Antithrombotic Therapy in Chronic Heart Failure

STUDY	METHODS	RESULTS/CONCLUSIONS
SOLVD ² : 6,513 patients with left ventricular dysfunction from the Studies of Left Ventricular Dysfunction trial who had LVEF≤35% and NYHA class I-IV WASH ³ : 279 CHF patients with left ventricular systolic dysfunction and LVEF ≤35%	 warfarin nonusers, leading to significant differences in baseline characteristics, specifically a diagnosis of atrial fibrillation Primary endpoints were occurrence of death and length of survival Secondary endpoints were hospitalization for unstable angina and nonfatal MI Patients received warfarin (target INR 2.5), aspirin (300mg/day) or placebo Primary endpoints were death, nonfatal stroke and nonfatal MI 	 <u>deaths</u> due to stroke, pulmonary embolism or other vascular causes when comparing to the warfarin nonusers Significant decrease in overall death in patients taking warfarin at baseline but diagnosis of atrial fibrillation clouds this conclusion <u>No significant difference</u> in primary endpoints among treatment groups Patients taking aspirin more likely
HELAS ⁴ :	 Secondary endpoints were death, hospitalizations and worsening heart failure Patients received warfarin (target INR 	 to be hospitalized for cardiovascular reasons than those in other treatment groups Anticoagulant or antiplatelet
194 heart failure patients with NYHA class II-IV and LVEF <35%	 Patients received warrann (target link 2-3), aspirin (325mg/day), or placebo Primary endpoints were occurrence of non-fatal stroke, VTE, MI, re- hospitalization, exacerbation of heart failure or death from any cause 	 Anticoaguiant or antiplatelet treatment <u>does not have an</u> <u>effect</u> on incidence of thromboembolic events
WATCH ⁵ : 1,587 heart failure patients in sinus rhythm, NYHA class II-IV and LVEF ≤35%	 Patients received warfarin (target INR 2.5-3), aspirin (162mg/day) or clopidogrel (75mg/day) Primary endpoints were composite of all-cause mortality, nonfatal stroke, and nonfatal MI Secondary endpoints were all-cause mortality, nonfatal stroke, nonfatal MI, and hospitalizations for heart failure 	 <u>No significant difference</u> in primary endpoints among treatment groups Patients taking aspirin were more likely to be hospitalized for worsening heart failure than those receiving warfarin
WARCEF ⁶ : 2,305 patients with left ventricular EF ≤35% who did not have atrial fibrillation or mechanical prosthetic heart valves	 Patients received warfarin (INR 2.5– 3.0, target 2.75) or aspirin (325mg/day) Primary outcomes were time to first occurrence in a composite endpoint of death, ischemic stroke or intracerebral hemorrhage Secondary endpoints were first event in a composite of the primary outcome, myocardial infarction, or hospitalization for heart failure 	 <u>No significant difference</u> seen in the primary or secondary outcomes Significant reduction in ischemic stroke among those on warfarin vs. aspirin, offset by risk of major hemorrhage being significantly higher with warfarin

Table 1. Summary of Evidence