



Ech_Echo_Pvw	13.0	10.0		12.0	14.0	11.0	11.0	12.0	10.0
Ech_Echo_LA	43.0	36.0	44.0	44.0	43.0	34.0	37.0		42.0
Ech_Echo_LA_Vol	60.0	96.0	75.0	88.0	89.0	85.0	89.0	78.0	75.0
Ech_Echo_LVEF	62.0	66.0	60.0	67.0	68.0	83.0	75.0	67.0	63.0
Ech_Echo_Max_LVT	26.0	22.0	28.0	15.0	15.0	12.0	13.0	13.0	13.0
Ech_Echo_LVIDd	42.0	44.0	49.0	49.0	49.0	55.0	54.0	57.0	52.0
Ech_Echo_LVIDs	21.0		32.0	28.0	20.0	24.0	26.0	24.0	27.0
Ech_Mitral_Regurg_Grade					2.0	1.0			
Ech_Tricuspid_Regurg_Grade									
Ech_doppler_LVOTO_Provocation	5.0								
Ech_doppler_LVOTO_Rest	5.0	50.0	22.0	6.0	13.0		60.0		53.0
Ech_doppler_Mitral_Valve_E_DT		320.0	190.0	180.0	196.0	205.0	204.0	188.0	
CRE_Value									
HGB_Value									
NTBNP_Value								187.4	187.4
CMR_CMR_LV_Mass	236.0	236.0	236.0	239.0	239.0	239.0	239.0		
CMR_GD_Del_Enhance	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
CMR_CMR_LVSV	93.0	93.0	93.0	102.2	102.2	102.2	102.2		
CMR_CMR_RVSV									

Events:

Diagnosis_Date	Diagnosis
24.09.2017	MYECTOMY

Medications:

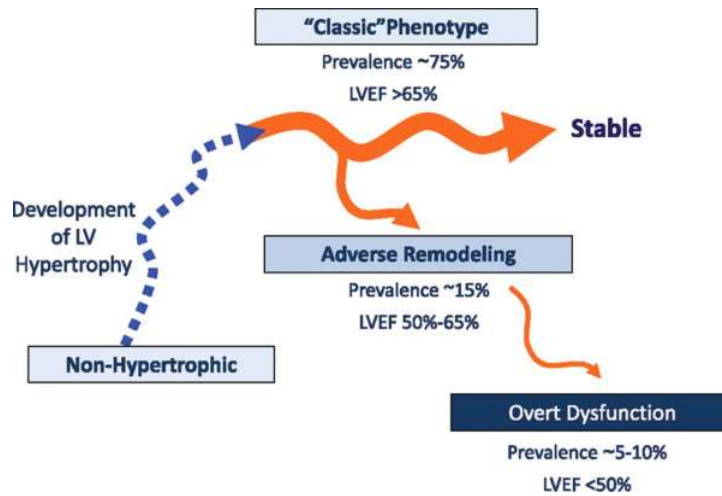
Med_Name	Med_Start_Date	Med_Stop_Date
NADOLOLO	09.08.2017	04.09.2018



Target parameter: LVIDs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Target parameter: NYHA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Task #3 - status in 10 years

Based on the current clinical picture and past data (in the previous section), predict the patients' status: in which of the **three branches (stable, adverse remodeling, overt dysfunction)** will each patient be in 10 years.



- Stable
- Adverse remodeling
- Overt dysfunction

## Task #4 - prediction explanation

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Determine whether clinical parameters in question increase or decrease the predicted value for target parameters (LA, LVEF, LVIDd, LVIDs, NYHA, LA\_Vol) in 10 years after the current state.

---

1. The current value of the clinical parameter *Ech\_Echo\_LA* will cause a decrease of the predicted value of the target parameter *LA*.

- True
  - False
- 

2. The current value of the clinical parameter *ECG\_QRS* will cause an increase of the predicted value of the target parameter *LVEF*.

- True
  - False
- 

3. The current value of the clinical parameter *Ech\_Echo\_LVIDd* will cause an increase of the predicted value of the target parameter *LVIDs*.

- True
  - False
- 

4. The current value of the clinical parameter *Age* will cause an increase of the predicted value of the target parameter *NYHA*.

- True
- False

## Optional supplement - Full patient data

Measurements:

Encounter_Date	Age	Gender	Weight	Height	BMI	BSA	Primary_Diagnosis	NYHA	FHx_DCM	FHx_HCM	FHx_SCD	FHx_CAD	Diagnosis_DIABETES	Dia
03.07.2017	31.390104	MALE	74.0	170.0	25.6	1.87	HCM	3.0	0.0	0.0	0.0	0.0	0.0	0.0
08.08.2017	31.488668	MALE	74.0	170.0	25.6	1.87	HCM	3.0	0.0	0.0	0.0	0.0	0.0	0.0
02.10.2017	31.639253	MALE	74.0	170.0	25.6	1.87	HCM	2.0	0.0	0.0	0.0	0.0	0.0	0.0
19.10.2017	31.685798	MALE	74.0	170.0	25.6	1.87	HCM	1.0	0.0	0.0	0.0	0.0	0.0	0.0
28.12.2017	31.877451	MALE	73.0	170.0	25.3	1.86	HCM	1.0	0.0	0.0	0.0	0.0	0.0	0.0
30.08.2018	32.548238	MALE	73.0	170.0	25.3	1.86	HCM		0.0	0.0	0.0	0.0	0.0	0.0
27.12.2018	32.874049	MALE	73.0	170.0	25.3	1.86	HCM	1.0	0.0	0.0	0.0	0.0	0.0	0.0
08.01.2020	33.906240	MALE	75.0	170.0	26.0	1.88	HCM	1.0	0.0	0.0	0.0	0.0	0.0	0.0
20.07.2020	34.437394	MALE	87.0	170.0	30.1	2.03	HCM	2.0	0.0	0.0	0.0	0.0	0.0	0.0

Events:

Diagnosis_Date	Diagnosis
24.09.2017	MYECTOMY

Medications:

Med_Name	Med_Start_Date	Med_Stop_Date
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NADOLOLO	09.08.2017	04.09.2018
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