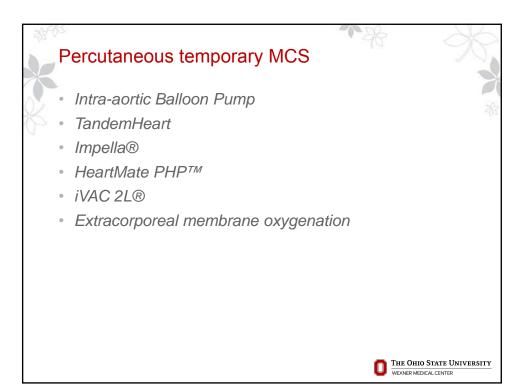
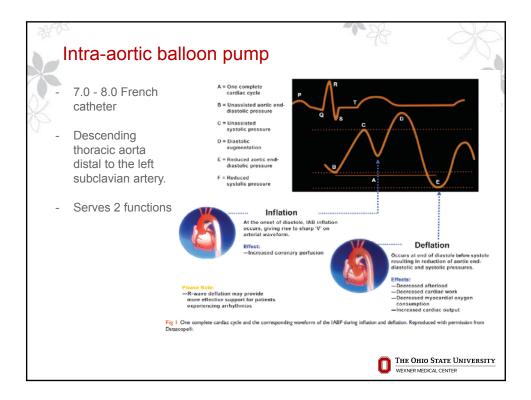
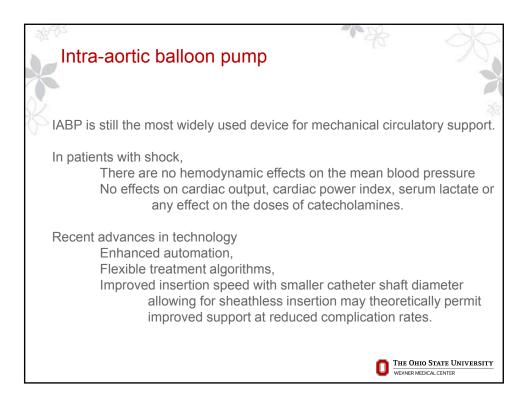
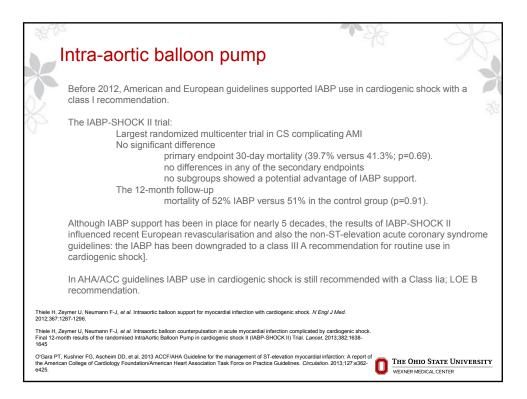


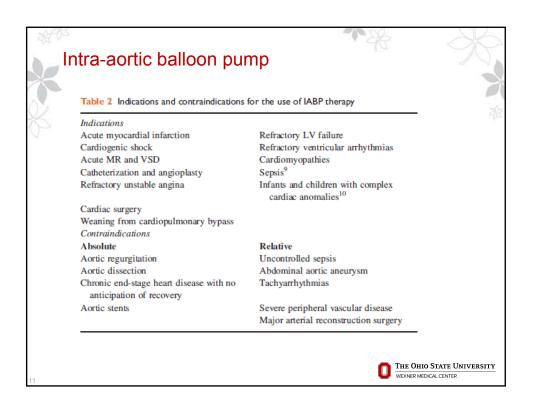
Table 1. Suggested Indications for Percutaneous MCS					
ndication Comments					
Complications of AMI	Ischemic mitral regurgitation is particularly well-suited to these devices as the hemodynamic disturbance is usually acute and substantial. Acutely depressed LV function from large AMI during and after primary PCI is an increasing indication for temporary MCS use. Cardiogenic shock from RV infarction can be treated with percutaneous right ventricular support.				
Severe heart failure in the setting of nonischemic cardiomyopathy	Examples include severe exacerbations of chronic systolic heart failure as well as acutely reversible cardiomyopathies such as fulminant myocarditis, stress cardiomyopathy, or peripartum cardiomyopathy. In patients presenting in INTERMACS profiles 1 or 2, MCS can be used as a bridge to destination VAD placement or as a bridge to recovery if the ejection fraction rapidly improves. ¹⁰⁸				
Acute cardiac allograft failure	Primary allograft failure (adult or pediatric) may be due to acute cellular or antibody-mediated rejection,				
Post-transplant RV failure	prolonged ischemic time, or inadequate organ preservation. Acute RV failure has several potential causes, including recipient pulmonary hypertension, intraoperative injury/ischemia, and excess volume/blood product resuscitation. MCS support provides time for the donor right ventricle to recover function, often with the assistance of inotropic and pulmonary vasodilator therapy. ¹⁰⁹				
Patients slow to wean from cardiopulmonary bypass following heart surgery	Although selected patients may be transitioned to a percutaneous system for additional weaning, this is rarely done.				
Refractory arrhythmias	Patients can be treated with a percutaneous system that is somewhat independent of the cardiac rhythm. For recurrent, refractory, ventricular arrhythmias, ECMO may be required for biventricular failure.				
Prophylactic use for high risk PCI	Particularly in patients with severe LV dysfunction (EF <20-30%) and complex coronary artery disease involving a large territory (sole-remaining vessel, left main or three vessel disease). ^{94,95,98}				
High-risk or complex ablation of ventricular tachycardia	similar to BR-PCI, complex VT ablation can be made feasible with percutaneous support. MCS use allows the patient to remain in VT longer during arrhythmia mapping without as much concern about systemic hypoperfusion.				
High-risk percutaneous valve interventions	These evolving procedures may be aided with the use of MCSs.				

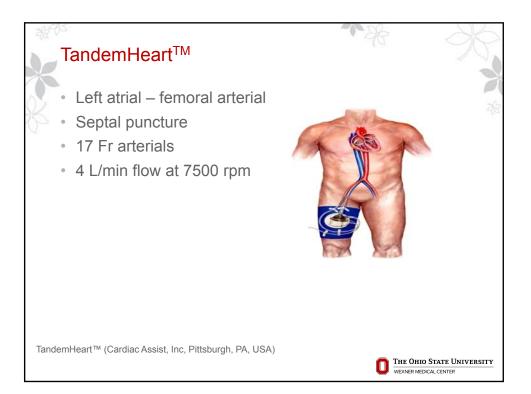


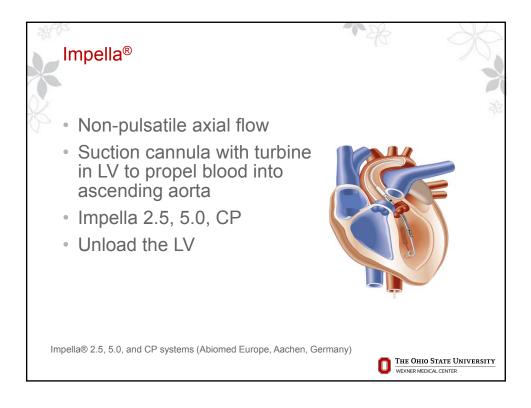


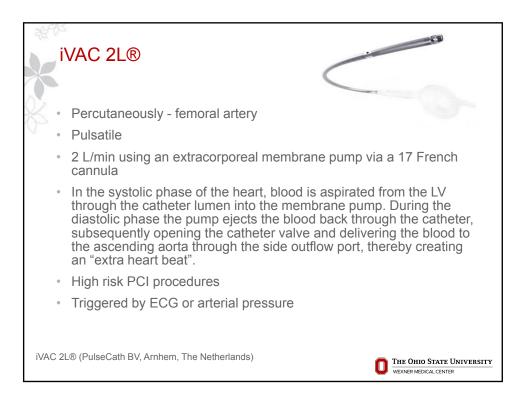


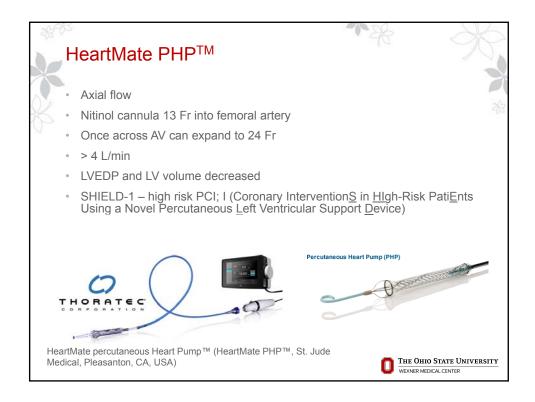


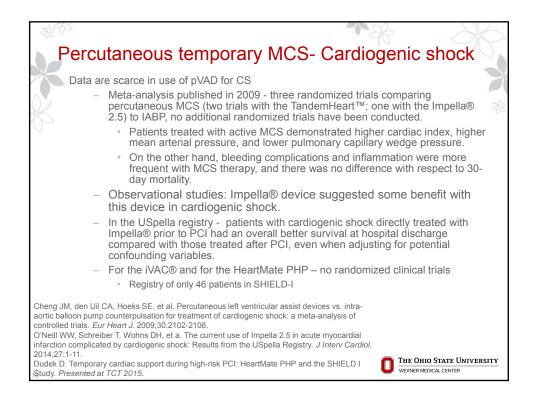




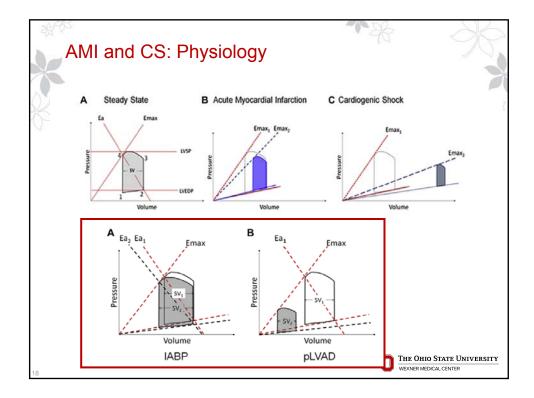


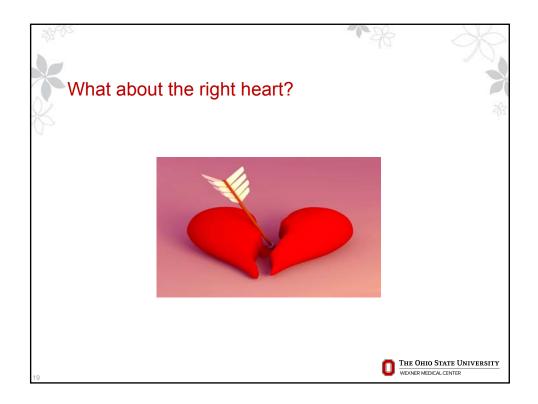


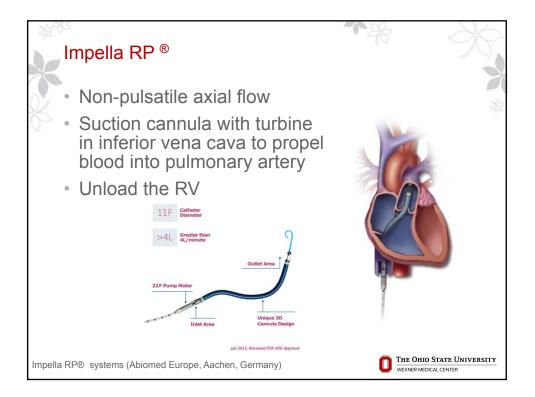


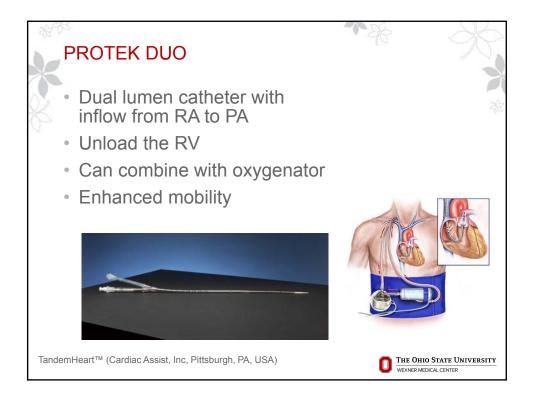


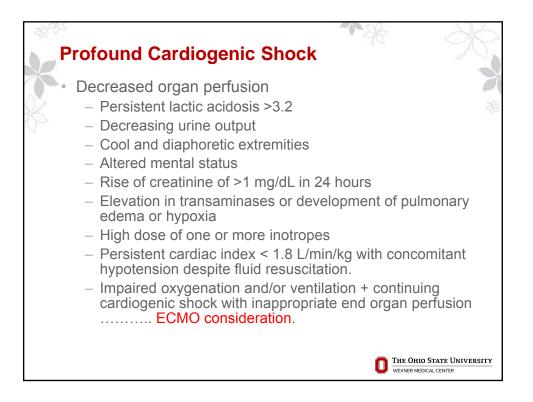
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Da	Pata: Percutaneous temporary MCS					
, -	Hemodynamic condition of patient at time					
	Anticipated risk Need for HD support after PCI					
Patient Wi	Table 2. Sug	gested Schema for Support Device in	High-Risk PCI Anticipated Technically	Challenging		

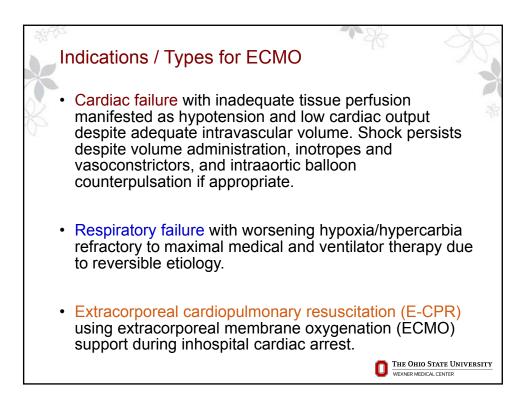


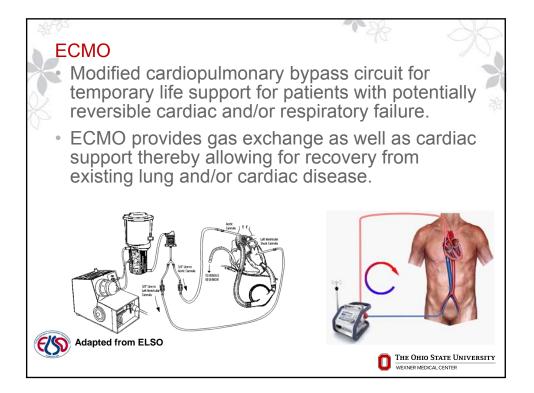














	Indication	Contraindication
	Post-cardiotomy support	Age greater than 75 years
	Acute fulminant myocarditis	Active malignancy with expected survival less than 1 year
	Acute myocardial infarction	Severe peripheral vascular disease
	Post-heart transplant for early graft failure	End-stage renal disease on dialysis
JAN REALES P	Refractory ventricular tachycardia or ventricular fibrillation	Advanced liver disease
	Hypothermia	Current intracranial hemorrhage or other contraindication to systemic anticoagulation
	Acute anaphylaxis	Unwitnessed cardiopulmonary arrest with ongoing cardiopulmonary resuscitation
	Pulmonary embolism	Witnessed cardiopulmonary arrest with cardiopulmonary resuscitation of greater than 30 minutes without return of spontaneous circulation
	Peripartum cardiomyopathy	

