HYPERTENSION	MANAGEMENT
AMR ZAK	I MD
AMR ZAK	II MD

Female patient aged 42 years, she had 3 pregnancies 3 children youngest 8 years old with no previous history of any health problems, she is menstruating and IUD as contraception.

IN THE LAST 2 YEARS due to spells of headache and undue fatigue desspite of playing sports twice weekly she was diagnosed as having hypertension; investigation at that time showed normal renal function accepted lipid profile with LDL C 103 mg HDL C 65 mg.

At that time perindopril /amlodipine 5/5mg was prescribed for a BP of 180/115. and assuring healthy diet which was already the case.

SIX months later, still symptoms occur from time to time BP was 160/100 ,LDL C 95 ,mg AMLODIPNIE/ PERINDOPREL INCREASED TO 10/10. THREE Months again, tachypalpitation , edema LL AND SPORADIC COUGH occurred and still patient co of fatigue.

WHAT TO DO???

WHAT TO ADD NEXT ??

DO WE NEED FURHTUR INVESTIGATION ???

BP WAS 150/95 , HOLTER SHOWED normal sinus rhythm spells of sinus tachycardia reaching 106 / min , STRESS EXERCISE was negative for induction of ischemia nor arrhythmias . ECHO SHOWED mild LVH, and normal LV systolic function .

NORMAL thyroid function . HB = $13.6 \ gm$. Normal other lab tests including electrolytes negative VMA.

WHAT IS THE NEXT STEPS

- 1- ADD BB
- 2—ADD DIURETIC ??
- 3- CHANGE PREVIOUS MEDICATIONS ??

VALS	ARTAN 320/25. AND BISPROLOL 5 MG once a day were prescribed .
UP TO	WEEKS AGAIN; dyspnea & Easy fatigue but edema disappeared BP CAME O 150/100 . RESTING HR =84/min. nt symptoms prohibited her from three times a week doing sport.

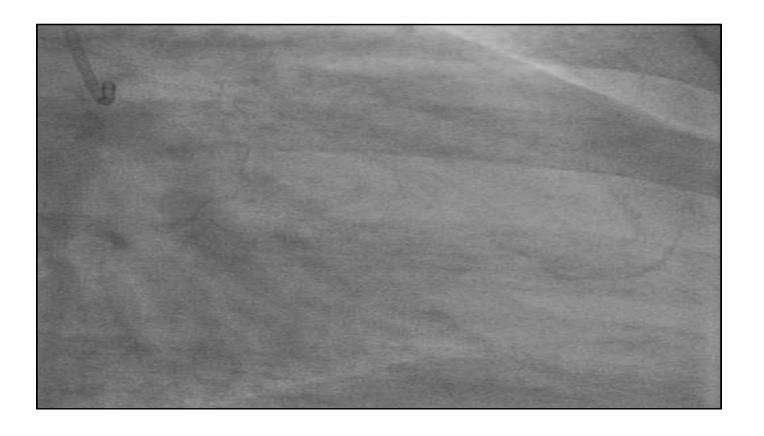
what to do???

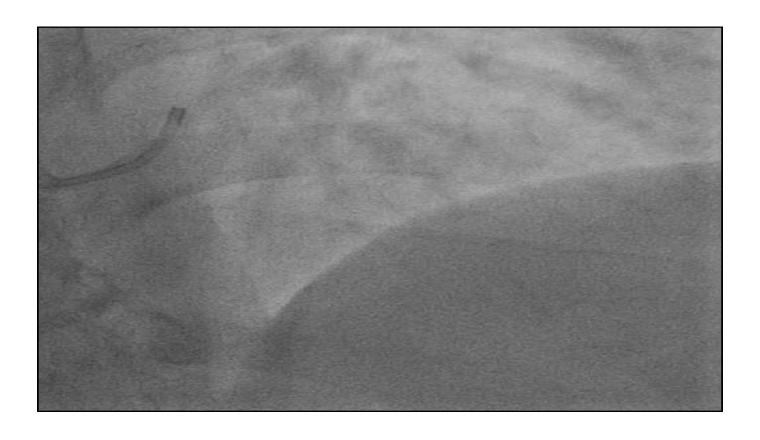
BB WAS REPLACED BY LONG ACTING VERAPAMIL 240 MG.

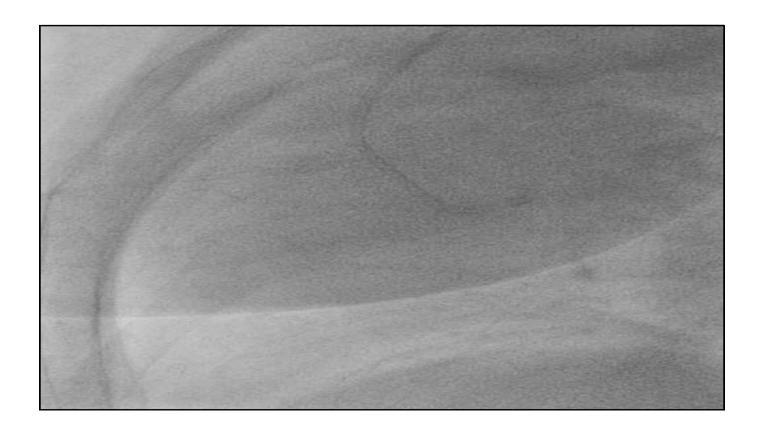
TWO MONTHS LATER

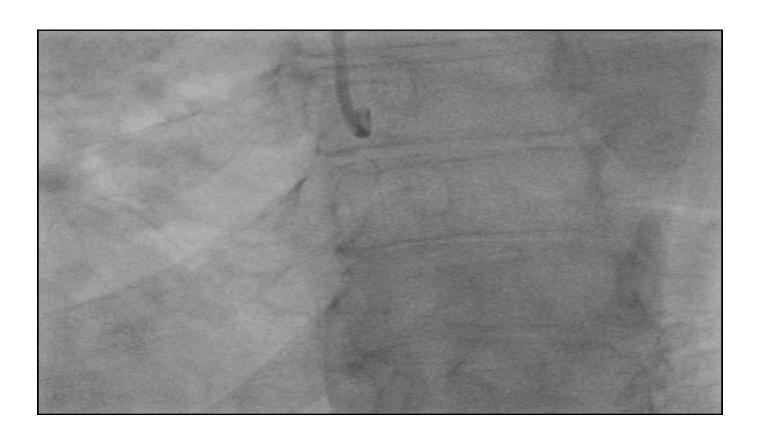
PROGRESSIVE DYSPNEA. Chest tightness occurred due to stressful condition and 48 hrs later our lady was admitted to ER WITH BREATHLESSNESS , pulmonary edema was the case .

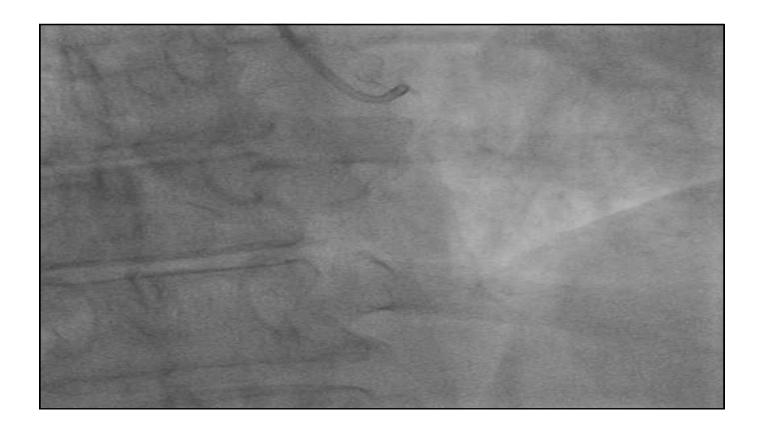
ECG SHOWED SINUS TACHYCARDIA HR 124b/min . Poor progression of r in precordial leads .elevated cardiac enzymes.













HOW COULD WE MANAGE NOW ??

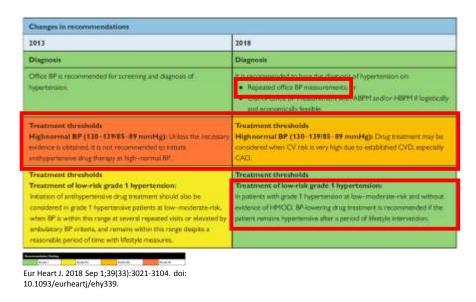
2018 ESC-ESH Guidelines for The Management of Arterial Hypertension

Eur Heart J. 2018 Sep 1;39(33):3021-3104. doi: 10.1093/eurheartj/ehy339.

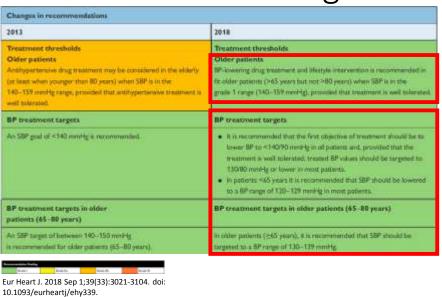
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2013 Vso 2018: What Changed?

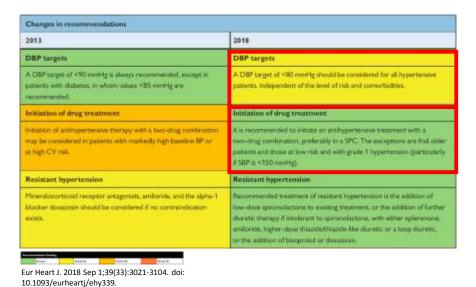
2013 Vs 2018: What Changed?



2013 Vs 2018: What Changed?



2013 Vs 2018: What Changed?



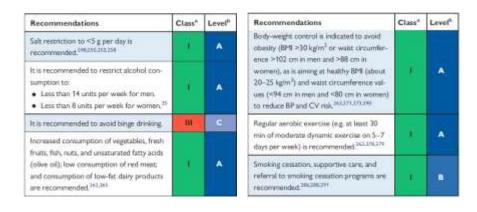
Classifications

Category	Systolic (mmHg)		Diastolic (mmHg)
Optivial	≤120	and	<80
Normal	120-129	and/or	80-94
High normal	130-139	and/or	85-89
Grade 1 hypertension	140-159	and/or	90-99
Grade 2 hypertension	160-179	and/or	100-109
Grade 3 hypertension	≥180	and/or	≥110
Isolated systolic hypertension ^b	≥140	and	<90

86 ** Bood pressure, Ser ** systems thoog pressure. The cangony is defined according to seated clinic BP and by the highest level of BP, whether systolic or disatolic. "Solated systolic hypertention is graded 1, 2, or 3 according to SBP values in the ranges indicated. The same classification is used for all ages from 16 years.

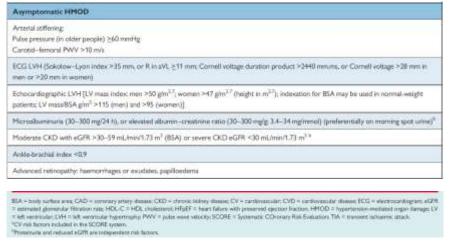
Eur Heart J. 2018 Sep 1;39(33):3021-3104. doi: 10.1093/eurheartj/ehy339.

Lifestyle Interventions for Patients with Hypertension or High-normal BP



BMI = body mass index; BP = blood pressure; CV = cardiovascular. Eur Heart J. 2018 Sep 1;39(33):3021-3104. doi: 10.1093/eurheartj/ehy339.

Factors Influencing Cardiovascular Risk in Patients with Hypertension



Eur Heart J. 2018 Sep 1;39(33):3021-3104. doi: 10.1093/eurheartj/ehy339.

