

Does emotional disclosure about stress improve health in rheumatoid arthritis? Randomized, controlled trials of written and spoken disclosure

Mark A. Lumley^{a,*}, James C.C. Leisen^b, R. Ty Partridge^a, Tina M. Meyer^c, Alison M. Radcliffe^d, Debra J. Macklem^e, Linda A. Naoum^a, Jay L. Cohen^{a,f}, Lydia M. Lasichak^g, Michael R. Lubetsky^b, Angelia D. Mosley-Williams^{a,f}, Jose L. Granda^a

^aWayne State University, Detroit, MI, USA

^bHenry Ford Health System, Detroit, MI, USA

^cOakland University, Rochester, MI, USA

^dBoise State University, Boise, Idaho, USA

^eChelsea Community Hospital, Chelsea, MI, USA

^fJohn D. Dingell Veterans Affairs Medical Center, MI, USA

^gKamil Orthopedic Group, West Bloomfield, MI, USA

Sponsorships or competing interests that may be relevant to content are disclosed at the end of this article.

ARTICLE INFO

Article history:

Received 8 June 2010

Received in revised form 6 November 2010

Accepted 4 January 2011

Keywords:

Rheumatoid arthritis

Pain

Emotional disclosure

Expressive writing

Stress

Emotion

Clinical trial

ABSTRACT

Studies of the effects of disclosing stressful experiences among patients with rheumatoid arthritis (RA) have yielded inconsistent findings, perhaps due to different disclosure methods – writing or speaking – and various methodological limitations. We randomized adults with RA to a writing (n = 88) or speaking (to a recorder) sample (n = 93), and within each sample, to either disclosure or 1 of 2 control groups (positive or neutral events), which conducted four 20-minute, at-home sessions. Follow-up evaluations at 1, 3, and 6 months included self-reported, behavioral, physiological, and blinded physician-assessed outcomes. In both writing and speaking samples, the disclosure and control groups were comparably credible, and the linguistic content differed as expected. Covariance analyses at each follow-up point indicated that written disclosure had minimal effects compared with combined controls – only pain was reduced at 1 and 6 months, but no other outcomes improved. Spoken disclosure led to faster walking speed at 3 months, and reduced pain, swollen joints, and physician-rated disease activity at 6 months, but there were no effects on other outcomes. Latent growth curve modeling examined differences in the trajectory of change over follow-up. Written disclosure improved affective pain and walking speed; spoken disclosure showed only a marginal benefit on sensory pain. In both analyses, the few benefits of disclosure occurred relative to both positive and neutral control groups. We conclude that both written and spoken disclosure have modest benefits for patients with RA, particularly at 6 months, but these effects are limited in scope and consistency.

© 2011 International Association for the Study of Pain. Published by Elsevier B.V. All rights reserved.

1. Introduction

Stressful experiences influence pain and adjustment [7,24,33], and awareness and expression of emotions, rather than avoidance or inhibition, is thought to be adaptive [10,14]. To test this, Pennebaker and Beall [25] developed a paradigm in which participants are randomized to write for several 20-minute sessions about stressors and feelings (ie, written emotional disclosure, or expressive writing) or about nonstressful control topics, and changes in

health over subsequent months are examined. An early meta-analysis of healthy samples found a moderate benefit of disclosure [30], although recent meta-analyses of clinical samples [9] or those that included more studies [8,11,19] revealed weaker effects.

Seven published studies have examined emotional disclosure in patients with rheumatoid arthritis (RA). The study by Smyth et al. [31] was most supportive, finding that disclosure improved physician-rated disease status; however, other studies have been less supportive. Danoff-Burg et al. [6] found that fatigue – but not pain, disability, or psychological functioning – improved after disclosure. Kelley et al. [13] reported improved affective and physical functioning, but no change in pain, joint condition, or behavior. Broderick et al. [5] found little or no benefit when disclosure occurred as a

* Corresponding author. Address: Department of Psychology, Wayne State University, 5057 Woodward Avenue, 7th Floor, Detroit, MI 48202, USA. Tel.: +1 313 577 2838; fax: +1 313 577 7636.

E-mail address: mlumley@wayne.edu (M.A. Lumley).

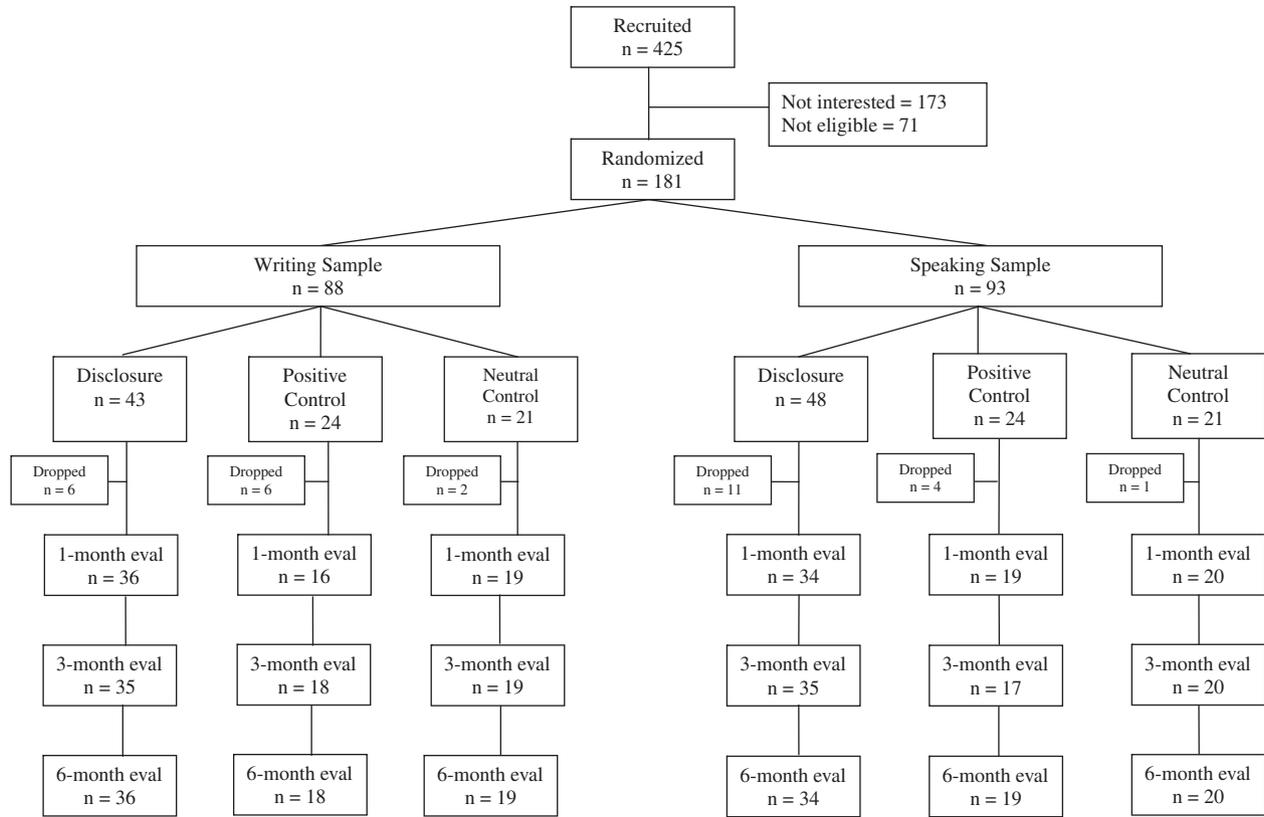


Fig. 1. Flow of participants through the study.

Table 1
Demographic data for each experimental condition, for patients in the writing sample (top) and speaking sample (bottom).

| Sample/variable | Full sample | Disclosure | Combined control | Positive control | Neutral control |
|------------------------|-------------|-------------|------------------|------------------|-----------------|
| <i>Writing sample</i> | | | | | |
| Female n (%) | 74 (84%) | 38 (88.4%) | 36 (80%) | 19 (79%) | 17 (81%) |
| Male n (%) | 14 (16%) | 5 (11.6%) | 9 (20%) | 5 (21%) | 4 (19%) |
| <i>Ethnicity n (%)</i> | | | | | |
| European American | 46 (52%) | 24 (55.8%) | 22 (48.9%) | 11 (45.8%) | 11 (52.4%) |
| African American | 41 (47%) | 18 (41.9%) | 23 (51.1%) | 13 (54.2%) | 10 (47.6%) |
| Hispanic American | 1 (1%) | 1 (2.3%) | 0 (0%) | 0 (%) | 0 (0%) |
| Age mean (SD) | 54.9 (10.8) | 55.4 (11.7) | 54.3 (10.0) | 53.1 (10.0) | 55.7 (10.0) |
| Education mean (SD) | 13.6 (2.4) | 13.4 (2.4) | 13.8 (2.3) | 14.0 (2.7) | 13.6 (1.7) |
| RA duration mean (SD) | 13.2 (11.3) | 14.6 (11.4) | 12.0 (11.1) | 11.3 (9.3) | 12.8 (13.1) |
| <i>Speaking sample</i> | | | | | |
| Female n (%) | 78 (84%) | 40 (83.3%) | 38 (84.4%) | 20 (83.3%) | 18 (85.7%) |
| Male n (%) | 15 (16%) | 8 (16.7%) | 7 (15.6%) | 4 (16.7%) | 3 (14.3%) |
| <i>Ethnicity n (%)</i> | | | | | |
| European American | 54 (58%) | 28 (58.3%) | 26 (57.8%) | 13 (54.2%) | 13 (61.9%) |
| African American | 38 (41%) | 20 (41.7%) | 18 (40%) | 11 (45.8%) | 7 (33.3%) |
| Hispanic American | 1 (1%) | 0 (0%) | 1 (2.2%) | 0 (0%) | 1 (4.8%) |
| Age mean (SD) | 54.3 (11.6) | 53.1 (11.3) | 55.5 (11.9) | 58.0 (12.2) | 52.6 (11.1) |
| Education mean (SD) | 13.5 (2.6) | 13.1 (2.4) | 14.0 (2.7) | 14.5 (3.1) | 13.4 (2.1) |
| RA duration mean (SD) | 9.3 (8.4) | 9.0 (7.6) | 9.6 (9.3) | 10.2 (11.0) | 8.9 (7.1) |

part of routine clinical practice. Wetherell et al. [36] noted better mood and less disease activity after disclosure, but the effects were due to unexpected worsening among controls. Van Middendorp et al. [34] found no effect of disclosure on clinical outcomes, but some evidence of improved immune markers. Finally, Keefe et al. [12] reported no benefits after either private or nurse-facilitated disclosure.

The available literature on emotional disclosure among people with RA has many limitations. In particular, speaking rather than

writing has often been conducted. The study that demonstrated the most positive effects [31] used writing, whereas 4 studies used speaking into a recorder [12,13,34] or to a nurse [12] or permitted patients to choose the method [36]. The other 2 studies had additional limitations, including not verifying or obtaining patient writings [5] or using a mixed-diagnosis sample (RA and lupus) [6]. Also, most of these studies have not conducted manipulation checks, verified credibility of control conditions, or examined the content of the disclosures. Samples have often been quite small, such as

متن کامل مقاله

دریافت فوری ←

ISIArticles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات