Physician Orders ADULT: ED Atrial Fibrillation Plan

ED AFib Diagnostic Orders Phase

Patient Care

- Intermittent Needle Therapy Insert/Site Care
  - T;N, Routine, q4day
- Vital Signs
  - T;N, Routine
- O2 Sat Spot Check-NSG
  - T;N, Stat
- O2 Sat Monitoring NSG
  - T;N, Stat

Nursing Communication

- Nursing Communication
  - T;N, Discontinue ALL Phases of the ED Atrial Fibrillation Plan if patient is admitted. KEEP any active orders for Heparin and/or Diltiazem infusions.

Diagnostic Tests

- EKG
  - Start at: T;N, Priority: Stat, Reason: Chest Pain/Angina/MI (DEF)*
    - Comments: Within 10 minutes of arrival.
  - Start at: T;N, Priority: Stat, Reason: Arrhythmia/Dysrhythmia
    - Comments: Within 10 minutes of arrival
- Chest 1 VW
  - T;N, Reason for Exam: Arrhythmia, Stat

Urgent Cardi oversion Phase

Patient Care

If patient has any of the following present, synchronize, shock and order heparin below.
1. Heart failure exacerbation
2. Symptomatic hypotension
3. Ongoing cardiac ischemia
4. Symptomatic angina
   - If present, sedate and synchronize shock at 200J; Repeat at 300J and 360J if needed. (NOTE)*

Laboratory

- CBC
  - STAT, T;N, once, Type: Blood, Nurse Collect
- ED Troponin-I
  - STAT, T;N, once, Type: Blood, Nurse Collect
- BMP
  - STAT, T;N, once, Type: Blood, Nurse Collect
- Magnesium Level
  - STAT, T;N, once, Type: Blood, Nurse Collect
- CK
  - STAT, T;N, once, Type: Blood, Nurse Collect
- PT/INR
  - STAT, T;N, once, Type: Blood, Nurse Collect
- TSH
  - STAT, T;N, once, Type: Blood, Nurse Collect
Physician Orders ADULT: ED Atrial Fibrillation Plan

- T4 Free
  - STAT, T;N, once, Type: Blood, Nurse Collect
- D-Dimer Quantitative
  - STAT, T;N, once, Type: Blood, Nurse Collect
- Drug Abuse Screen Urine
  - STAT, T;N, once, Type: Urine, Nurse Collect

Consults/Notifications/Referrals
For any patient with atrial fibrillation for LESS than 48 hours, consult cardiology/electrophysiology service immediately for pharmacological or electrical cardioversion.(NOTE)*
- Physician Consult
  - T;N, Reason for Consult: Cardiology/Electrophysiology service for Pharmacological or electrical cardioversion of atrial fibrillation

Care Sets/Protocols/PowerPlans
if patient does NOT have any heart failure exacerbation, symptomatic hypotension, angina or ongoing cardiac ischemia AND the atrial fibrillation has duration of MORE than 48 hours, order heparin below if no contraindications present and proceed to Rate Control Strategies.(NOTE)*
- Heparin Cardiology Protocol Orders(SUB)*

Electrolyte Replacement Phase
Medications
Use orders below to achieve potassium level greater than 4 and magnesium level greater than 2.(NOTE)*
- If patient is on dialysis or CrCl less than 30, consider reducing doses.(NOTE)*
- magnesium sulfate
  - 4 g, IV Piggyback, IV Piggyback, N/A, PRN Hypomagnesemia, Routine, ( infuse over 4 hr )
    - Comments: Give if serum magnesium is less than or equal to 1.5mg/dL Request dose from pharmacy (ED Only)
- magnesium sulfate
  - 2 g, IV Piggyback, IV Piggyback, N/A, PRN Hypomagnesemia, Routine, ( infuse over 2 hr )
    - Comments: Give if magnesium level is 2-1.6mg/dL. Request dose from pharmacy (ED Only)
- potassium chloride
  - 40 mEq, IV Piggyback, IV Piggyback, N/A, PRN Hypokalemia, Routine, ( for 0, ( infuse over 4 hr )
    - Comments: Give if potassium level is less than 3.5 mmol/L. Run at 10 mEq/hr. Request dose from pharmacy (ED Only)
- potassium chloride
  - 20 mEq, IV Piggyback, IV Piggyback, N/A, PRN Hypokalemia, Routine, ( for 0, ( infuse over 2 hr )
    - Comments: Give if potassium level is 4-3.5 mmol/L. Request Dose from pharmacy (ED Only)

Rate Control Strategy - Step 1 Phase
Medications
- If patient does NOT have any of the following: 1. Heart failure exacerbation 2. Symptomatic hypotension 3. Symptomatic angina 4. Ongoing cardiac ischemia Order appropriate rate of Rate Control Strategy below, beginning with diltiazem:(NOTE)*
- diltiazem
  - 5 mg, Injection, IV Push, N/A, Routine
Physician Orders ADULT: ED Atrial Fibrillation Plan

Comments: Loading Dose - infuse over 2 min  (ED Only)

☐ diltiazem 10 mg, Injection, IV Push, N/A, Routine  
  Comments: Loading Dose - infuse over 2 min  (ED Only)

☐ diltiazem 20 mg, Injection, IV Push, N/A, Routine  
  Comments: Loading Dose - infuse over 2 min  (ED Only)

☐ diltiazem 125 mg/D5W infusion  
  125 mg / 125 mL, IV, titrate  
  Comments: Loading Dose - infuse over 2 min  (ED Only)

Rate Control Strategy - Step 2 Phase

Medications
If goal HR (HR < 110) is NOT achieved with Diltiazem at maximum dose of 15mg/hr for 30 minutes BUT SBP is LESS THAN 100, CONTINUE diltiazem and order digoxin below:(NOTE)*

☐ metoprolol tartrate 1 mg/mL injectable solution  
  5 mg, Injection, IV Push, q5min, (for 3 dose )  
  Comments: Total dose 15 mg. Check HR and SBP after each dose (ED Only)

  AND(NOTE)*

☐ digoxin 0.25 mg, Injection, IV Push, q4h, Routine, (for 4 dose )  
  Comments: Total dose of 1mg. (ED Only)

☐ digoxin 0.25 mg, Injection, IV Push, q4h, Routine, (for 2 dose )  
  Comments: Total dose of 0.5mg for ESRD or CrCl less than 15 ml/min (ED Only)

  If goal HR (HR < 110) is NOT achieved with Diltiazem at maximum dose of 15mg/hr for 30 minutes and SBP > 100, CONTINUE diltiazem and order metoprolol and digoxin below:(NOTE)*

☐ digoxin 0.25 mg, Injection, IV Push, q4h, Routine, (for 4 dose )  
  Comments: Total dose of 1mg. (ED Only)

☐ digoxin 0.25 mg, Injection, IV Push, q4h, Routine, (for 2 dose )  
  Comments: Total dose of 0.5mg for ESRD or CrCl less than 15 ml/min (ED Only)

*Report Legend:
DEF - This order sentence is the default for the selected order
GOAL - This component is a goal
IND - This component is an indicator
INT - This component is an intervention

Date _____________________________  Time _____________________________  Physician’s Signature _____________________________  MD Number _____________________________

ED Atrial Fibrillation Plan 20565 QM0615 PP 072815
Physician Orders ADULT: ED Atrial Fibrillation Plan

IVS - This component is an IV Set
NOTE - This component is a note
Rx - This component is a prescription
SUB - This component is a sub phase, see separate sheet
R - Required order