

PCRC De-identified Data Repository (DiDR) Study Summary

TITLE: Reducing End-of-Life Symptoms with Touch (REST)					
PRINCIPLE INVESTIGATOR(S):	Jean Kutner, MD, MSPH	SITE(S) (if applicable):			
	Marlaine Smith, RN, PhD, AHN-BC,	15 U.S. hospices that were members			
	FAAN	of the Population-based Palliative			
COORDINATING SITE:	University of Colorado Cancer	Care Research Network (PoPCRN)			
	Center				
STUI					
START:	Nov 2003				
LAST SUBJECT CONTACT:	Mar 2007				

OBJECTIVES:

The purpose of this study is to determine whether massage therapy is effective in reducing pain and distress and improving quality of life among cancer patients at life's end.

PARTICIPANTS				
	ENROLLMENT	ELIGIBILITY CRITERIA		
Patients:	380	Inclusion: • 18 years and older • Advanced cancer (stage III or IV), with at least moderate pain 1 week prior to study entry • Life expectancy of at least 3 weeks • Able to speak English Exclusion: • Massage therapy within 1 month prior to study entry • Current use of anticoagulants • Platelet count less than 10,000 • Unstable spine that would interfere with touch therapy		
Informal Caregivers:	n/a	n/a		
Health Care Providers:	n/a	n/a		

METHODOLOGY:

Multisite, randomized control trial

INTERVENTION (if applicable):

Six 30-minute massage or simple-touch sessions over 2 weeks

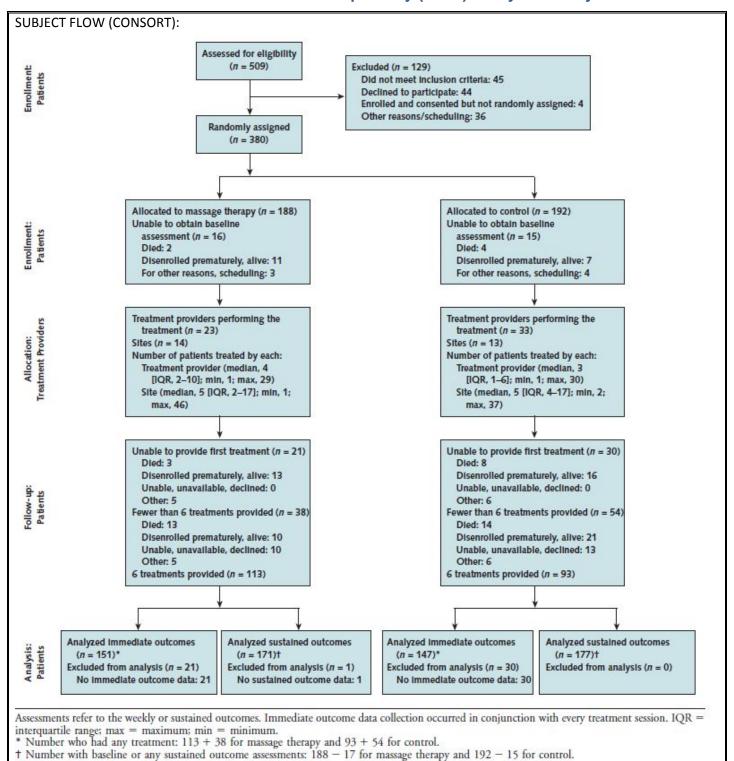
MEASURES:

Primary outcomes were immediate (Memorial Pain Assessment Card, 0- to 10-point scale) and sustained (Brief Pain Inventory [BPI], 0- to 10-point scale) change in pain. Secondary outcomes were immediate change in mood (Memorial Pain Assessment Card) and 60-second heart and respiratory rates and sustained change in quality of life (McGill Quality of Life Questionnaire, 0- to 10-point scale), symptom distress (Memorial Symptom Assessment Scale, 0- to 4-point scale), and analgesic medication use (parenteral morphine equivalents [mg/d]). Immediate outcomes were obtained just before and after each treatment session. Sustained outcomes were obtained at baseline and weekly for 3 weeks.





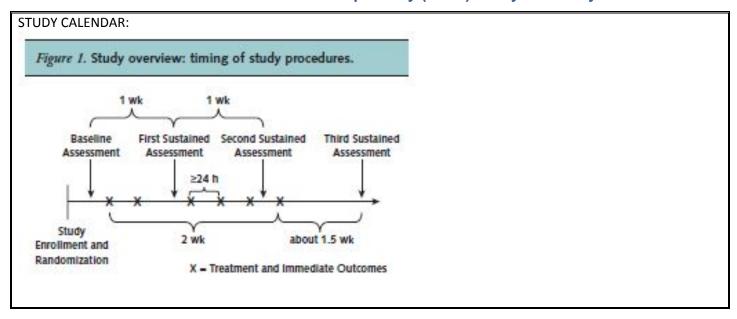
PCRC De-identified Data Repository (DiDR) Study Summary







PCRC De-identified Data Repository (DiDR) Study Summary







PCRC De-identified Data Repository (DiDR) Study Summary

BASELINE CHARACTERISTICS (TABLE 1)

Table 1. Participant Characteristics*

Characteristic	Massage Therapy Group (n = 188)	Control Group $(n = 192)$
Women, n (%)	120 (64)	112 (58)
Mean age (SD), y	65.2 (14.4)	64.2 (14.4)
Non-Hispanic white race, n (%)	161 (86)	164 (85)
Married or in a committed relationship, n (%)	93 (49)	77 (40)
Medicare as primary payer/insurance, n (%)	114 (61)	109 (57)
College-level or higher education, n (%)	72 (39)	79 (42)
Receiving care at home, n (%)	145 (77)	155 (81)
Mean time after initial cancer diagnosis (SD), y	2.5 (3.9)	2.9 (5.1)
Cancer type, n (%)		
Lung	48 (26)	48 (25)
Breast	34 (18)	29 (15)
Pancreatic	13 (7)	22 (12)
Colorectal	12 (6)	17 (9)
Prostate	10 (5)	11 (6)
Presence of metastasis, n (%)	188 (100)	192 (100)
Presence of bone metastasis, n (%)	55 (29)	46 (24)
Mean number of comorbid conditions (SD)	2.2 (2.2)	2.3 (2.2)
Concomitant medical conditions, n (%)†	2.2 (2.2)	2.3 (2.2)
Medical diagnoses	104 (55)	110 (57)
Neurologic diagnoses	13 (7)	18 (9)
Vascular diagnoses	18 (10)	13 (7)
Received previous professional massage therapy, n (%)	76 (40)	74 (39)
Mean perception of helpfulness of massage therapy (SD)‡	4.0 (1.0)	3.9 (1.1)
Mean score of worst pain in past 24 hours (SD) (scale, 0–10 points)	6.7 (2.4)	6.4 (2.5)
Mean score of worst pain in past week (SD) (scale, 0–10 points)	8.0 (1.9)	7.6 (2.2)
Mean goal pain level (SD) (scale, 0–10 points)	0.2 (0.8)	0.3 (0.8)
Constant pain present, n (%)	97 (52)	103 (55)
Intermittent pain present, In (%)	133 (71)	135 (70)
Brief pain present, n (%)	56 (30)	46 (24)
Neuropathic pain present, n (%)§	38 (23)	51 (29)
Mean number of body sections with pain (SD)	6.9 (6.5)	7.4 (6.5)
Median frequency of routine care (IQR), h/wk	0.9 (0.5)	7.4 (0.5)
	0 (0-15)	0 (0-15)
Chaplain Home health ald	0 (0-15)	0 (0-15)
and the same of th	45 (22.5–90)	48.8 (22.5–103.
Nurse Physician	45 (22.5–90) 0 (0–8.75)	48.8 (22.5–103. 0 (0–3.8)
Physician Social worker		
Social worker Volunteer	15 (0–26.3) 0 (0–7.5)	15 (0–31.3) 0 (0–7.5)

IQR = interquartile range.



^{*} Of 380 participants.

^{† &}quot;Medical diagnoses" are heart disease, diabetes, HIV/AIDS, hypertension, infection, kidney or renal disease, liver disease, lung disease, or pulmonary embolus. "Neurologic diagnoses" are delirium, dementia, neurologic disease (for example, Parkinson disease, amyotrophic lateral sclerosis, or multiple sclerosis) or stroke. "Vascular diagnoses" are deep venous thrombosis, peripheral vascular disease, and pressure ulcers.

[‡] Perceived helpfulness of massage therapy for pain was measured on a 1- to 5-point scale, in which 1 means "not at all helpful" and 5 means "very helpful."
§ Presence of neuropathic pain was defined as score ≥3 on the composite Neuropathic Pain Scale.



PCRC De-identified Data Repository (DiDR) Study Summary

PCRC STANDARDIZED DATA ELEMENTS

Please see the separate information sheet "DISC Standardized Data Elements" for the exact wording and format of the data elements.

DATA ELEMENT	Collected?	Var Name(s)	Data source (e.g. self-report, EHR) or reason not applicable
1. Site ID (if multi-site)	⊠	site	
2. Who is the research participant? (e.g., patient, caregiver, etc.)			n/a, only patients enrolled
3. Sex	\boxtimes	gender	self-report or EHR
4. Ethnicity	\boxtimes	yesLatinx	self-report or EHR
5. Race	\boxtimes	raceSum	self-report or EHR
6. Age in years	\boxtimes	age	self-report or EHR
7. Current Marital Status	\boxtimes	marital	self-report or EHR
8. Primary life-limiting diagnosis/illness	⊠	priCa	EHR
9. Performance status (AKPS)	×	kps	Karnofsky Performance Scale used; On-Site Data Collector
10. Enrolled in Hospice	\boxtimes	site	most participants were from hospice sites
a. If yes to hospice, where is hospice care provided?	⊠	site, ploc	
11. Receiving Palliative Care (PC)?			
a. If yes to receiving PC, where is PC provided?			
12. Source of Death information			
13. Location of Death			
14. Enrolled in Hospice at time of death?			
15. Receiving PC at time of death?			

Cells in blue only need to be collected for patient research participants. Cells in orange should be collected regardless of participant type.

PATIENT REPORTED OUTCOME INSTRUMENTS

CONTENT	ABBREV	INSTRUMENT NAME
(e.g., PS)	(e.g., AKPS)	(e.g., Australian Modified Karnofsky Performance Status)
Immediate	MPAC	Memorial Pain Assessment Card
Pain/Mood		
Sustained Pain	BPI	Brief Pain Inventory
QOL	MQOLQ	McGill Quality of Life Questionnaire
Symptom Distress	MSAS	Memorial Symptom Assessment Scale
Neuropathic Pain	NPS	Neuropathy Pain Scale

