Treatment of heart failure can decrease the risk of stroke - contra

Educational Workshop on Stroke, Prague

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Heart Failure does increase risk of stroke, but........

HF is a highly heterogenous clinical syndrome resulting from multiple cardiovascular diseases

HF is highly prevalent and age dependent

HF is frequently associated with multiple co-morbidities and other independent stroke risk factors

Stroke risk is highly dependent on degree of systolic LV-Dysfunction in patients with HFREF

HF and Atrial fibrillation; *Brothers in Arms*
HF is a highly heterogenous clinical syndrome...

<table>
<thead>
<tr>
<th>Systolic dysfunction</th>
<th>Left-sided heart failure</th>
<th>Right-sided heart failure</th>
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| Impaired ventricular contractility | • Myocardial infarction, or transient myocardial ischemia  
• Chronic volume overload (mitral or aortic regurgitation)  
• Dilated cardiomyopathy (see cardiomyopathy chapter for etiology of dilated cardiomyopathy) | • Myocardial infarction, or transient myocardial ischemia  
• Chronic volume overload (tricuspid or pulmonic regurgitation)  
• Dilated cardiomyopathy |
| Increased afterload | • Uncontrolled systemic hypertension  
• Aortic stenosis | • Uncontrolled pulmonary hypertension  
• Pulmonic stenosis  
• Chronic obstructive pulmonary disease (COPD)  
• Interstitial lung disease  
• Acute respiratory distress syndrome (ARDS)  
• Chronic lung infection or bronchiectasis  
• Pulmonary embolism |
| Diastolic dysfunction | • Ventricular hypertrophy  
• Cardiomyopathy (hypertrophic or restrictive)  
• Transient myocardial ischemia | |
| Impaired ventricular relaxation | | |
| Impaired ventricular filling | • Mitral stenosis  
• Pericardial constriction or tamponade | • Tricuspid stenosis  
• Pericardial constriction or tamponade |
HF is highly prevalent and age dependent

https://www.medicographia.com/2012/02/the-heart-failure-epidemic/
HFREF is frequently associated with multiple co-morbidities and other independent stroke risk factors.
HFPEF is frequently associated with multiple co-morbidities and other independent stroke risk factors.

Mesquito ET et al. http://dx.doi.org/10.5935/abc.20140062
Stroke risk in HFREF is highly dependent on degree of LV – dysfunction
HF and Atrial fibrillation; Cycle of Interdependence

Kotecha D, Piccini JP, Eur Heart J, 2015;36, 3250–3257
HF and Atrial fibrillation; Cycle of Interdependence

Kotecha D, Piccini JP, Eur Heart J, 2015;36, 3250–3257
Heart Failure does increase risk of stroke, but..........

... risk of patients with HF depends on a number of associated factors and requires individual assessment.