Table 1. Summary of included studies								
First author, year, country	Design	Participants	Proximity to death	Aims / description	Research methods	Key findings	Gough's WoE (A B C - D)	
Weight of Evide	ence: Medium							
Cerchietti 2000 Argentina ²¹	Prospective controlled trial	42 patients with "terminal advanced cancer" and inadequate hydration	Mean survival "close to 4 days in both groups" (exact figures not given)	Assess usefulness of SC hydration in relieving thirst and chronic nausea (measured by patient-rated VAS) or "delirium" (measured by MMSE)	Participants randomised to 1L fluid / day or usual care. Comparison of means between groups.	Both groups showed improvement in thirst/nausea at 24h. CAH group had better relief from chronic nausea at 48h (p=0.027).	L M H - M	
Chiu 2002 Taiwan ²²	Cohort study	344 PCU inpatients with advanced cancer	Mean survival 23.9 days; retrospective review enabled analysis of data from 48 hours before death for most participants	Assess patients' views on acceptability of CAH as death approaches; also to perform survival analysis	Survey (piloted and assessed for content validity). Descriptive statistics (survey) and survival analysis (multiple Cox regression).	66-76% of patients perceived no effect of CAH; 19-32% felt it brought "more comfort", 2-6% felt it brought "less comfort". Hazard ratio for survival for using CAH 2 days before death of 1.03.	L M M - M	
Davies 2018 UK ²⁰	Unblinded feasibility cluster randomised trial	200 PCU or cancer centre inpatients with advanced cancer, reduced oral intake and prognosis < 1 week	Median survival 2.9- 4.2 days; inclusion criteria state last days of life	Determine if a definitively powered study of CAH at end of life can be done, with a hypothesis that adequate hydration will reduce incidence of delirium in cancer patients at end of life. Symptom measurements taken by HCPs	Sites randomised to receive usual care or usual care plus IV or SC hydration (volume determined by weight as per NICE guidance CG174). Intention-to-treat statistical analysis. Survival analysis with COX regression model.	38.5% in CAH group stopped hydration due to adverse effect. Frequency of hyperactive delirium was not reduced, but onset was delayed (p=0.098). No differences seen in other symptoms measured. Median survival 2.9 days (no hydration) vs 4.3 days (hydration group), p=0.038. HR 0.358 for survival at 3 days in CAH.	Н М Н - М	
Fritzson 2015 Sweden ²³	Retrospective historical case- control study	280 inpatients who had an expected in- hospital death	Inclusion criteria: last week of life	Investigate whether dying patients with CAH have more or fewer symptoms than those without	Case note and chart review. Patients divided into 5 groups depending on received volume of hydration. Statistical comparisons included χ ² test, Mann- Whitney U test, and univariate logistic regression.	More dyspnoea recorded in patients who received CAH in the last 24h of life (p<0.0001) and in the last week (p=0.0005). No differences seen in anxiety and nausea.	M M H - M	
Lokker 2019 The Netherlands ⁹	Prospective observational study	371 inpatients judged to be dying by an MDT in hospital or hospice	Mean survival 25 hours from start of monitoring	Investigate whether the amount of fluid intake (oral or parenteral) preceding or during the dying phase is	Daily clinician / nurse assessment of restlessness (VICS scale) and "death rattle" (Back score). Mann-Whitney	No association seen between volume of fluid intake and occurrence of "death rattle" or restlessness. Higher fluid intake in	L M H - M	

				related to occurrence of "death rattle" and terminal restlessness	U test used for significance testing.	the 25-48 hours before death associated with terminal restlessness in the final 24h of life (p=0.049)			
Morita 2005 Japan ²⁴	Prospective observational study	226 patients with abdominal malignancies, in community or on oncology ward	Inclusion criteria: last three weeks of life; study design allowed for review of data from 24 hours, 7 days and 3 weeks before death	Explore associations between hydration volume and symptoms in the last 3 weeks of life in patients with abdominal malignancies	Daily examination and physician rating of symptoms and potential covariates. Patients divided into groups receiving >1L/day or <1L/day, 1 and 3 weeks before death. Univariate analyses using χ ² and Mann-Whitney U tests.	Increase in dehydration score was higher in the non-hydration group (p=0.004). A significant increase in ascites was seen in the CAH group (p=0.035). No other significant differences were seen after controlling.	LHH-M		
Nakajima 2013 Japan ²⁵	Prospective observational study	75 patients with abdominal malignancies and prognosis <3 months	Inclusion criteria: last three weeks of life; study design allowed for review of data from 24 hours, 7 days and 3 weeks before death	Explore influence of hydration volume on signs and symptoms in last 3 weeks of life in patients with abdominal malignancies	Patients divided into groups receiving >1L/day or <1L/day, 1 and 3 weeks before death. Signs and symptoms evaluated by clinicians prospectively. Fisher's exact and Mann-Whitney U tests used.	The group receiving CAH >1L/day were found to have worse scores for peripheral oedema (p=0.04), ascites (p=0.037) and bronchial secretions (p=0.036). Dehydration score worse in the less-hydrated group (p=0.027).	M M H - M		
Raijmakers 2013 The Netherlands ²⁶	Qualitative interview study	23 relatives of deceased patients under hospice care, bereaved in the last 2-4 months	N/A (study of bereaved relatives)	Contribute to better understanding of relatives' concerns regarding reduced oral intake near end of life	Semi-structured interviews. Thematic analysis.	Themes identified as "meaning of oral intake", "responding to decreased oral intake", "part of the process", "patient's choice", "the vicious circle", and "communication and information". Symbolic meaning seen to be more important than nutritional value to many.	M M L - M		
Weight of Evidence: Low									
Krishna 2010 Singapore ²⁷	Record review study	238 inpatients with cancer on an oncology ward	Retrospective case note review examining data from last 48h of life	Determine occurrence of symptoms of hydration- related symptoms in last 48h of life; determine impact on survival	Retrospective case note review. Descriptive statistics and Kaplan-Meier survival analysis (time between palliative care referral and death).	No difference seen in survival. No differences seen in any symptoms except CCF (higher in non-CAH group, p=0.036) and peripheral oedema (higher in non-CAH group, p=0.05)	LLH-L		
Morita 2003 Japan ²⁸	Uncontrolled before-after study	284 PCU inpatients with a cancer diagnosis	Inclusion criteria state participants had to die in order to be included;	Clarify effects of opioid rotation and CAH on prevalence of agitated delirium at end of life	Retrospective case note and chart review with multi-rater symptom measurements. Cohen's <i>k</i> test for interrater	No differences in the prevalence of agitated delirium, communication or consciousness scores were seen in the two study periods.	LLM-L		

Musgrave 1995 Israel ²⁹	Cross-sectional survey	19 terminally ill oncology ward inpatients with IV fluids	measurements taken from 1 week before death Inclusion criteria: prognosis < 10 days	Clarify the effects of IV hydration on the sensation of thirst in dying patients	reliability. Comparison of means in first and second study periods. Structured questionnaire developed and administered daily along with patient assessment of thirst, and nurse assessments of symptoms and IV intake.	No relationship was seen between thirst and quantity of IV fluids used.	LLM-L
Musgrave 1996 Israel ³⁰	Cross sectional survey	33 inpatients with cancer in an oncology ward, and 32 family members	30 / 33 participants died within 10 days	Identify attitudes of patients and family to IV fluids in the terminal phase	Convenience sampling. Single administration of survey. Descriptive statistics.	7 out of 10 competent dying patients expressed a positive disposition towards IV fluids; 23 couldn't say. 81% of family members were positive.	LLM-L
Otani 2013 Japan ³¹	Record review study	179 terminally ill cancer patients (<i>no</i> other information)	Survival data not given explicitly, but the abstract suggests some measurements taken 1 week before death	Evaluate association between CAH and symptoms in the last week of life	Retrospective case note review. Patients classified into 3 groups (<0.5L, 0.5-1L, and >1L/day). Groups compared with χ^2 test. Clinical factors and symptoms assessed with multiple regression analysis.	As hydration increased, incidence of dyspnoea (66% vs 25%) and bronchial secretions (49% vs 18%) "significantly" increased; no p- values quoted.	LLM-L
Torres-Vigil 2012 USA ³²	Cross sectional survey	76 relatives of deceased patients with cancer, bereaved in the last 3-23 months	N/A (study of bereaved relatives)	Identify factors associated with bereaved caregivers' perceptions regarding benefits patient derived from CAH in last weeks of life	16-item Likert scale survey (validation not mentioned). Descriptive statistics.	76% agreed that CAH had been beneficial. Views were mostly strongly positive towards CAH being helpful, not bothersome, and psychologically useful.	L M M - L
Viola 1997 Canada ³³	Prospective controlled trial	66 inpatients in two PCUs with advanced cancer who were dying and dehydrated	Inclusion criteria state last week of life; measurements taken through study period including last days of life	Identify symptoms in the dying that may be affected by CAH therapy	Patients at one site received AH therapy while those at the other site did not. Multiple clinician-rated symptoms and clinical outcomes recorded. Descriptive statistics.	Several major differences between cohorts at two sites noted at baseline, making results non- comparable. Several data are missing from the analysis. Author states that myoclonus is more common in the no-hydration group but does not quote figures.	L M M - L