

Study	Sample Size	Intervention(s)	Primary Outcomes Measured	Secondary Outcomes Measured	Primary Outcome Results	Secondary Outcome Results
Imiela (2017) [16]	20	Oral Acetazolamide daily dose adjustments based on body weight (<75 kg, 250 mg; 75 - 100 kg, 375 mg; >100 kg, 500 mg)	Mean diuresis in ml days 3 & 4 and days 2, 3, and 4.	Dyspnea measured on days 1-4	Day 3, 4 (ml): 2769.5 (P=0.41) Day 2, 3, 4 (ml): 2603.6 (P=0.91)  Day 1-4 (mmol/L): 207.9, 212.9, 253.1, 258 (P= 0.4, 0.55, 0.81, 0.43)  Day 3, 4 (ml): -541 (P=0.025) Day 2, 3, 4 (ml): -304 (P=0.18)	<u>Visual Dyspnea Scale (mean ± SD)</u> Day 1: 26 (±27) P=0.12 Day 2: 18 (±18) P=0.14 Day 3: 16 (±21) P=0.038 Day 4: 9 (±9) P=0.0006  <u>Likert Scale (mean ± SD):</u> Day 1: 2.278 (±1.1) P=0.13 Day 2: 1.722 (±0.7) P=0.0076 Day 3: 1.667 (±0.97) P=0.07 Day 4: 1.444 (±0.64) P=0.041
		Furosemide	Fluid Balance in ml days 3 & 4 and days 2, 3, and 4.		Day 3, 4 (ml): 2434.50 Day 2, 3, 4 (ml): 2557.00  Day 1-4 (mmol/L): 260.88, 247.11, 240.7, 213.3  Day 3,4 (ml): 242, 95.3	<u>Visual Dyspnea Scale (mean ± SD)</u> Day 1: 42 (±13) Day 2: 41 (±16) Day 3: 38 (±19) Day 4: 35 (±16)  <u>Likert Scale (mean ± SD)</u> Day 1: 3 (±0.8) Day 2: 2.833 (±0.8) Day 3: 2.778 (±1.4) Day 4: 2.222 (±0.83)
Nunez (2018) [17]	25	Acetazolamide + Loop Diuretic 120mg/day	NYHA class Weight CA125 NT-proBNP	Estimated glomerular filtration rate (eGFR), urea, serum sodium, potassium, pH, and systolic blood pressure	Improvement in NYHA class (P=0.0018) Reduction in weight (P = 0.023) Decrease in CA125 (P=0.001) NT-proBNP remained stable	GFR improved (P=0.002) no significant changes for other outcomes
DIURESE-CHF (2019) [18]	34	Acetazolamide 250 mg daily + low-dose loop diuretics (bumetanide 1 mg twice daily)  Or Acetazolamide 500 mg daily + high-dose loop diuretics (bumetanide 2 mg)	24-hour natriuresis (corrected for loop diuretic dose)	NT-proBNP levels Worsening renal function (WRF) Neurohormonal activation Clinical outcomes	84±46 mmol (P=0.048)	NT-proBNP: 8165 ng/L to 6341 ng/L (P = 0.001)  WRF: 5 (28%) (P=0.046)  Peak Plasma Renin Activity: 4.8 µg/L/h (P=0.904) Peak Plasma Aldosterone Activity: 260 ng/L (P = 0.756)  No statistical difference in clinical outcomes
		High-dose loop diuretics alone (twice the home maintenance dose)			52±42 mmol	NT-proBNP: 7339 ng/L to 5746 ng/L  WRF: 0 (0%)  Peak Plasma Renin Activity: 4.9 µg/L/h Peak Plasma Aldosterone Activity: 212 ng/L  No statistical difference in clinical outcomes
ADVOR (2022) [19]	519	Acetazolamide 500 mg IV once daily + Loop diuretic IV (2x oral maintenance dose)	Successful Decongestion	Duration of stay OR All cause death or Rehospitalization for heart failure	42.2% (P<0.001)	8.8 Days (CI; 0.81–0.98) 76 Participants (29.7%) Hazard ratio, 1.07 (0.78–1.48)
		Placebo + Loop diuretic IV (2x oral maintenance dose)			30.50%	9.9 Days 72 participants (27.8%)
CANDI (2022) [22]	55	Acetazolamide 125-250 mg + furosemide 120-180 mg	Diuresis (ml) Natriuresis (mEq/L) Weight loss (kg)		Diuresis: No significant difference (+2025 ml, 95% CI: -1551 to 5601; p = 0.260) Natriuresis: No significant difference (+1311 mEq/l, 95% CI: -235 to 2859; p = 0.095) Weight loss reduction of ≥1 kg: 62% (CI: 95%, 39-84)	
		Chlorthalidone 25 mg + furosemide 120-180 mg			Weight loss reduction of ≥1 kg: 26% (CI: 95% 10-41)	
Kosiorek (2023) [23]	61	Oral Acetazolamide 250mg + Lasix	Diuresis Fluid balance (ml) Weight loss (kg)		Diuresis: 24, 48, 72 hours; 2750 ml, (P = 0.05), 5300 ml (P = 0.01), 7800 ml, (P = 0.004). Fluid Balance: Day 1-3; -1682 ml (P = 0.015), -1232 ml (P = 0.042), -1126 ml (P = 0.004).	
		Lasix (standard of care)			Diuresis: 24, 48, 72 hours; 1850 ml, 3750 ml, 5500 ml	