
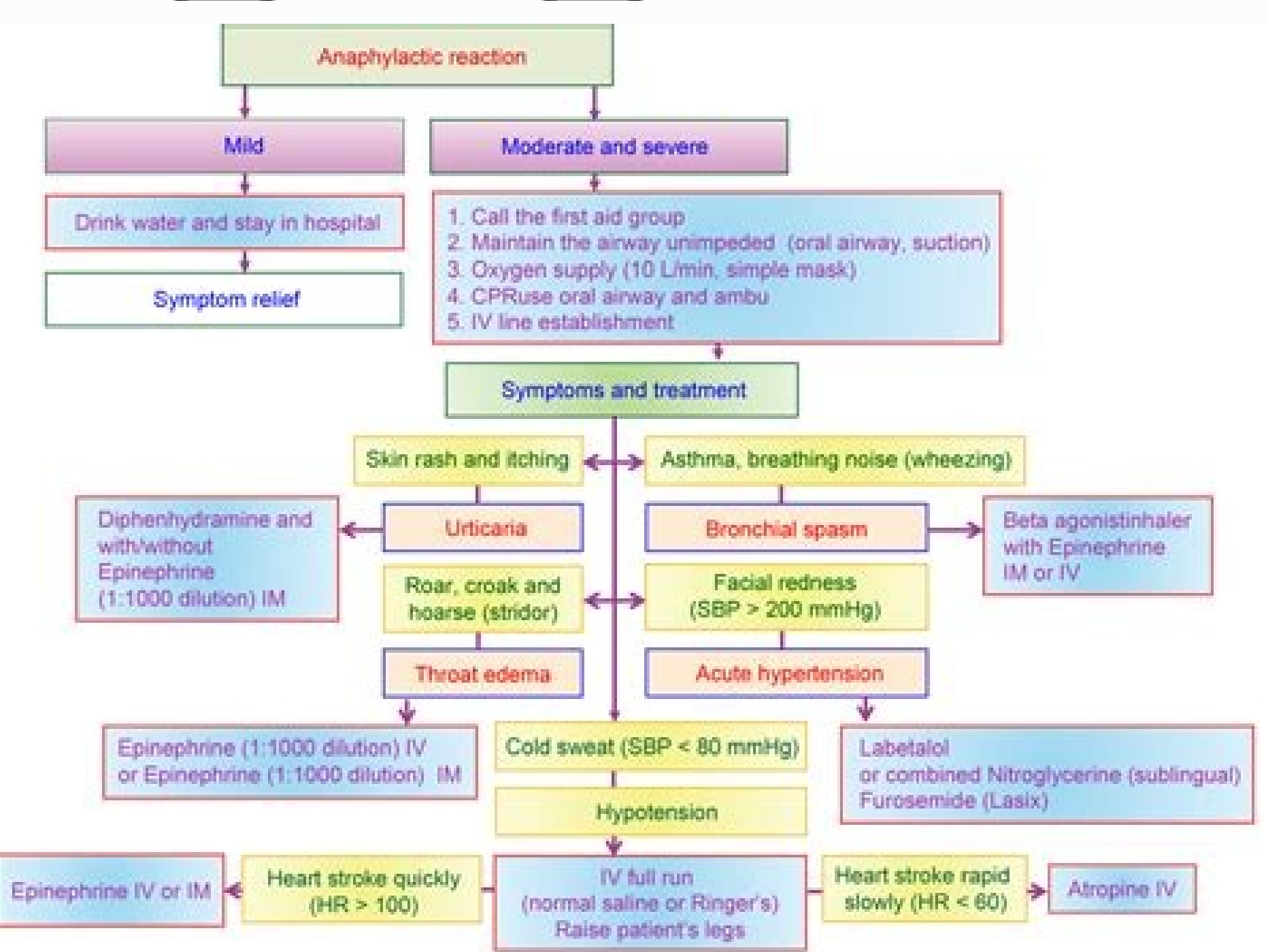
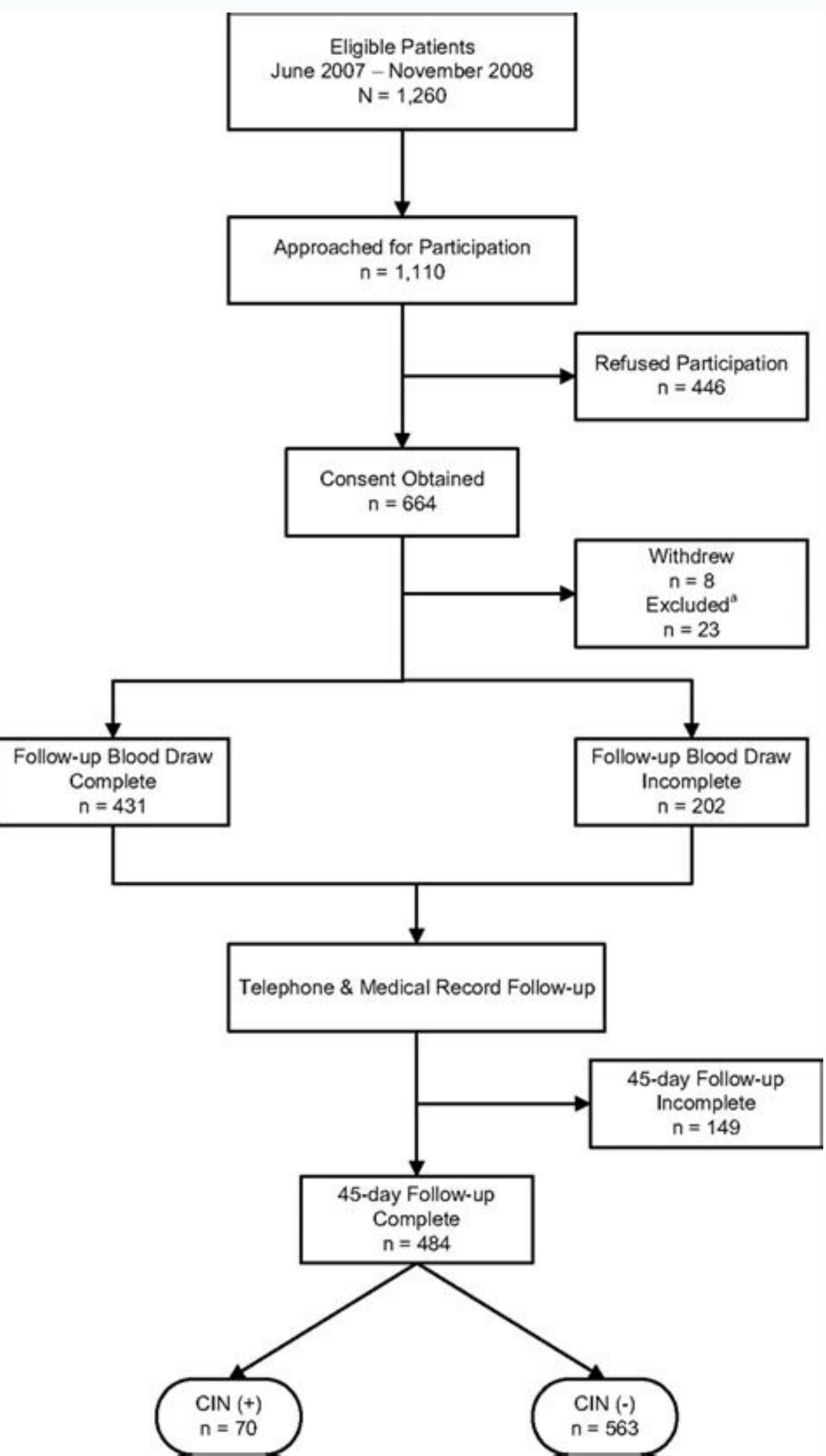


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CONTRAST INDUCED NEPHROPATHY (CIN) per the ACR Manual on Contrast Media v 10.2 (2016)	
DEFINITION	0.5 mg/dL rise in serum creatinine within 48-72 hours after contrast or 25-50% increase in serum creatinine <small>Note: There is significant heterogeneity in definitions, but these are the two most commonly used criteria. It is not clear whether what is typically referred to as CIN is actually caused by the contrast media or a post-contrast acute kidney injury that would have developed regardless.</small>
INCIDENCE	Varies, most studies show 2-10%. Most studies assessing incidence of CIN show a 7.5% incidence of AKI after CT scan (either with contrast or without, the most common control group)
INDICATIONS for RENAL FUNCTION SCREENING BEFORE CONTRAST	Age >60 History of renal disease (transplant, dialysis, solitary kidney, renal cancer or surgery) HTN requiring medication Diabetic nephropathy Metformin (only due to possibility of lactic acidosis)
PREVENTION	Avoidance of contrast, if possible (if GFR <30 mL/min/1.73m ²) Volume expansion with isotonic crystalloid (AMACING trial recently showed no difference) Other agents such as N-acetylcysteine, sodium bicarbonate, and diuretics have not consistently shown a benefit.
OUTCOME	Renal function typically returns to baseline within 7-10 days Patient oriented outcomes such as need for renal replacement therapy or death are very rare

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