



TAVR Clinical Pathway Protocol



Transapical & Transaortic Approaches

July 2016

Timeframe (Post-Op)	Clinical Action
0-4 Hours	<p>NO Narcotics OR Sedatives</p> <ul style="list-style-type: none">• Extubate within 1 hour• Wean off all drips within 1 hour of arrival<ul style="list-style-type: none">▪ Saline lock all IVs except renal protection protocol fluids▪ Continue for 6 hours post-op (if ordered)• Remove PA catheter within 1 hours if present and continue central line• Continue IV Tylenol initiated in OR
4-12 Hours	<p>NO Narcotics OR Sedatives</p> <ul style="list-style-type: none">• Remove arterial line within 4 hours• Restart oral antihypertensive medications in 4 hours (order PO if able)<ul style="list-style-type: none">▪ Hold if SBP < 100▪ Avoid beta blockers• Restart BPH medications within 4 hours<ul style="list-style-type: none">▪ Double dose for 1st dose• Begin incentive spirometry, cough, and deep breathe Q2 hours• Discontinue oxygen within 4 - 6 hours if O2 saturation ≥ 90%• OOB to chair within 4 - 6 hours after arrival<ul style="list-style-type: none">▪ Discontinue Foley Catheter once patient has been OOB• RN bedside evaluation for dysphagia

	<ul style="list-style-type: none"> ▪ ST consult if POD # fails • Begin ice chips <ul style="list-style-type: none"> ▪ Advance to clear liquids ▪ Advance to regular diet (if passed bedside evaluation) • Walk within 8 hours by RN • Reinforce early ambulation with family <ul style="list-style-type: none"> ▪ Educate family on how to mobilize patient
<p>Post-Op Day 1</p>	<p>NO Narcotics OR Sedatives</p> <ul style="list-style-type: none"> • Aggressive blood sugar control per individual hospital policy • Antiplatelets: <ul style="list-style-type: none"> ▪ Begin ASA 325 mg/day if not started pre-op ▪ Begin Plavix 75 mg/day unless contraindicated • Anticoagulation: <ul style="list-style-type: none"> ▪ Begin Coumadin POD #2 if patient was taking pre-op ▪ May DC home before INR is therapeutic • Insert peripheral IV and remove central line POD #1 <ul style="list-style-type: none"> ▪ Place PICC if central line is required • Remove CTs/drains POD #1 if no air leak, no PTX, and drainage < 300cc • If drain remains on POD #2, remove if drainage < 300cc or trending down and < 100cc for the last 8 hours • Remove EPWs POD #2 if patient has not required pacing for 24 hours • PT consult <ul style="list-style-type: none"> ▪ Ambulate x6 ▪ Family to participate in rehabilitation activities • Social work consult if needed • Discharge if criteria met on POD #3-5

TAVR Discharge Information

Discharge Criteria	<ul style="list-style-type: none"> • Discharge studies complete: TTE, CXR, EKG, BMP, BNP, PT, PTT • Baseline neurological function • Stable heart rhythm and has not required pacing within 24 hours • Vital signs stable <ul style="list-style-type: none"> ▪ Heart rate: 60 – 90 ▪ Systolic BP: 90 – 140 (or at baseline) • Voiding without difficulty; emptying bladder <ul style="list-style-type: none"> ▪ If discharged with Foley catheter, urology follow-up appointment is scheduled • Blood sugar < 150 • Creatinine ≤ baseline • O2 weaned off <ul style="list-style-type: none"> ▪ O2 saturation ≥ 90% ▪ Effective cough and airway clearance • Effective pain control on oral medications, no narcotics or sedatives • Independent in ADLs and ambulation OR has appropriate assistance and devices • Able to ambulate 200 feet (or baseline) • Groin without bleed or hematoma • Patient and family voice appropriate understanding of post TAVR discharge instructions
Discharge & Follow Up	<ul style="list-style-type: none"> • Consider discharge to hotel for 1 – 2 days prior to returning home if the patient is from out of town • Return to Valve Clinic the first Friday after discharge for an office visit <ul style="list-style-type: none"> ▪ Provide patient with date and time • Return to Valve Clinic for 30 day studies <ul style="list-style-type: none"> ▪ Provide patient with date and time • Studies to be completed by/at 30 day Valve Clinic appointment <ul style="list-style-type: none"> ▪ Five Meter Walk ▪ 12 Lead ECG ▪ KCCQ-12 ▪ Echocardiogram <ul style="list-style-type: none"> • Aortic insufficiency addressing paravalvular severity • LVEF • Mean gradient <ul style="list-style-type: none"> ▪ Elevated gradient on follow-up echocardiogram compared to pre-discharge TTE should consider subclinical leaflet thrombosis. ▪ Further evaluation with Four-dimensional CT with a volume-rendered imaging protocol to assess for subclinical leaflet thrombosis.

