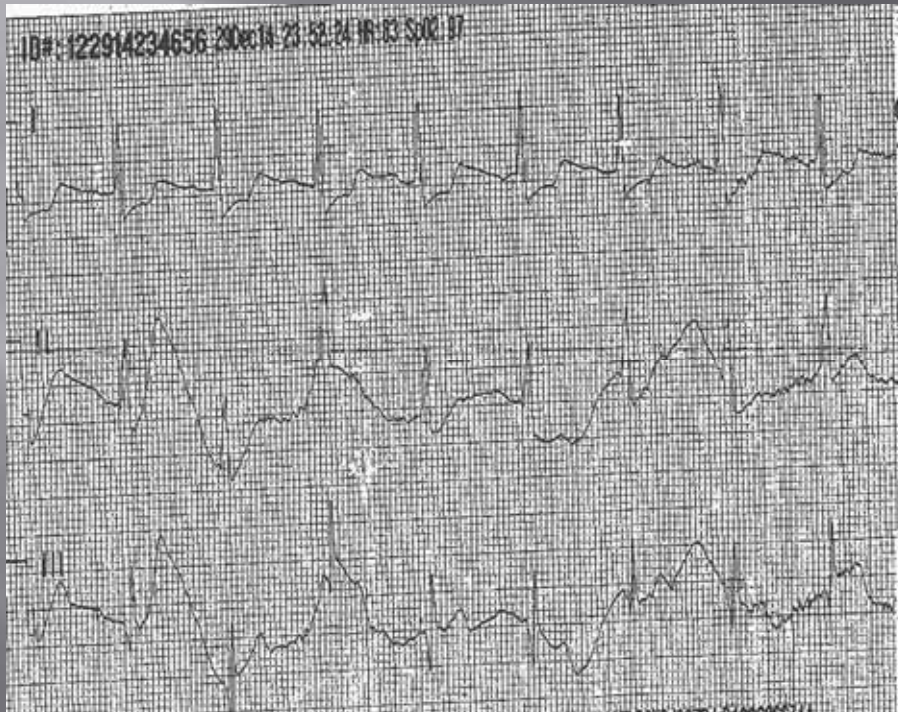
## Case #4

- ▣ 23:50 BP 280/140, HR 92, RR 16, SpO2 98%
- ▣ 00:18 BP 198/106, HR 78, RR 16
- ▣ 00:30 250/110, HR 88, RR 16
- ▣ 23:45 Assessment- adult
- ▣ 00:15 Venous access- saline lock
- ▣ 00:16 BG 197 mg/dl
- ▣ 00:10 Oxygen per NC 4LPM

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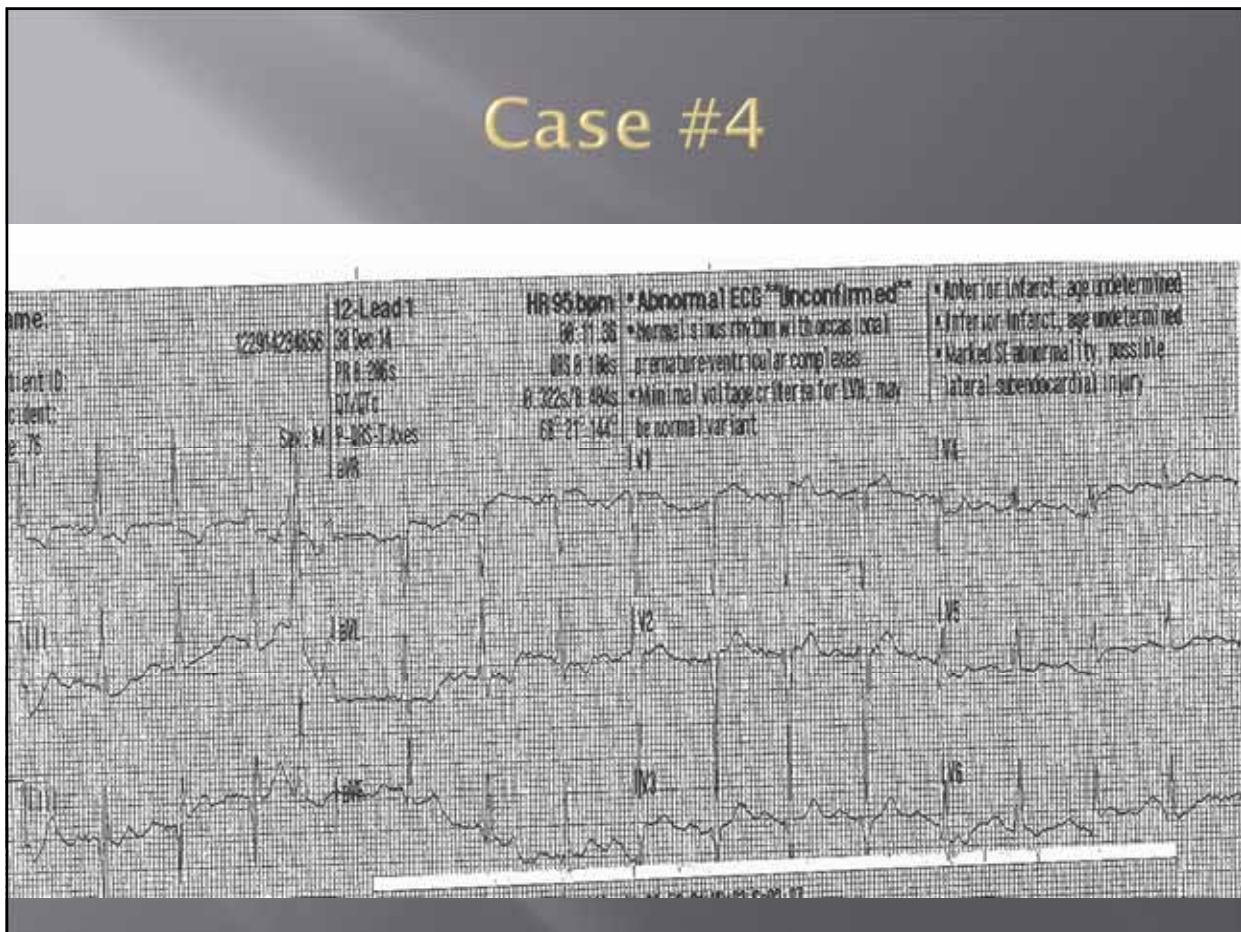


## Case #4



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## Case #4



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## Case #4

- ▣ Documentation?
- ▣ Quality of care delivered?
- ▣ Other issues and concerns?
- ▣ Care appropriate?
- ▣ Overall impression?
- ▣ Protocol changes required?
- ▣ Teaching/Take home points

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## Case #5

- ▣ Dispatched code 3 to a MVA.
- ▣ Arrived @ scene to find a 41 year old male walking toward the ambulance.
- ▣ Patient C/O neck/back/LT arm pain positive rollover.
- ▣ Patient reports driving home to Redding from UC Davis Medical Center, when he fell asleep while driving.
- ▣ Patient reports to driving with cruise control set at 70 mph.
- ▣ Patient was driving full sized Dodge truck and was unsure how many times the truck rolled.

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## Case #5

- ▣ Patient's truck went through a wire fence coming to rest at the current location upside right.
- ▣ Patient reports to wearing shoulder and lap belt and was self extracted PTA.
- ▣ Patient's truck has major damage all over with right rear tire torn off, deformity to roof with intrusion into passengers compartment with approximately 12-18" intrusion to passenger's side.
- ▣ Shattering of windshield with partial ejection of windshield observed.
- ▣ No steering wheel or dashboard deformities observed.
- ▣ No airbags deployed.

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## Case #5

- ▣ Exam: Patient was pale, cool, and moist. CA&OX3, negative to time and unable to recall recent Thanksgiving Holiday.
- ▣ HEENT: Approximately 1 inch lac to LT side head, 1-2 mm wide and no active bleeding.
- ▣ No crepitus/deformity/depression noted.
- ▣ PERRL, no oral trauma noted.
- ▣ Neck: Trachea midline, No JVD observed no pain with palp but did c/o pain while being c-spine.
- ▣ Chest: Equal rise and fall, no crepitus or bruising observed.

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## Case #5

- ▣ No subcutaneous emphysema noted.
- ▣ L/S are clear and equal in all fields with good tidal volume.
- ▣ Swelling noted to left armpit area.
- ▣ Abdomen: S&NT X4, no masses felt upon palpation.
- ▣ Back: No trauma/deformities felt upon palpation.
- ▣ C/O of high back pain during c-spine.
- ▣ Pelvis: stable and intact, no incontinence observed.
- ▣ Extremities: Deformity noted to left shoulder joint with soft tissue swelling. No crepitus noted.

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## Case #5

- ▣ Capillary refill at 3 seconds and difficulty palpating radial pulse.
- ▣ Patient c/o unable to move arm and decreased sensation.
- ▣ Abrasion noted to left elbow, rt 2<sup>nd</sup> and 3<sup>rd</sup> metacarpals, abrasion to bilateral shins just above ankles, all with no active bleeding.

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## Case #5

- ▣ Treatment: Patient examined with TTA.
- ▣ Patient placed in full c-spine, placed on stretcher and load to ambulance.
- ▣ En route to hospital code 3.
- ▣ 4X4 placed on abrasion to left elbow.
- ▣ Left arm positioned to patient's thoracic area.
- ▣ IV X 2 started as noted.
- ▣ CM attached not due marked artifact unable to determine rhythm.

## Case #5

- ▣ Skin prep done without any change to CM.
- ▣ O2 applied and BG obtained.
- ▣ Patient report given to hospital before drive to Sacramento and further denies any other recreational drug or prescription use.
- ▣ Patient denies ETOH with CHP reporting the patient blew zero on breathalyzer machine.
- ▣ Base contact made with no further orders.
- ▣ Arrived hospital without incident.

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## Case #5

- ▣ NKDA
- ▣ Medications: Medical THC
- ▣ PHM: chronic knee pain

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## Case #5

- ▣ PE:
- ▣ Mental status: normal
- ▣ Neuro: normal
- ▣ Eyes: reactive
- ▣ Skin: cold, clammy, pale
- ▣ Head/Neck: normal
- ▣ Neck: normal
- ▣ Chest/lungs: normal chest assessment, clear and equal

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## Case #5

- ▣ Heart: normal
- ▣ Abdomen: LUQ, RUQ, LLQ, RLQ: soft, non-tender
- ▣ GU: normal
- ▣ Cervical: normal
- ▣ Thoracic: normal
- ▣ Lumbar: normal
- ▣ Extremities: LU, LL, RU, RL: normal

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## Case #5

- ▣ 03:31: BP 127/79, HR 61, RR 16, SpO2 99%, GCS 15
- ▣ 03:35: BP 131/89, HR 61, RR 16
- ▣ 03:50: BP 139/113, HR 55, RR 16
- ▣ 03:59: BP 134/85, HR 55, RR 16
- ▣ 03:23: spinal immobilization
- ▣ 03:36: Venous access
- ▣ 03:37: Blood glucose 204 mg/dl
- ▣ 03:40: bleeding/ hemorrhage control Arm left
- ▣ 03:46: Venous access

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## Case #5

- ▣ 03:33 Oxygen by nasal cannula 6 LPM
- ▣ 03:36 Normal Saline at KVO

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## Case #5

- ▣ Documentation?
- ▣ Quality of care delivered?
- ▣ Other issues and concerns?
- ▣ Care appropriate?
- ▣ Overall impression?
- ▣ Protocol changes required?
- ▣ Teaching/Take home points

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**Thank You**

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