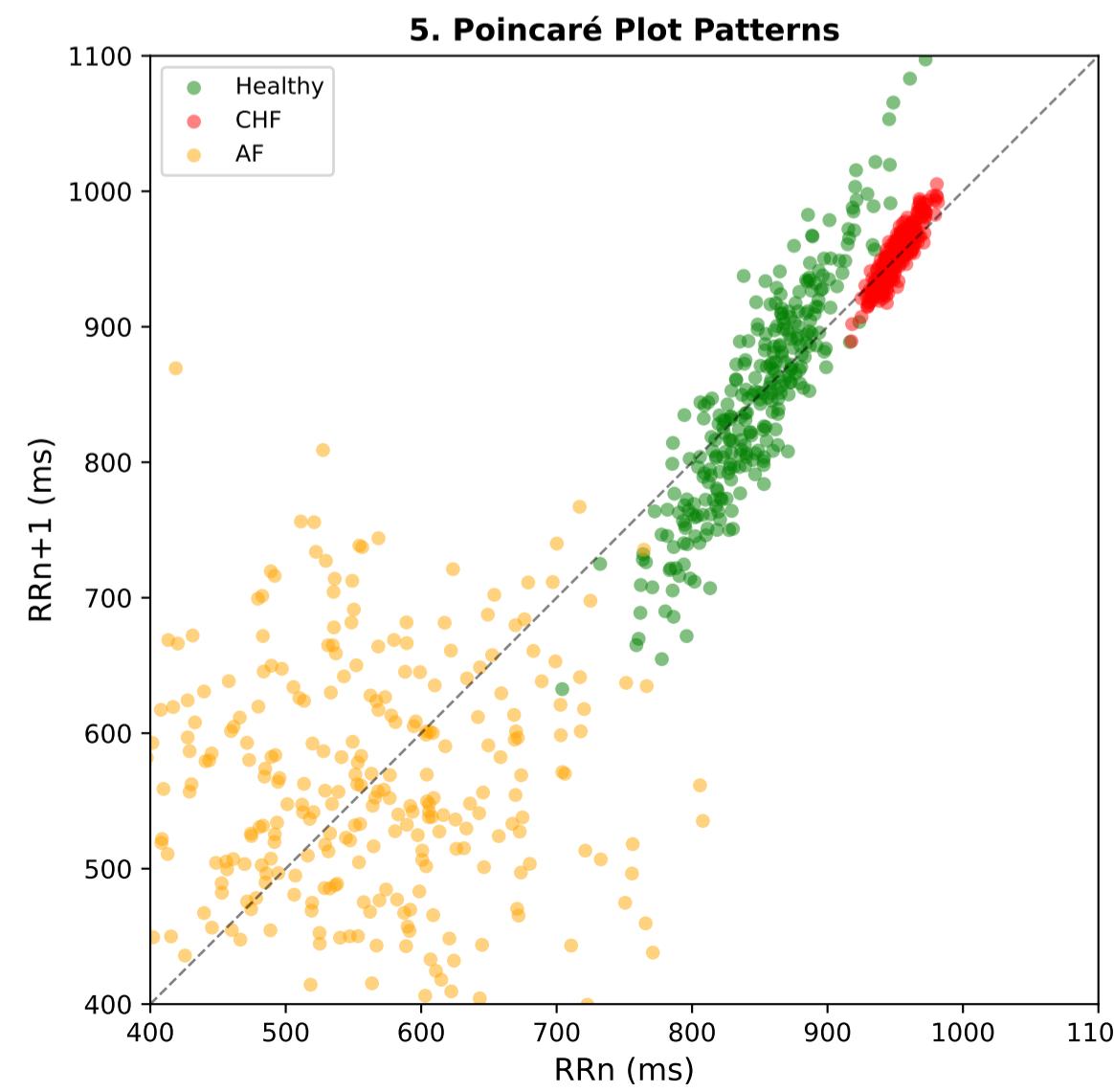
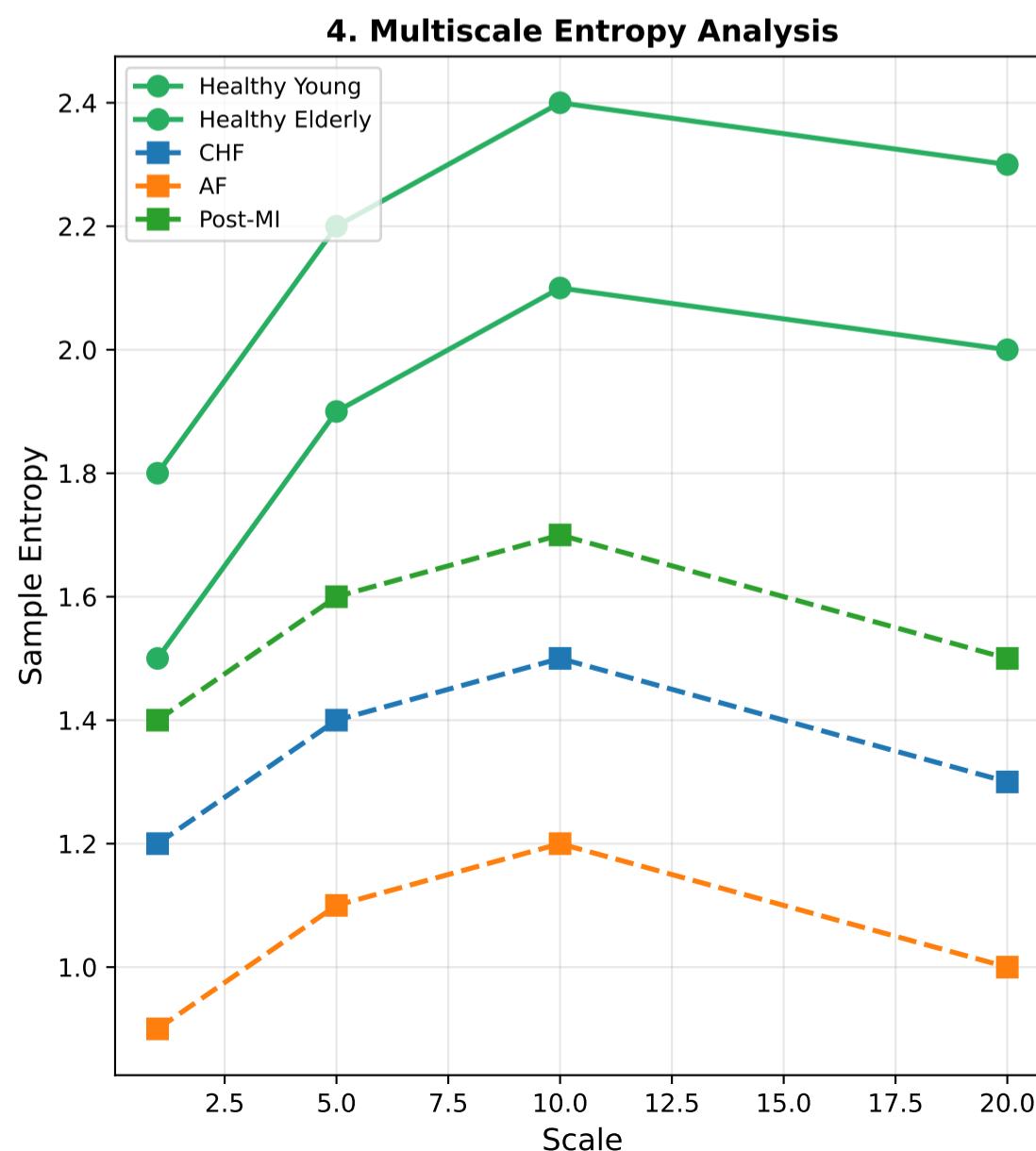
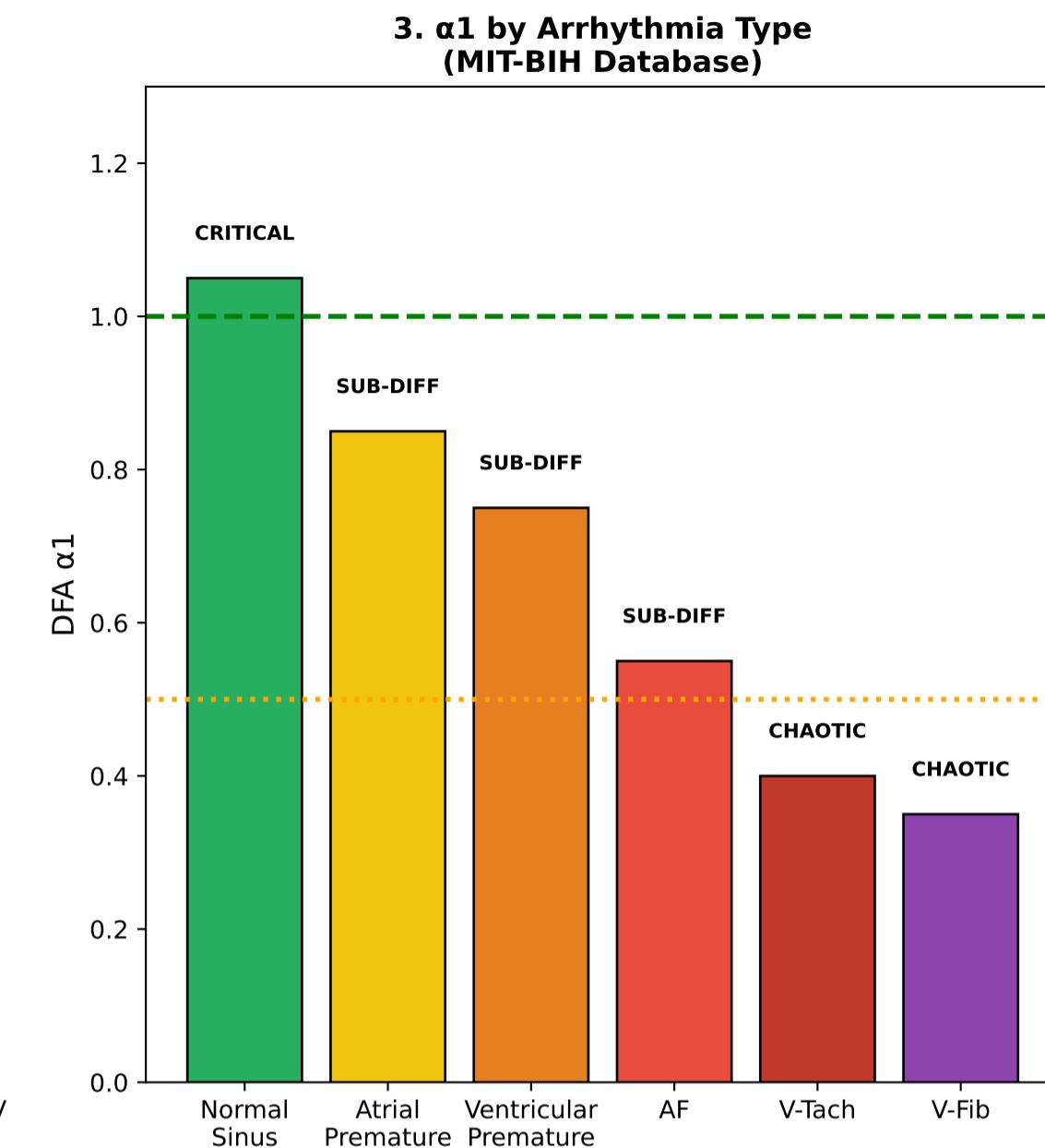
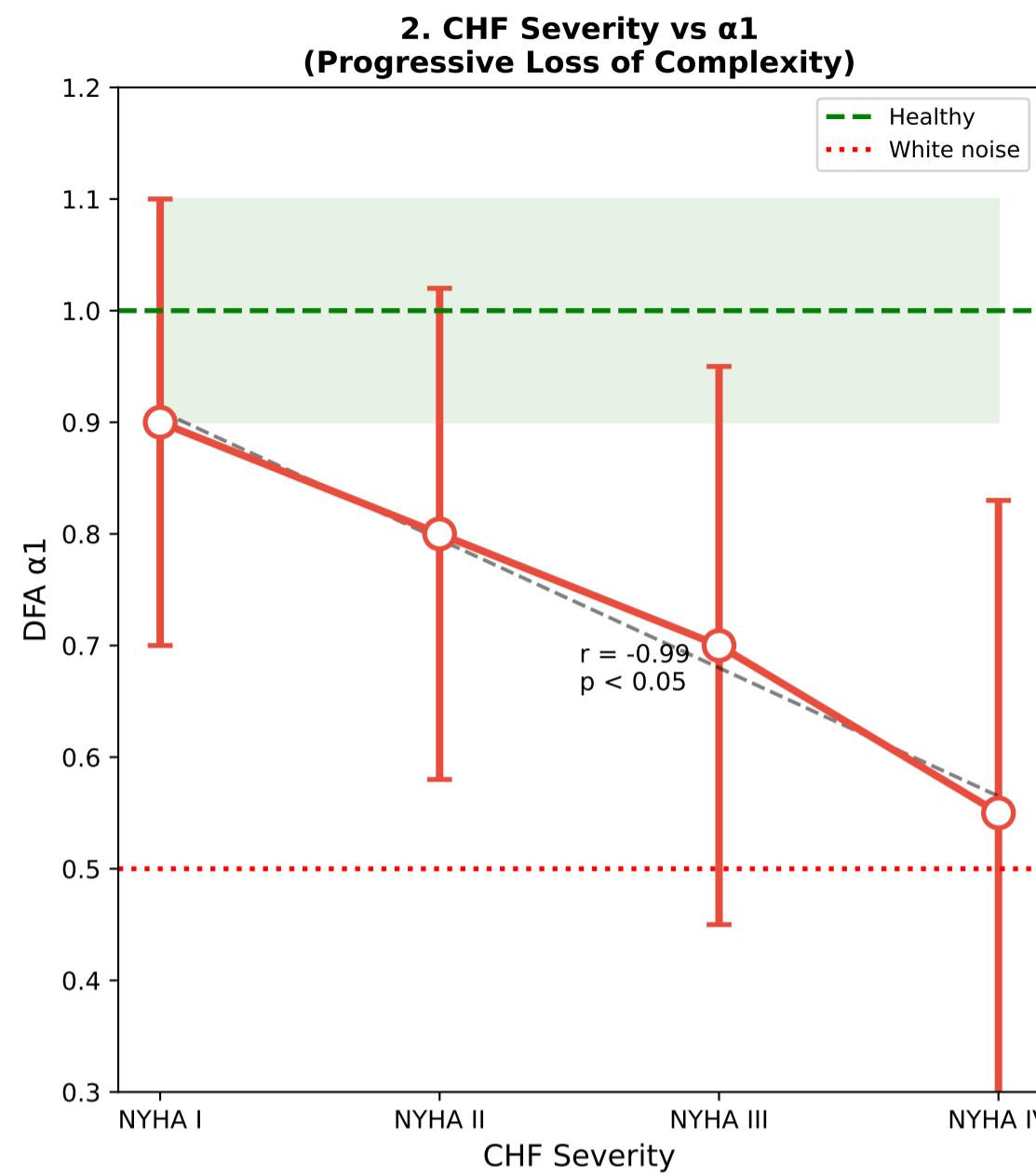
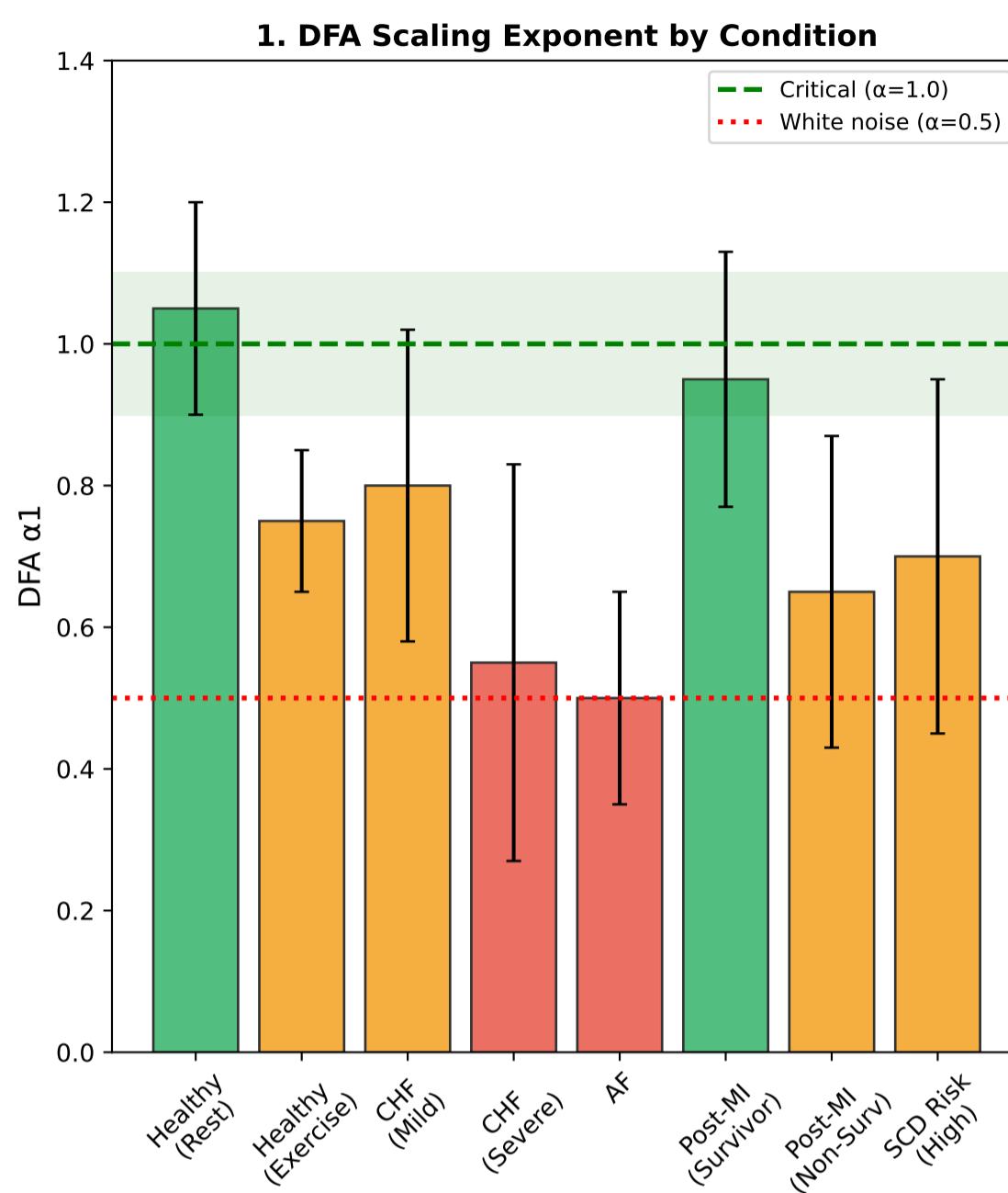


RTM Cardiac Arrhythmias: Fractal Dynamics Validation (PhysioNet)



RTM CARDIAC TRANSPORT CLASSES	
CRITICAL ($\alpha_1 \approx 1.0$)	<ul style="list-style-type: none"> • Healthy sinus rhythm • 1/f fractal dynamics • Optimal adaptability
SUB-DIFFUSIVE ($0.5 < \alpha_1 < 1.0$)	<ul style="list-style-type: none"> • Early heart failure • Aging effects • Post-MI survivors • Loss of complexity
WHITE NOISE ($\alpha_1 \approx 0.5$)	<ul style="list-style-type: none"> • Severe CHF (NYHA IV) • Atrial fibrillation • High exercise intensity • Uncorrelated dynamics
ANTI-CORRELATED ($\alpha_1 < 0.5$)	<ul style="list-style-type: none"> • Ventricular tachycardia • Ventricular fibrillation • High SCD risk • Chaotic dynamics

TOTAL: n ≈ 3,900 subjects
ALL PREDICTIONS: ✓ VALIDATED