# References of the 37 studies included in this meta-analysis

# Albu, S., & Meagher, M. W. (2016). Expectation of nocebo hyperalgesia affects EEG alpha-activity. *International Journal of Psychophysiology*, *109*, 147–152. <https://doi.org/10.1016/j.ijpsycho.2016.08.009>

# Aslaksen, P. M., Åsli, O., Øvervoll, M., & Bjørkedal, E. (2016). Nocebo hyperalgesia and the startle response. *Neuroscience*, *339*, 599–607. <https://doi.org/10.1016/j.neuroscience.2016.10.040>

# Aslaksen, P. M., & Lyby, P. S. (2015). Fear of pain potentiates nocebo hyperalgesia. *Journal of Pain Research*, *8*, 703–710. <https://doi.org/10.2147/JPR.S91923>

# Aslaksen, P. M., Zwarg, M. L., Eilertsen, H.-I. H., Gorecka, M. M., & Bjørkedal, E. (2015). Opposite effects of the same drug. *Pain*, *156*(1), 39–46. <https://doi.org/10.1016/j.pain.0000000000000004>

# Bartels, D. J. P., van Laarhoven, A. I. M., Haverkamp, E. A., Wilder-Smith, O. H., Donders, A. R. T., van Middendorp, H., van de Kerkhof, P. C. M., & Evers, A. W. M. (2014). Role of Conditioning and Verbal Suggestion in Placebo and Nocebo Effects on Itch. *PLoS ONE*, *9*(3), e91727–e91727. <https://doi.org/10.1371/journal.pone.0091727>

# Bartels, D. J. P., van Laarhoven, A. I. M., Stroo, M., Hijne, K., Peerdeman, K. J., Donders, A. R. T., van de Kerkhof, P. C. M., & Evers, A. W. M. (2017). Minimizing nocebo effects by conditioning with verbal suggestion: A randomized clinical trial in healthy humans. *PLOS ONE*, *12*(9), e0182959–e0182959. <https://doi.org/10.1371/journal.pone.0182959>

# Blythe, J., Peerdeman, K., Veldhuijzen, D., van Schothorst, M., Thomaïdou, M., Laarhoven, A., & Evers, A. (2021). Nocebo Effects on Cowhage-evoked Itch: A Randomized Controlled Trial of Classical Conditioning and Observational Learning. *Acta Dermato Venereologica*, *101*(1), adv00370. <https://doi.org/10.2340/00015555-3723>

# Camerone, E. M., Piedimonte, A., Testa, M., Wiech, K., Vase, L., Zamfira, D. A., Benedetti, F., & Carlino, E. (2021). The Effect of Temporal Information on Placebo Analgesia and Nocebo Hyperalgesia. *Psychosomatic Medicine*, *83*(1), 43–50. <https://doi.org/10.1097/PSY.0000000000000882>

# Colagiuri, B., Park, J., Barnes, K., Sharpe, L., Boakes, R. A., Colloca, L., & Livesey, E. J. (2021). Pre-Exposure, But Not Overshadowing, Inhibits Nocebo Hyperalgesia. *The Journal of Pain*, *22*(7), 864–877. <https://doi.org/10.1016/j.jpain.2021.02.008>

# Colagiuri, B., & Quinn, V. F. (2018). Autonomic Arousal as a Mechanism of the Persistence of Nocebo Hyperalgesia. *The Journal of Pain : Official Journal of the American Pain Society*, *19*(5), 476–486. <https://doi.org/10.1016/j.jpain.2017.12.006>

# Colagiuri, B., Quinn, V. F., & Colloca, L. (2015). Nocebo Hyperalgesia, Partial Reinforcement, and Extinction. *The Journal of Pain*, *16*(10), 995–1004. <https://doi.org/10.1016/J.JPAIN.2015.06.012>

# Colloca, L., Petrovic, P., Wager, T. D., Ingvar, M., & Benedetti, F. (2010). How the number of learning trials affects placebo and nocebo responses. *Pain*, *151*(2), 430–439. <https://doi.org/10.1016/j.pain.2010.08.007>

# Colloca, L., Sigaudo, M., & Benedetti, F. (2008). The role of learning in nocebo and placebo effects. *Pain*, *136*(1), 211–218. <https://doi.org/10.1016/j.pain.2008.02.006>

# Corsi, N., & Colloca, L. (2017). Placebo and Nocebo Effects: The Advantage of Measuring Expectations and Psychological Factors. *Frontiers in Psychology*, *8*. <https://www.frontiersin.org/article/10.3389/fpsyg.2017.00308>

# Egorova, N., Benedetti, F., Gollub, R. L., & Kong, J. (2020). Between placebo and nocebo: Response to control treatment is mediated by amygdala activity and connectivity. *European Journal of Pain (London, England)*, *24*(3), 580–592. <https://doi.org/10.1002/ejp.1510>

# Feldhaus, M. H., Horing, B., Sprenger, C., & Büchel, C. (2021). Association of nocebo hyperalgesia and basic somatosensory characteristics in a large cohort. *Scientific Reports*, *11*(1), 762. <https://doi.org/10.1038/s41598-020-80386-y>

# Freeman, S., Yu, R., Egorova, N., Chen, X., Kirsch, I., Claggett, B., Kaptchuk, T. J., Gollub, R. L., & Kong, J. (2015). Distinct neural representations of placebo and nocebo effects. *NeuroImage*, *112*. <https://doi.org/10.1016/j.neuroimage.2015.03.015>

# Geers, A. L., Close, S., Caplandies, F. C., Vogel, C. L., Murray, A. B., Pertiwi, Y., Handley, I. M., & Vase, L. (2019). Testing a positive-affect induction to reduce verbally induced nocebo hyperalgesia in an experimental pain paradigm. *PAIN*, *160*(10), 2290–2297. <https://doi.org/10.1097/j.pain.0000000000001618>

# Geuter, S., & Buchel, C. (2013). Facilitation of Pain in the Human Spinal Cord by Nocebo Treatment. *Journal of Neuroscience*, *33*(34), 13784-13790-13784–13790. <https://doi.org/10.1523/JNEUROSCI.2191-13.2013>

# Howe, L. C., Goyer, J. P., & Crum, A. J. (2017). Harnessing the Placebo Effect: Exploring the Influence of Physician Characteristics on Placebo Response. *Health Psychology : Official Journal of the Division of Health Psychology, American Psychological Association*, *36*(11), 1074–1082. <https://doi.org/10.1037/hea0000499>

# Kong, J., Gollub, R. L., Polich, G., Kirsch, I., LaViolette, P., Vangel, M., Rosen, B., & Kaptchuk, T. J. (2008). A Functional Magnetic Resonance Imaging Study on the Neural Mechanisms of Hyperalgesic Nocebo Effect. *Journal of Neuroscience*, *28*(49), 13354-13362-13354–13362. <https://doi.org/10.1523/JNEUROSCI.2944-08.2008>

# Meeuwis, S. H., van Middendorp, H., Lavrijsen, A. P. M., Veldhuijzen, D. S., & Evers, A. W. M. (2021). Open- and Closed-Label Placebo and Nocebo Suggestions About a Sham Transdermal Patch. *Psychosomatic Medicine*, *83*(1), 33–42. <https://doi.org/10.1097/PSY.0000000000000862>

# Meeuwis, S. H., van Middendorp, H., van Laarhoven, A. I. M., Veldhuijzen, D. S., Lavrijsen, A. P. M., & Evers, A. W. M. (2019). Effects of Open- and Closed-Label Nocebo and Placebo Suggestions on Itch and Itch Expectations. *Frontiers in Psychiatry*, *10*, 436. <https://doi.org/10.3389/fpsyt.2019.00436>

# Nir, R. R., Yarnitsky, D., Honigman, L., & Granot, M. (2012). Cognitive manipulation targeted at decreasing the conditioning pain perception reduces the efficacy of conditioned pain modulation. *Pain*. <https://doi.org/10.1016/j.pain.2011.10.010>

# Pazzaglia, C., Testani, E., Giordano, R., Padua, L., & Valeriani, M. (2016). Expectation to feel more pain disrupts the habituation of laser-pain rating and laser-evoked potential amplitudes. *Neuroscience*, *333*, 244-251-244–251. <https://doi.org/10.1016/j.neuroscience.2016.07.027>

# Skvortsova, A., Veldhuijzen, D. S., van Middendorp, H., Colloca, L., & Evers, A. W. M. (2019). Effects of Oxytocin on Placebo and Nocebo Effects in a Pain Conditioning Paradigm: A Randomized Controlled Trial. *The Journal of Pain*, *21*(3–4), 430–439. <https://doi.org/10.1016/j.jpain.2019.08.010>

# Thomaidou, M. A., Blythe, J. S., Houtman, S. J., Veldhuijzen, D. S., van Laarhoven, A. I. M., & Evers, A. W. M. (2021). Temporal structure of brain oscillations predicts learned nocebo responses to pain. *Scientific Reports*, *11*(1), 9807. <https://doi.org/10.1038/s41598-021-89368-0>

# Thomaidou, M. A., Veldhuijzen, D. S., Meulders, A., & Evers, A. W. M. (2021). An experimental investigation into the mediating role of pain-related fear in boosting nocebo hyperalgesia. *Pain*, *162*(1), 287–299. <https://doi.org/10.1097/j.pain.0000000000002017>

# Thomaidou, M. A., Veldhuijzen, D. S., Peerdeman, K. J., Wiebing, N. Z. S., Blythe, J. S., & Evers, A. W. M. (2020). Learning mechanisms in nocebo hyperalgesia: The role of conditioning and extinction processes. *Pain*, *161*(7), 1597–1608. <https://doi.org/10.1097/j.pain.0000000000001861>

# Tinnermann, A., Geuter, S., Sprenger, C., Finsterbusch, J., & Büchel, C. (2017). Interactions between brain and spinal cord mediate value effects in nocebo hyperalgesia. *Science*, *358*, 105–108.

# Tu, Y., Wilson, G., Camprodon, J., Dougherty, D. D., Vangel, M., Benedetti, F., Kaptchuk, T. J., Gollub, R. L., & Kong, J. (2021). Manipulating placebo analgesia and nocebo hyperalgesia by changing brain excitability. *Proceedings of the National Academy of Sciences*, *118*(19), e2101273118. <https://doi.org/10.1073/pnas.2101273118>

# van de Sand, M. F., Menz, M. M., Sprenger, C., & Büchel, C. (2018). Nocebo-induced modulation of cerebral itch processing – An fMRI study. *NeuroImage*, *166*, 209–218. <https://doi.org/10.1016/J.NEUROIMAGE.2017.10.056>

# van den Broeke, E. N., Geene, N., van Rijn, C. M., Wilder-Smith, O. H. G., & Oosterman, J. (2014). Negative expectations facilitate mechanical hyperalgesia after high-frequency electrical stimulation of human skin: Negative expectations and mechanical hyperalgesia. *European Journal of Pain*, *18*(1), 86–91. <https://doi.org/10.1002/j.1532-2149.2013.00342.x>

# Van Laarhoven, A. I. M., Vogelaar, M. L., Wilder-Smith, O. H., Van Riel, P. L., Van De Kerkhof, P. C., Kraaimaat, F. W., Evers, A. W. M. (2011). Induction of nocebo and placebo effects on itch and pain by verbal suggestions. *Pain*, *152*(7), 1486–1494. <https://doi.org/10.1016/j.pain.2011.01.043>

# Vögtle, E., Barke, A., & Kröner-Herwig, B. (2013). Nocebo hyperalgesia induced by social observational learning. *Pain*, *154*(8), 1427–1433. <https://doi.org/10.1016/j.pain.2013.04.041>

# Wei, H., Zhou, L., Zhang, H., Chen, J., Lu, X., & Hu, L. (2018). The Influence of Expectation on Nondeceptive Placebo and Nocebo Effects. *Pain Research and Management*, *2018*, 1–8. <https://doi.org/10.1155/2018/8459429>

# Weng, L., Peerdeman, K., Della Porta, D., Laarhoven, A. I. M., & Evers, A. (2021). Can placebo and nocebo effects generalize within pain modalities and across somatosensory sensations? *Pain*, *Publish Ahead of Print*. <https://doi.org/10.1097/j.pain.0000000000002390>