

## "Recover your smile" -

## An evaluation of a short-term, psychosocial intervention in breast cancer patients

## BACKGROUND

- Medical cancer treatment is often accompanied by appearance-related side effects (e.g., hair loss, skin irritation, paleness), affecting social and psychological well-being [1], and may promote nonadherence to treatment [2].
- Chemotherapy induced alopecia is associated with a decrease in health-related quality of life [3], especially in patients with higher

## METHODS

- n = 37 breast cancer patients undergoing chemotherapy were recruited through the Breast Centre Munich (see flowchart in Fig. 2)
- Stratifying for age and depression, patients were randomly assigned either to an immediate intervention group (IG) or a wait-list control (WL), with a waiting period of 4 weeks (Fig. 1)
- The intervention consisted of two elements:
  - Session 1: 4-hour group make-up workshop and photo shoot (S1; Fig. 3)

- distress [4] and younger patients [5].
- Initial evidence suggests that psychosocial interventions (i.e., beauty care) during the early stages of cancer may reduce depressive symptoms, and improve body image and quality of life [6, 7].
- To date, no study investigated the effects of a beauty care workshop in a randomized controlled trial and, therefore, it was tested whether depressive symptoms and quality of life would be improved in breast cancer patients (compared with a wait-list control).
- Session 2: receiving professionally edited portrait-/upper body-photos by email (S2)
- Questionnaires assessing trait-level depression [8] and quality of life [9] were administered at 4 (for IG) and 6 (for WL) measurements



Posttests marked by an asterisk were only considered for within-comparisons.



• Posttest 2 (at 4 weeks) and Follow-Up (at 8 weeks) indicated moderate stability of effects (see effect sizes and broken green line in Fig. 4A and 4B).

Pretest Posttest 1 Posttest 2 Follow-Up

Pretest Posttest 1 Posttest 2 Follow-Up

Fig. 4. Means of study variables as a function of Group and Time. Error bars represent standard errors. \*\* p < .01, \* p < .05. WL received treatment after 4 weeks and showed similar improvements (see broken blue lines).

CONCLUSION	REFERENCES	Acknowledgments We would like to thank
<ul> <li>To our knowledge, this study represents the first randomized controlled trial examining the effectiveness of a beauty care intervention in breast cancer patients.</li> <li>Results show that participation in a group makeup-workshop and receiving the edited photos (Session 2, at 3 weeks after Session 1) decrease patient's depressive symptoms and increase self-reported, breast-cancer-related quality of life (compared to pretest and compared to WL, respectively).</li> <li>Results support the use of this type of brief, low-cost psychosocial intervention in women undergoing medical breast cancer treatment to improve their well-being.</li> </ul>	<ul> <li>[1] White, C.A. <i>Psycho-Oncology 2000;9</i>:183-192.</li> <li>[2] Magai, C., et al. <i>J Womens Health 2007;16</i>(1),11-23.</li> <li>[3] Lemieux, J., et al. <i>Psycho-Oncology 2008;</i>17(4):317-328.</li> <li>[4] Choi, E.K., et al. <i>Psycho-Oncology 2014;23</i>(10):1103-1110.</li> <li>[5] Miller, S.J., et al. <i>Palliat Support Care 2014;12</i>(5):363-367.</li> <li>[6] Taggart, L.R., et al. <i>J Cancer Educ 2009;24</i>(2):94-99.</li> <li>[7] Quintard, B., et al. <i>Psycho-Oncology 2008;17</i>:1032-1038.</li> <li>[8] Hautzinger, M., et al. <i>2012;</i> Göttingen: Hogrefe-Verlag.</li> <li>[9] Brady, M.J., et al. <i>JCO 1997;15</i>(3):974-986.</li> <li>[10] Spaderna, H., et al. <i>Diagnostica 2002;48</i>(2):80-89.</li> <li>[11] Kroenke, K., et al. <i>Medical Care 2003;41</i>(11):1284-1292.</li> </ul>	<ul> <li>"Nana – Recover Your Smile e.V." for their substantial contribution and support throughout this study.</li> <li>More detailed information: www.recoveryoursmile.org or scan QR code</li> </ul>