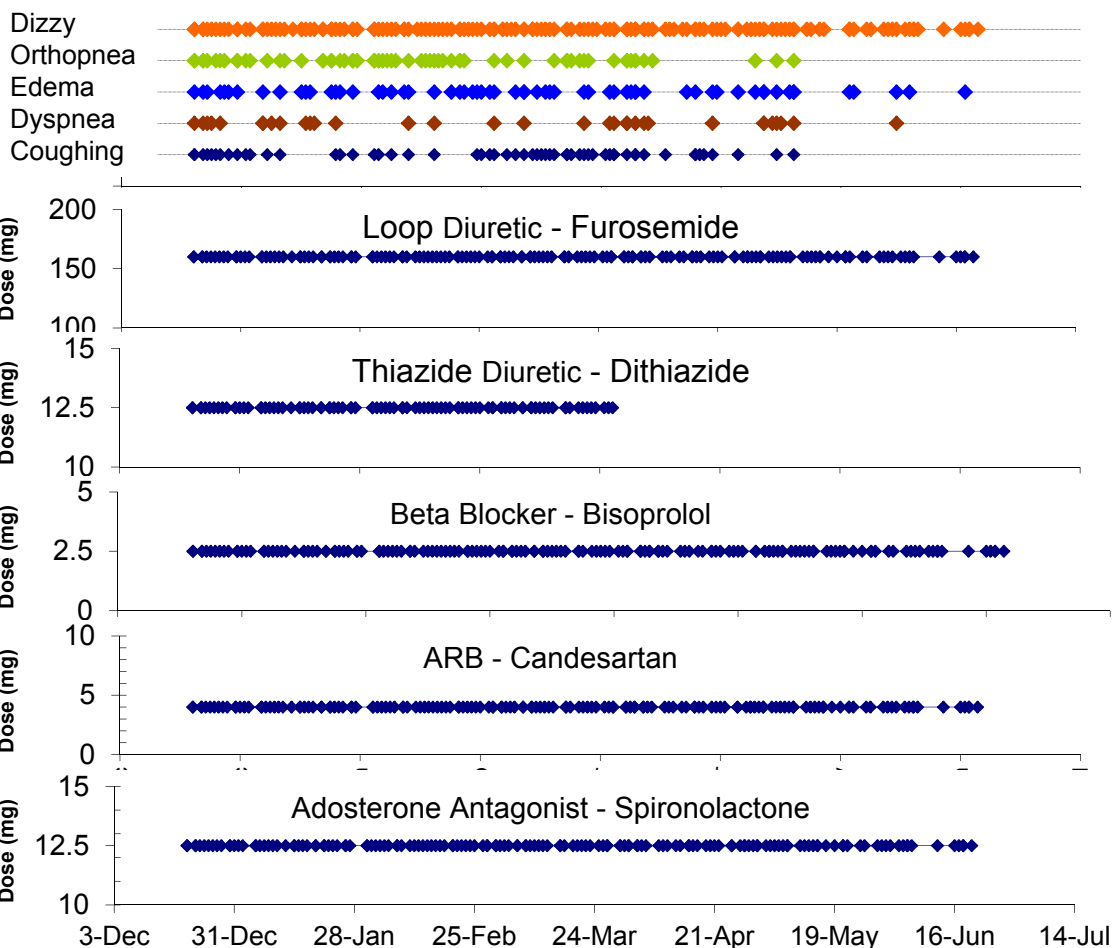
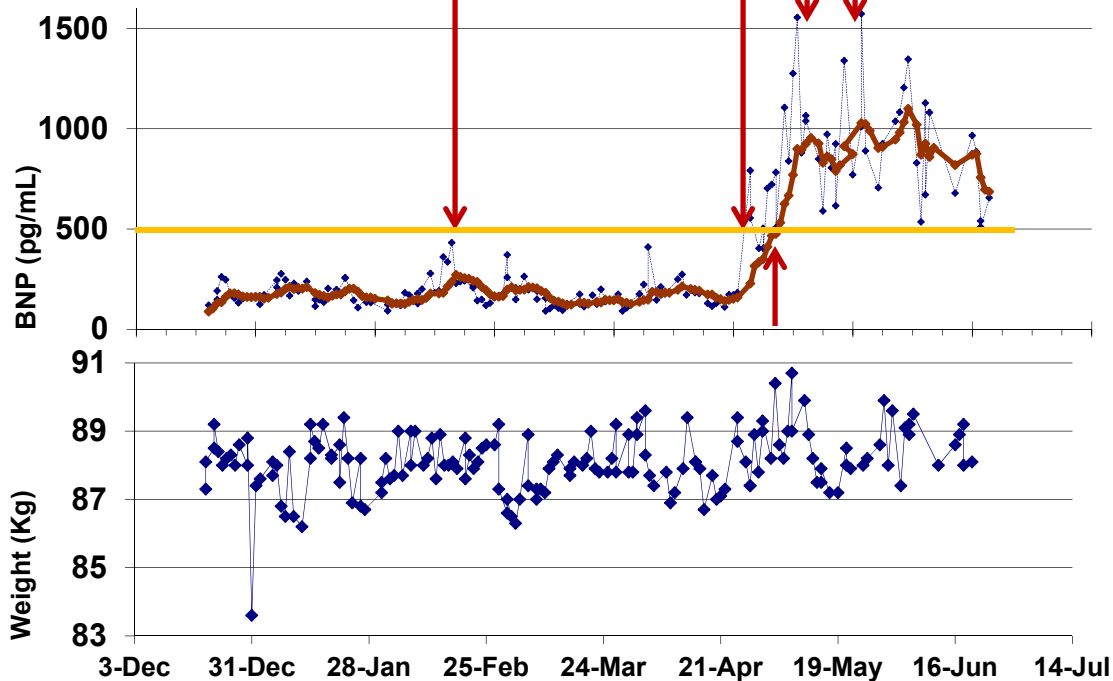


## Clear and rapid rise in BNP

HF Hospitalization  
28-Day Alert  
14-Day Alert  
7-Day Alert



51001: DHM ARM

Outpatient  
Enroll: Dec 15, 2011  
NYHA = II  
54 year old male  
88 kg (194 lbs)  
173 cm (5' 8")  
LVEF = 40%  
Pacemaker  
Prior MI  
Diabetes  
Hyperlipidemia  
Hypertension  
Angina  
CAD  
Non-smoker

### MEDICATION:

CCB – Cartia 100 m  
Digoxin 125 mg  
Warfarin 5 mg  
Simvastatin 80 mg  
Imdur 60 mg  
Nitro spray 400 mg

Loop Diuretic  
Furosemide 160 mg

Thiazide Diuretic  
Dithiazide 12.5 mg

Beta Blocker  
Bisoprolol 2.5 mg

ARB  
Candesartan 4 mg

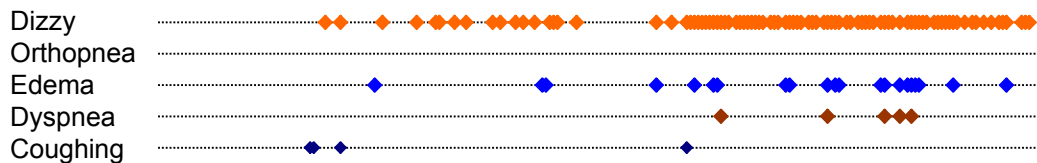
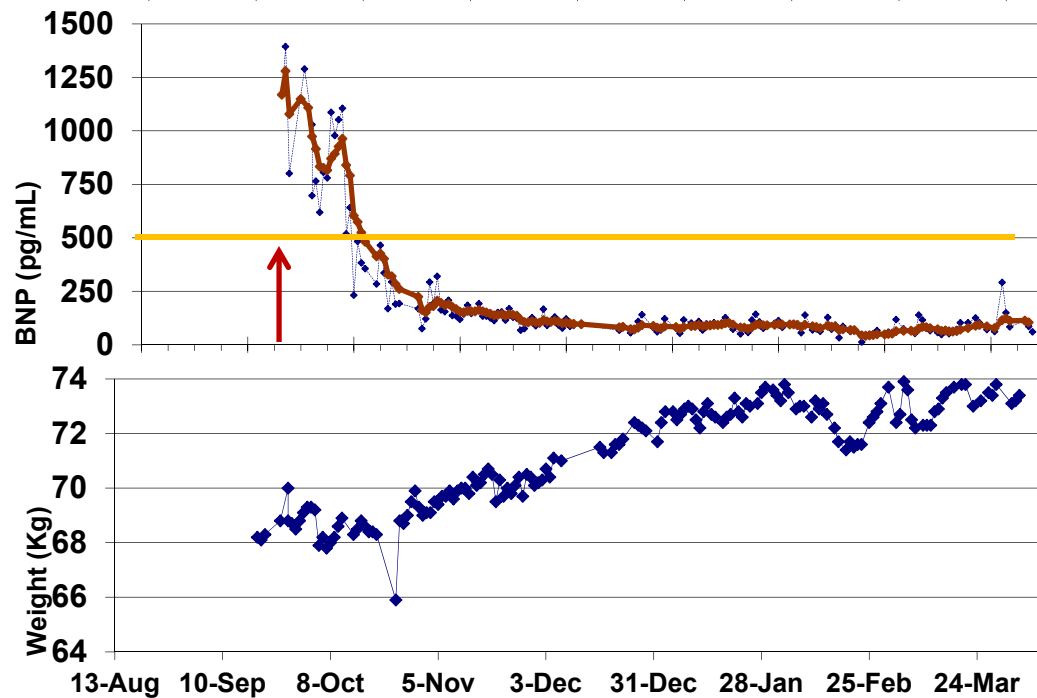
Aldosterone Antagonist  
Spironolactone 12.5

# Clear and sustained decrease in BNP

52007: SOC ARM

IF Hospitalization  
8 Day Alert  
4-Day Alert  
-Day Alert

Hospital  
Enroll: Sept 16, 2011  
NYHA = III  
67 year old female  
75kg (165 lbs)  
150cm (5' 0")  
LVEF = 32%  
Supraventricular  
tachycardia (SVT)  
Diabetes  
Renal insufficiency



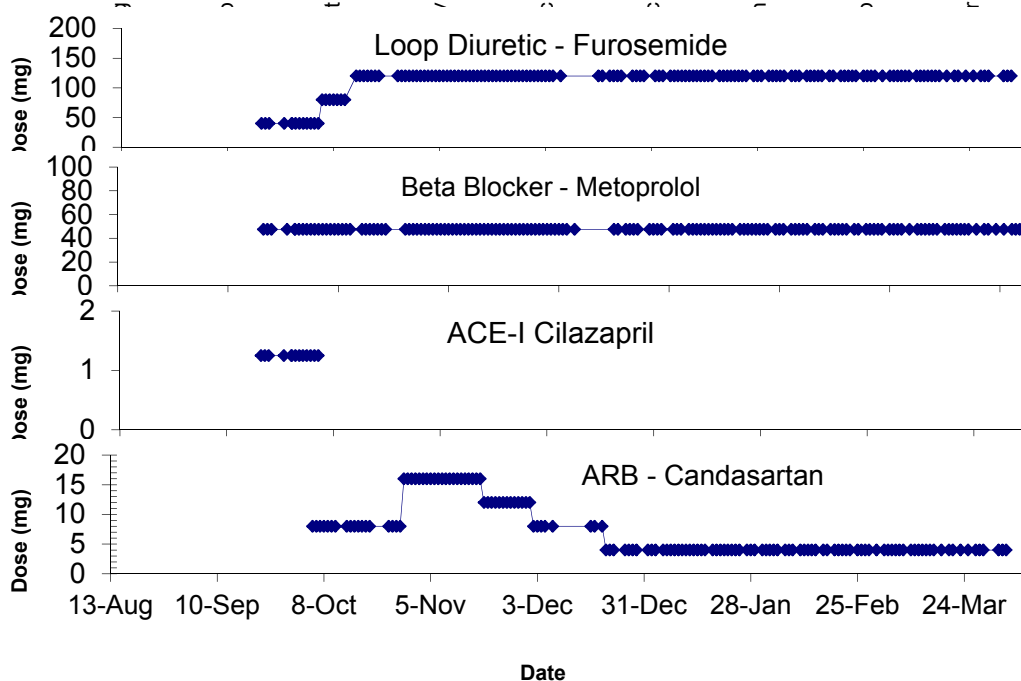
## MEDICATION:

Loop Diuretic  
Furosemide 40-120 mg

Beta Blocker  
Metoprolol 47.5 mg

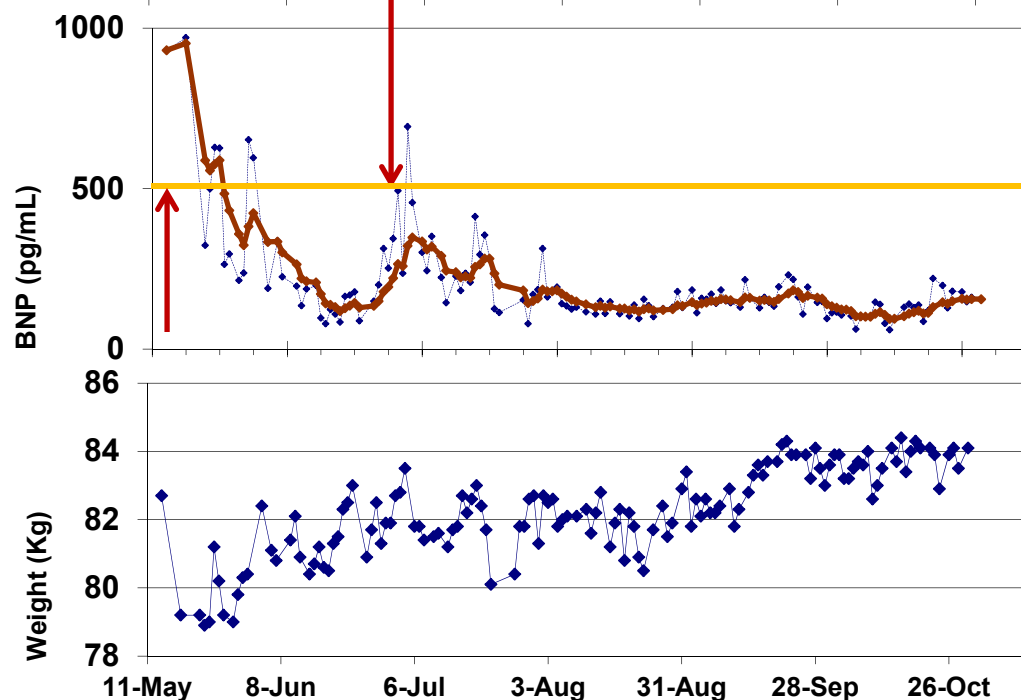
ACE-I  
Cilazapril 1.25 mg

ARB  
Candasartan 4-16 mg

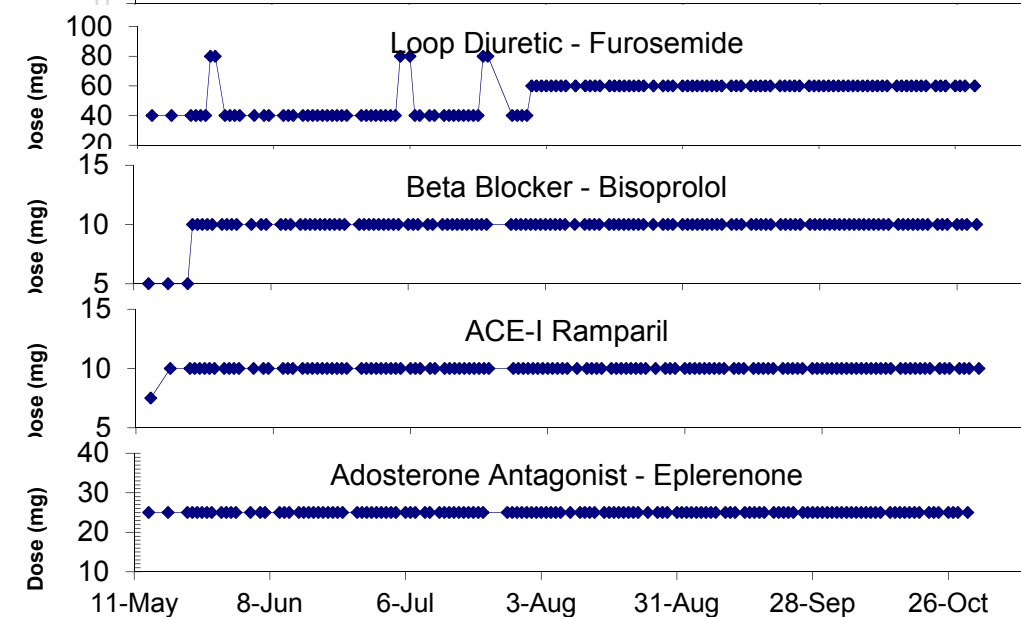


# Rise in BNP following significant decreases

Self Admin. Action Plan  
28 Day Alert  
14-Day Alert  
7-Day Alert



Dizzy  
Orthopnea  
Edema  
Dyspnea  
Coughing



Date

12026: BNP ARM

Outpatient  
Enroll: May 9, 2011  
NYHA = I  
56 year old male  
84kg (184 lbs)  
170 cm (5' 6")  
LVEF = 25%  
Atrial Flutter  
Cardiomyopathy  
Heavy drinker  
Hypertension  
Gout

MEDICATION:

Alprazolam 0.25-0.5 mg  
Escitalopram 5 mg  
Esomeprazole 40 mg  
Warfarin (unk) mg  
Prednisolone 20 mg  
Allopurinol 100 mg  
Colchicine 0.5-1.5 mg

Loop Diuretic  
Furosemide 40-80 mg

Beta Blocker  
Bisoprolol 5-10 mg

ACE-I  
Ramparil 5-10 mg

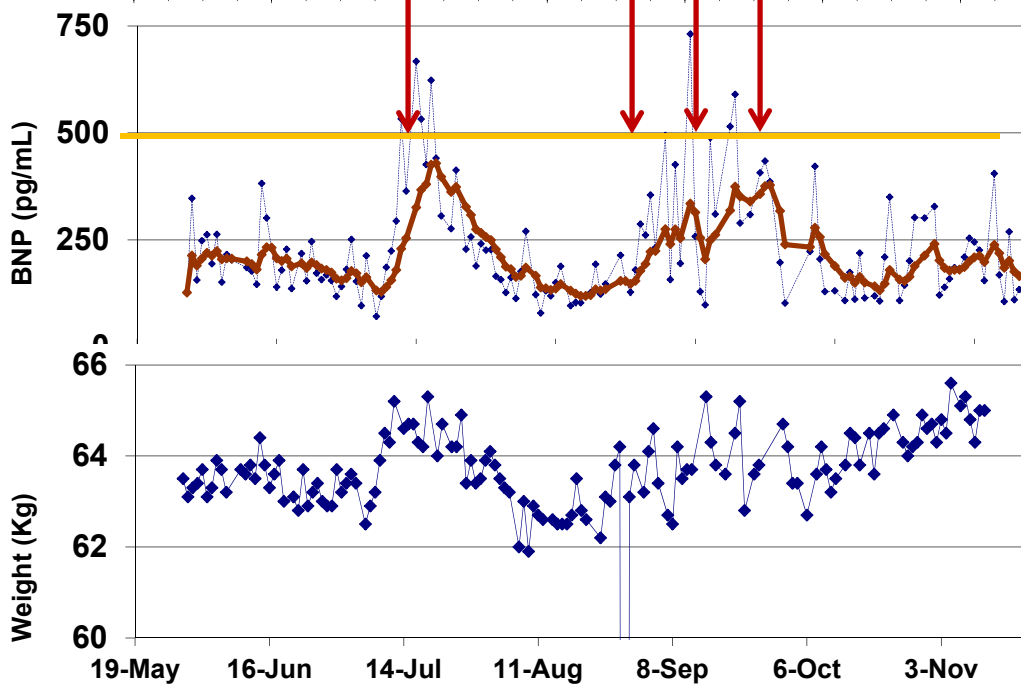
Aldosterone Antagonist  
Elperenone 25 mg

## Rising and falling BNP

49008: SOC ARM

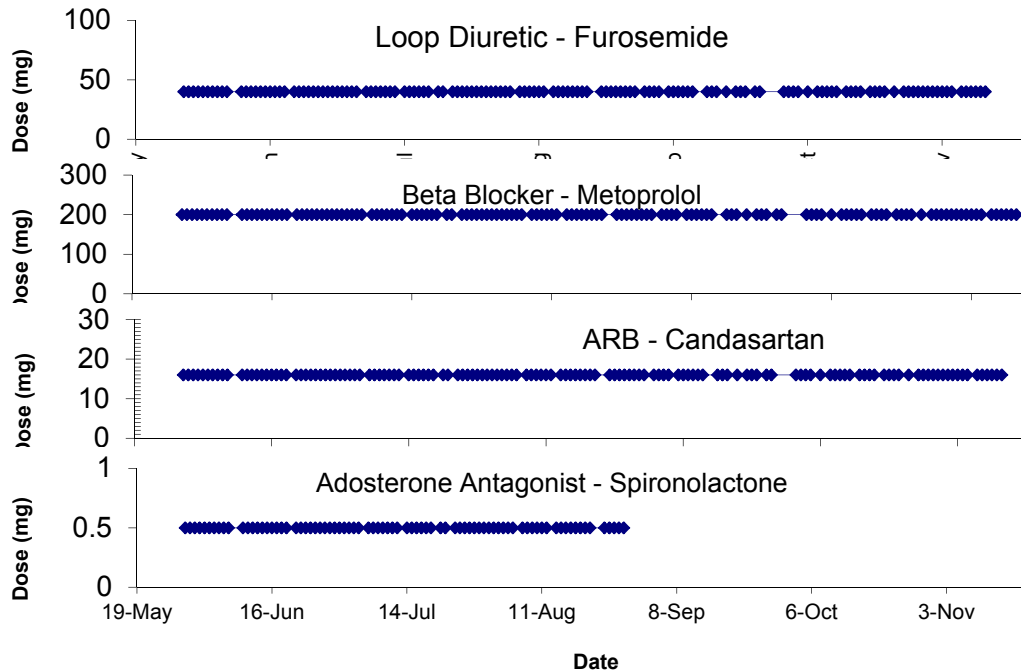
28 Day Alert  
14-Day Alert  
7-Day Alert

Outpatient  
Enroll: May 28, 2012  
NYHA = II  
67 year old female  
64kg (141 lbs)  
175 cm (5' 9")  
LVEF = 25%  
LBBB  
Valvular Disease  
Smoker  
COPD



Dizzy  
Orthopnea  
Edema  
Dyspnea  
Coughing

MEDICATION:  
Warfarin 2.5 mg



Loop Diuretic  
Furosemide 3-5 mg

Beta Blocker  
Metoprolol 200 mg

ARB  
Candesartan 16 mg

Aldosterone Antagonist  
Spironolactone 0.5 mg

## Clear but slower rises in BNP

Hospitalized May 31

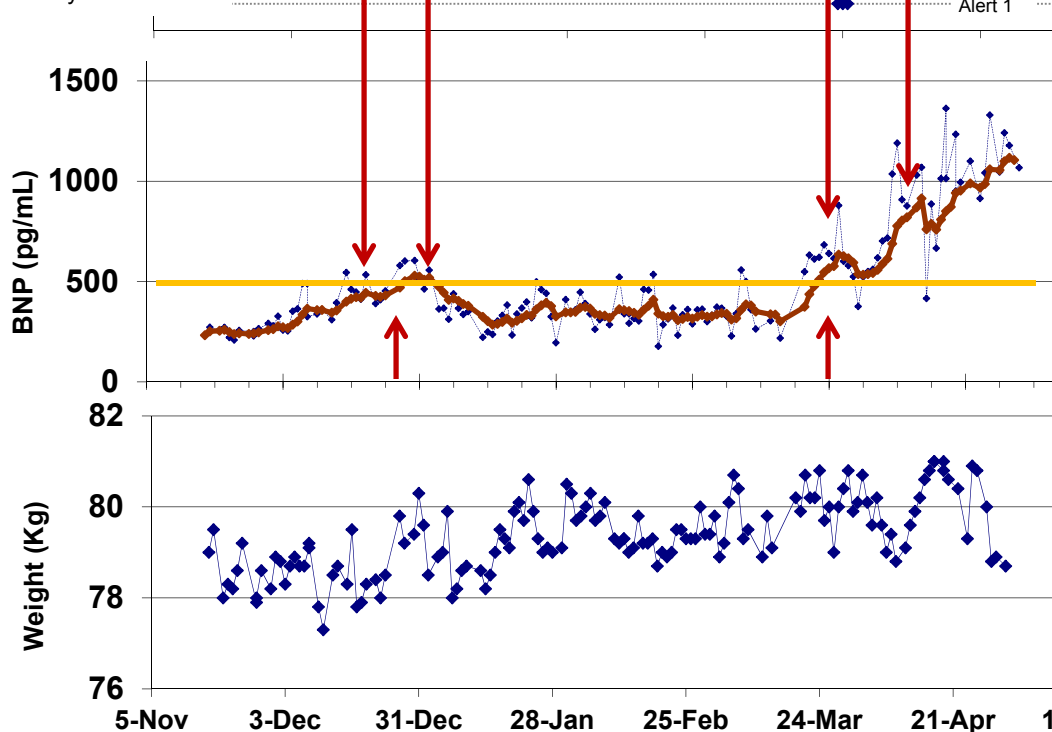
1 month after testing complete

HF Hospitalization

28 Day Alert

14-Day Alert

7-Day Alert



53013: DHM ARM:

Hospitalized

Enroll: Oct 27, 2011

NYHA = II

67 year old male

81kg (178 lbs)

170 cm (5' 6")

LVEF = 30%

prior MI

AFIB

Diabetes

Renal insufficiency

Former smoker

heavy drinker

Hypertension

Angina

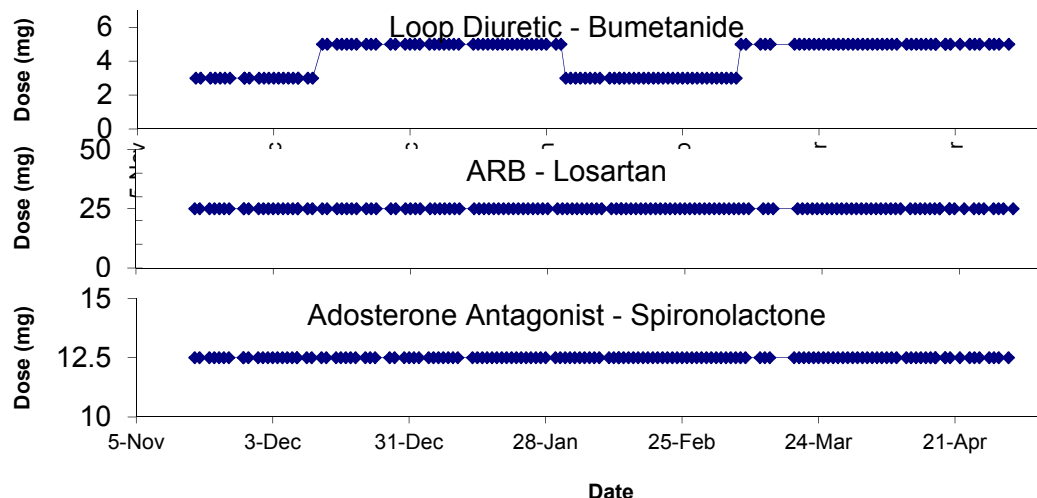
CAD

Dizzy  
Orthopnea  
Edema  
Dyspnea  
Coughing

MEDICATION:

Digoxin 62.5 mg

Diltiazem 180 mg



Loop Diuretic

Bumetanide 3-5 mg

ARB

Losartan 25 mg

Aldosterone Antagonist

Spironolactone 12.5 mg

# Slow rise in BNP over a longer period

## 52012: BNP ARM

HF Hospitalization  
Clinical Decomp  
28 Day Alert  
14-Day Alert  
7-Day Alert

Outpatient  
Enroll: Dec 22, 2011  
NYHA = I  
23 year old male  
72 kg (158 lbs)  
182 cm (5' 11")  
LVEF = 38%  
AFIB  
Valvular disease  
enal insufficiencies  
Non-smoker

Dyspnea, Orthopnea,  
Edema, Congestion;

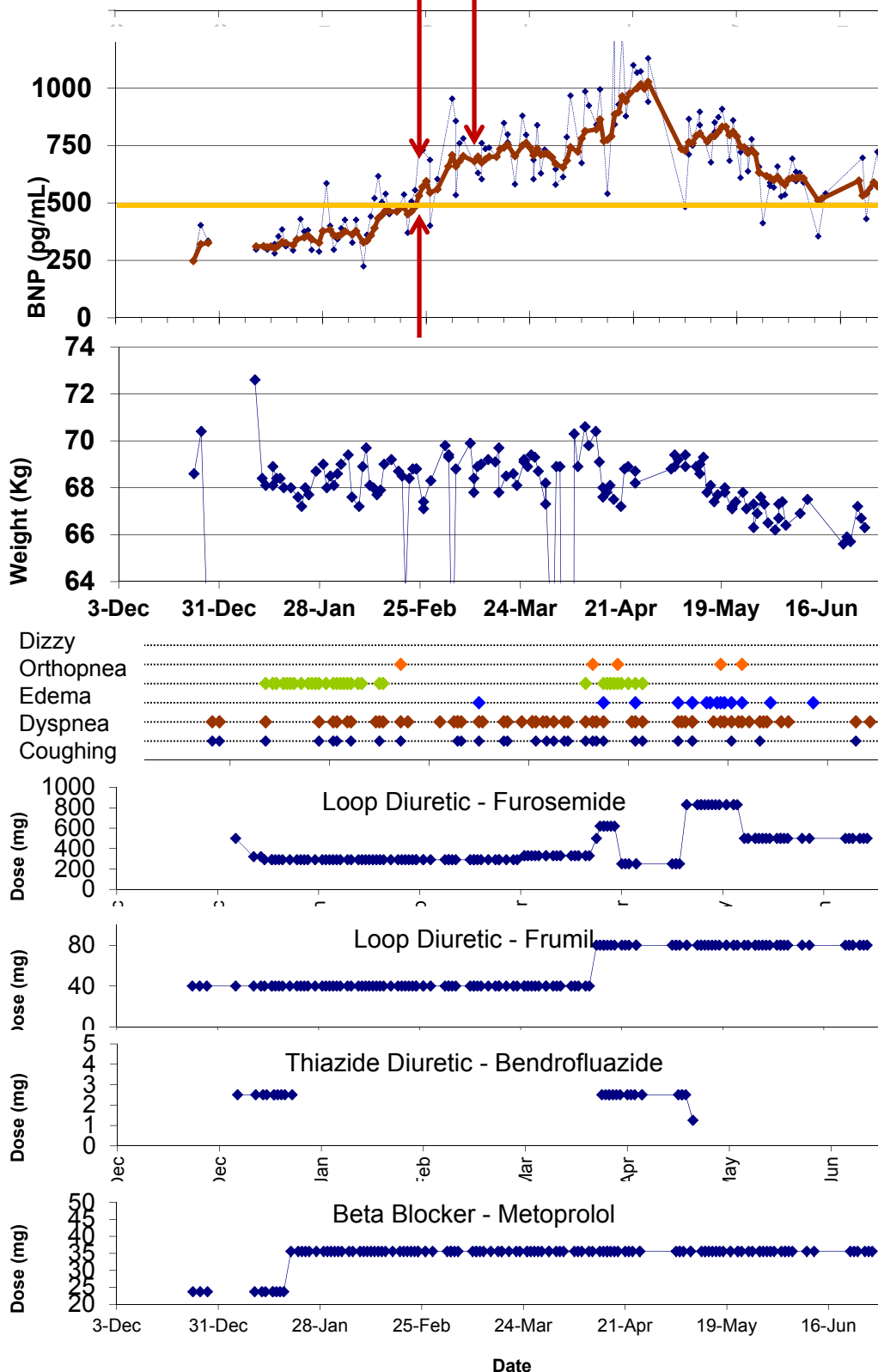
MEDICATION:  
ACE-I Cilazapril 0.5 mg

Loop Diuretic  
Furosemide 250-830 mg

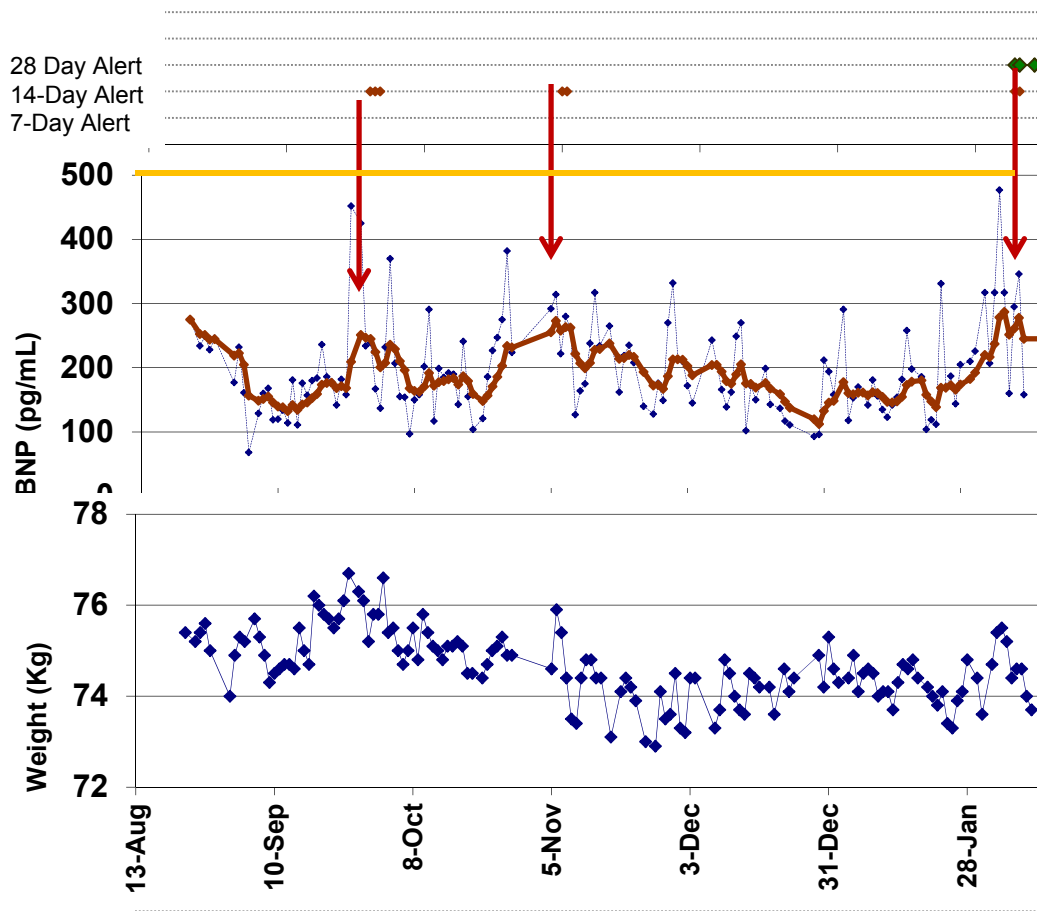
Loop Diuretic (combo)  
Frumil 40-80 mg

Thiazide Diuretic  
Bendrofluazide 1.25-2.5 mg

Beta Blocker  
Metoprolol 23.7-35.6 mg

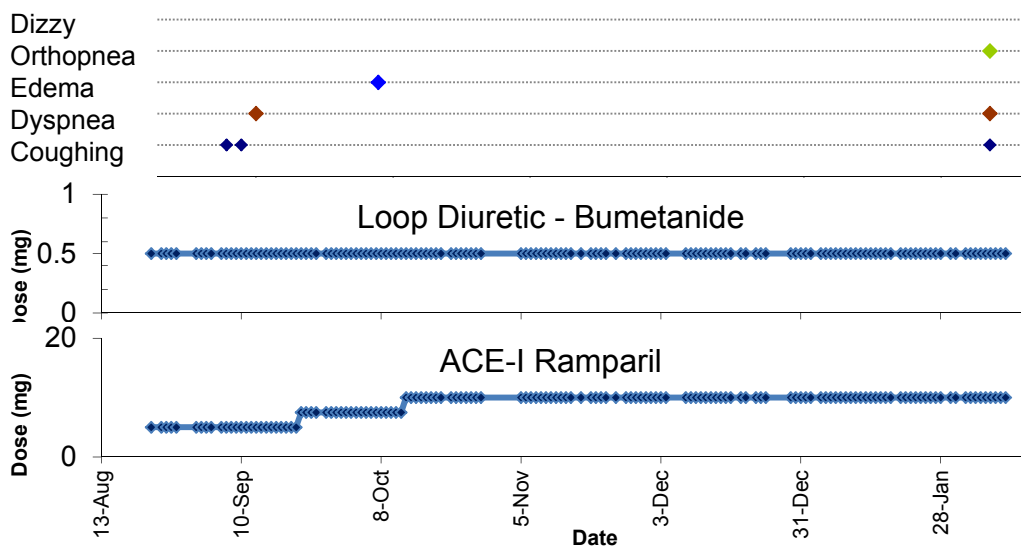


## Minimum detectable rises in BNP



12007: DHM ARM

Hospital  
Enroll: July 17, 2011  
NYHA = I  
57 year old male  
76kg (167 lbs)  
173cm (5' 8")  
LVEF = 40%  
prior MI  
Bradycardia  
Ischemic Heart Disease  
Angina  
CAD



MEDICATION:

Transiderm nitro 5 patch

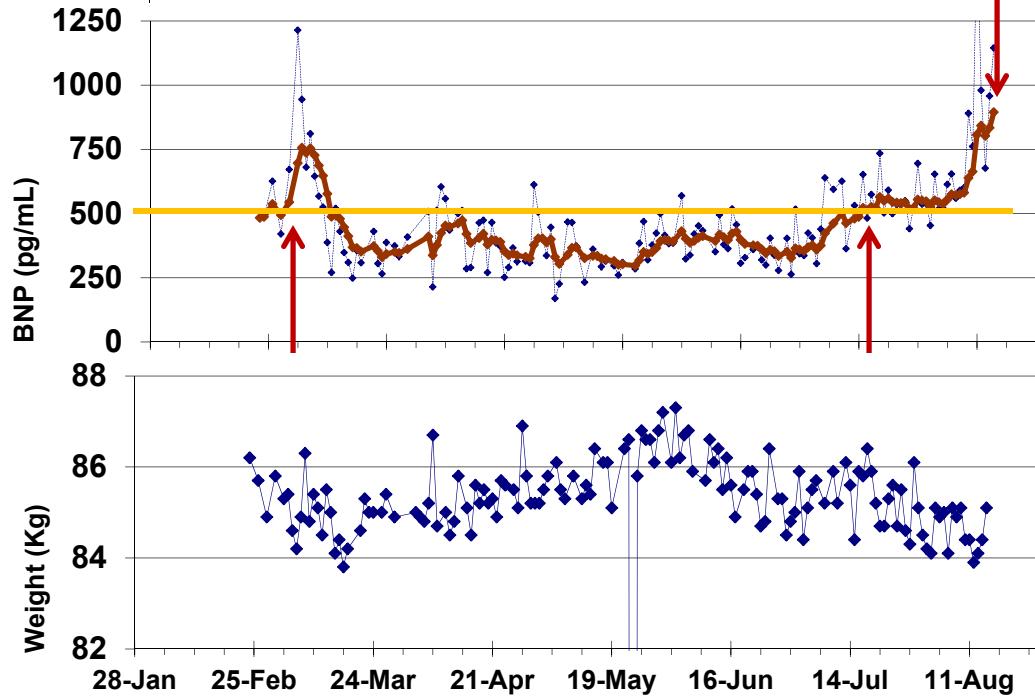
Loop Diuretic  
Bumetanide 0.5mg

ACE-I  
Ramparil 5-10 mg

# Minimum detectable rises in BNP

12015: SOC ARM

28 Day Alert  
14-Day Alert  
7-Day Alert

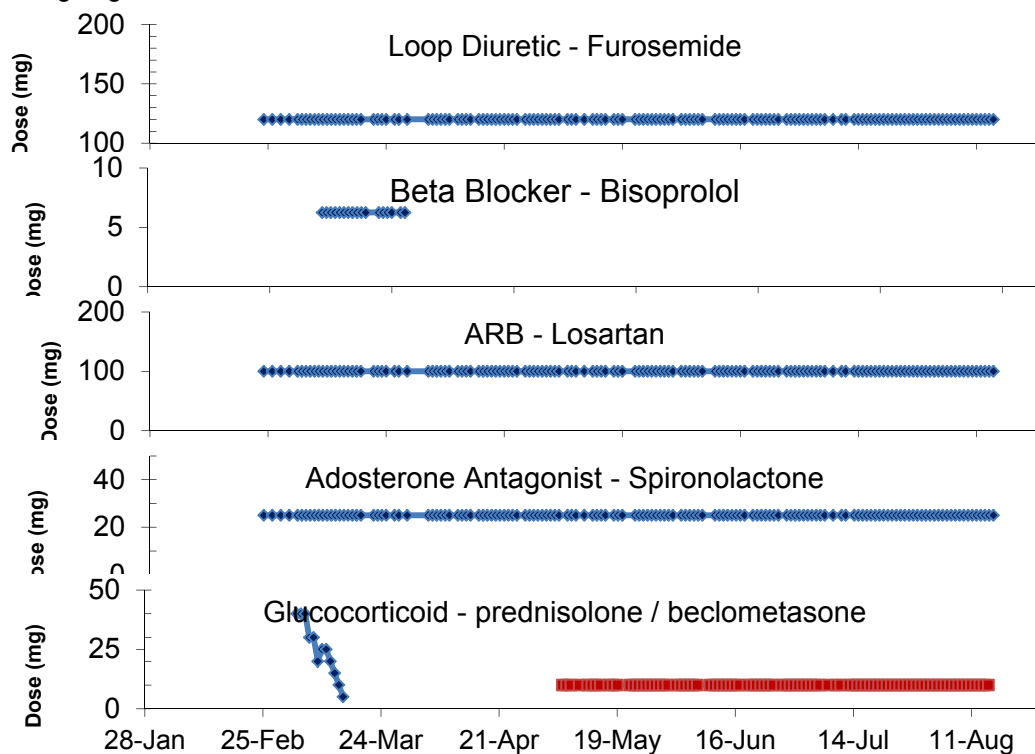


Outpatient  
Enroll: Feb 1, 2012  
NYHA = II  
68 year old male  
87 kg (191 lbs)  
167 cm (5' 5")  
LVEF = 17%  
AFIB  
CRT/ICD  
Cardiomyopathy  
Renal insufficiency  
Heavy drinker

## MEDICATION:

Carbocisteine 45 mg  
Sotalol 160 mg  
(Mar 29-on)  
Salbutamol inhaler  
(May 16-on)

Dizzy  
Orthopnea  
Edema  
Dyspnea  
Coughing



Loop Diuretic  
Furosemide 120 mg

Beta Blocker  
Bisoprolol 6.25 mg

ARB  
Losartan 100 mg

Aldosterone Antagonist  
Spironolactone 25 mg

Glucocorticoids  
Prednisolone 5-40 mg  
Beclometasone (unk)

Date



HF Death

28 Day Alert

14-Day Alert

7-Day Alert

48001: SOC ARM

Outpatient

Enroll: Jan 31, 2012

NYHA = III

61 year old male

109 kg (240 lbs)

165 cm (5' 4")

LVEF = 25%

Prior MI

Valvular Disease

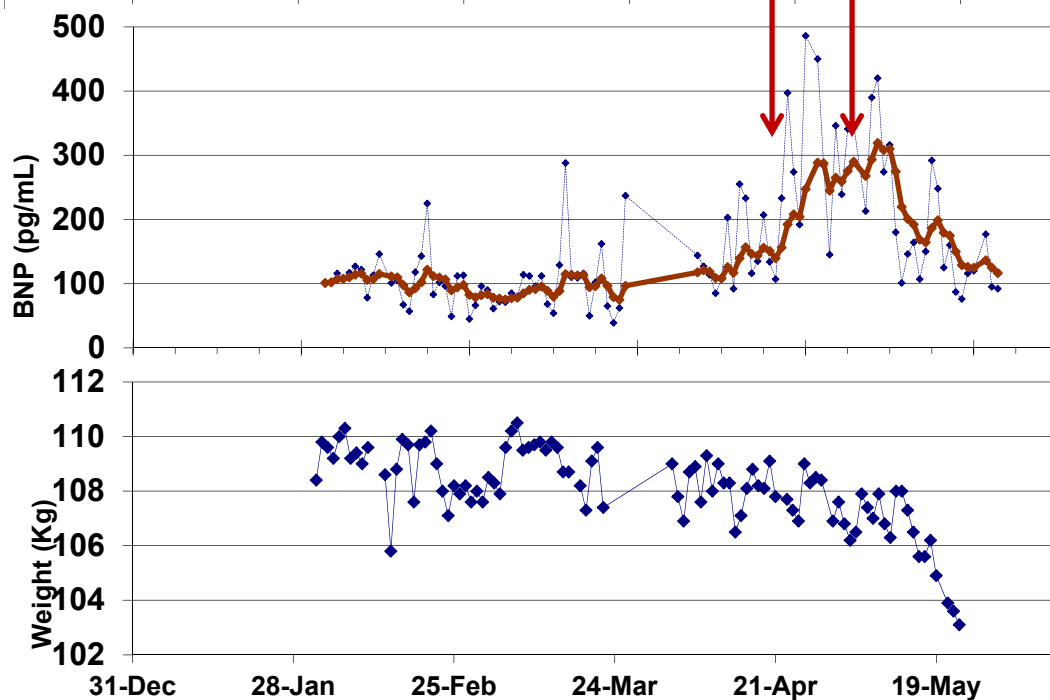
COPD

CABG

Diabetes

CAD

Smoker



MEDICATION:

GNT Spray

Isosoride

Mononitrate 20 mg

Clopidogrel 75 mg

Atorvastatin 40 mg

Loop Diuretic

Bumetanide 2-6mg

Beta Blocker

Bisoprolol 2.5 mg

ACE-I

Enalapril 5 mg

