

Feline Arterial Thromboembolism (FATE)

Emergency Protocol: Recognition, Acute Management & Prevention



RECOGNITION: THE 5 P's OF FATE

PAIN	PARALYSIS	PULSELESSNESS	PALLOR	POIKILOThERMIA
Acute, severe vocalization agitation	Flaccid hindlimb(s) ± forelimb lower motor neuron	Absent femoral pulses bilaterally (or unilateral)	Pale/cyanotic nail beds and paw pads	Cold distal limbs compared to proximal

PREVALENCE	CONCURRENT CHF	ACUTE SURVIVAL	MEDIAN SURVIVAL
~15% of cats have heart disease (HCM most common)	~70% of FATE cats have concurrent CHF at presentation	~50% survive acute episode with palliative care	4-6 months median for survivors (recurrence common)

ACUTE MANAGEMENT PROTOCOL

1. STABILIZE	2. PAIN CONTROL	3. ANTICOAGULATION	4. CHF ASSESSMENT
<ul style="list-style-type: none"> Oxygen supplementation Minimize stress/handling IV catheter (front leg) Keep warm (blankets) NPO initially 	Opioids essential: <ul style="list-style-type: none"> Buprenorphine 0.02 mg/kg Fentanyl patch (25 mcg) Methadone 0.1-0.3 mg/kg <i>Pain worsens CHF!</i>	Unfractionated heparin: <ul style="list-style-type: none"> 250 units/kg SQ TID First 24-48 hours Start Clopidogrel ASAP: <ul style="list-style-type: none"> Loading: 75 mg x 1 Maintenance: 18.75 mg SID 	70% have concurrent CHF! <ul style="list-style-type: none"> T-FAST for B-lines Check RR (>40 = concern) Thoracic rads if stable If CHF: Furosemide 1-2 mg/kg

ONGOING CARE & MONITORING

PARAMETER	FREQUENCY	ACTION THRESHOLD
Respiratory rate	q2-4h initially	RR >40 → assess for CHF, increase furosemide
Heart rate & rhythm	q4-6h + ECG PRN	Arrhythmia → reperfusion injury? hyperK?
Limb perfusion	q4-6h	Improving = good; necrosis → possible amputation
Temperature	q4-6h	Keep normothermic; hypothermia slows recovery
Renal function	q24-48h	Increased creatinine may = renal clot or reperfusion
Potassium	q12-24h	Hyperkalemia = reperfusion injury (monitor ECG)
Physical therapy	q6-8h when stable	ROM exercises; prevent contracture

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FATE: Chronic Management

Prevention Protocol: Thromboprophylaxis & Risk Stratification



CHRONIC THROMBOPROPHYLAXIS			
DRUG	DOSE	CLINICAL NOTES	EVIDENCE
Clopidogrel (FIRST LINE)	18.75 mg/cat PO SID (1/4 of 75mg tablet)	<ul style="list-style-type: none"> Loading dose: 75 mg x 1 Use gel caps to hide bitter taste Irreversible platelet inhibition Withdraw 5-7 days before surgery 	FAT CAT Study: 8.5 months longer to 2nd event vs aspirin
Rivaroxaban (ADD-ON)	2.5 mg/cat PO SID	<ul style="list-style-type: none"> Factor Xa inhibitor Add to clopidogrel for high-risk cats Limited clinical data available 	PK/PD studies only; no outcome data yet
Aspirin (SECOND LINE)	20 mg/cat q72h (1/4 baby aspirin)	<ul style="list-style-type: none"> Only if cannot use clopidogrel Can add to clopidogrel Higher GI side effects 	Inferior to clopidogrel in FAT CAT study
LMWH (Dalteparin)	100-150 U/kg SQ q12-24h	<ul style="list-style-type: none"> Very expensive (\$200-300/month) Injectable only; short-term acute use 	Limited data; q6-12h dosing may be needed

WHEN TO START PROPHYLAXIS		
LOW RISK (Monitor only)	MODERATE RISK (Consider clopidogrel)	HIGH RISK (Start clopidogrel)
<ul style="list-style-type: none"> HCM with normal LA size LA:Ao <1.5 No spontaneous contrast Normal LAA velocity (>0.4 m/s) 	<ul style="list-style-type: none"> Mild-moderate LA enlargement LA:Ao 1.5-2.0 Any gallop sound present History of arrhythmias 	<ul style="list-style-type: none"> Severe LA enlargement (LA:Ao >2.0) Spontaneous echo contrast ("smoke") Prior ATE event (secondary prevention) Low LAA velocity (<0.25 m/s) Visible thrombus on echo

PROGNOSIS & OUTCOMES		
OUTCOME MEASURE	VALUE	NOTES
Acute survival (palliative care)	~50%	Similar outcomes to thrombolytic/surgical approaches
Time to limb function return	Hours to 6 weeks	Variable; some cats need amputation
Median survival (post-event)	4-6 months	With appropriate chronic management
Recurrence rate	Common	Even with clopidogrel therapy
5-year ATE risk (cats with HCM)	~10%	Based on REVEAL study data

CLIENT COMMUNICATION POINTS
<p>• 50/50 survival: "About half of cats survive the acute crisis with supportive care." • Underlying cause: "FATE occurs because of severe heart disease that we cannot cure, only manage." • Recurrence risk: "Even with medication, there's a significant chance this could happen again." • Recovery timeline: "Limb function may take days to weeks to return. Some cats need amputation." • Median survival: "Cats that survive typically live 4-6 months, though some do much better." • Quality of life: "Euthanasia is a compassionate option if suffering cannot be managed." • Home care: "Physical therapy, keeping warm, litter box assistance, and close monitoring are essential."</p>