

Supplementary Online Content

Hah J, Mackey SC, Schmidt P, et al. Effect of perioperative gabapentin on postoperative pain resolution and opioid cessation in a mixed surgical cohort: a randomized clinical trial. *JAMA Surg*. Published online December 13, 2017. doi:10.1001/jamasurg.2017.4915

eAppendix 1. Author-Generated Measures

eAppendix 2. Subgroup Analyses

eFigure 1. Subgroup Analyses for Time to Opioid Cessation

eFigure 2. Subgroup Analyses for Time to Pain Cessation

This supplementary material has been provided by the authors to give readers additional information about their work.

eAppendix 1. Author Generated Measures

For you specifically, how likely do you think it is that you will develop a new chronic pain problem after surgery?

Not at all Unlikely Somewhat likely Very likely

How sensitive are you to pain?

More than average Average Less than average

For you specifically, how likely do you think it is that you will develop an addiction problem from pain medication you take after surgery?

Not at all Unlikely Somewhat likely Very likely

Daily Pain and Opioid Use Questionnaire

Please rate your pain from zero to ten where zero is no pain and ten is the worst pain you can imagine on the AVERAGE in the last 24 hours.

0 1 2 3 4 5 6 7 8 9 10
No Pain As Bad As
Pain You Can Imagine

Please rate your pain from zero to ten where zero is no pain and ten is the worst pain you can imagine right NOW.

0 1 2 3 4 5 6 7 8 9 10
No Pain As Bad As
Pain You Can Imagine

Please rate your pain from zero to ten where zero is no pain and ten is the worst pain you can imagine at its WORST in the last 24 hours.

0 1 2 3 4 5 6 7 8 9 10
No Pain As Bad As
Pain You Can Imagine

In the last 24 hours, what medications did you take for your pain?

How many have you taken in the past 24 hours?

In the last 24 hours, how much relief has pain medication provided?

0 1 2 3 4 5 6 7 8 9 10
No Complete
Relief Relief

In the last 24 hours, have you needed to take your pain medication for any reason other than just pain, for example to help sleep, to reduce anxiety, or to improve mood?

Yes NO

If yes for what? _____

In the last 24 hours, has it been necessary for you to take any more pain medication than recommended?

Yes NO

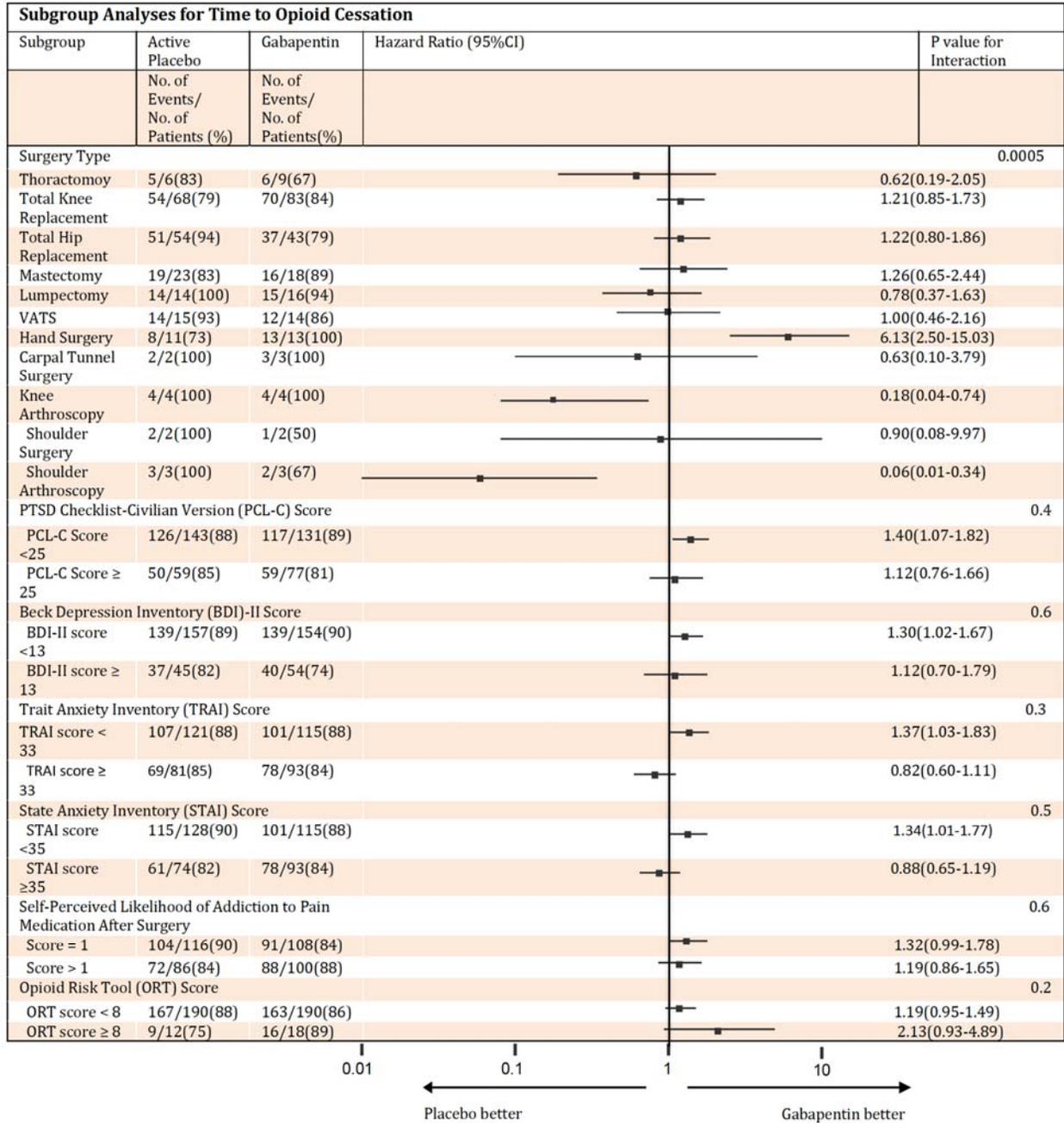
In general, over the last 24 hours which of these options best describes how often you have thought about your pain or pain medication:

Less than once per hour Several times an hour Every few minutes Constantly

eAppendix 2. Subgroup Analyses

Subgroups analyses for elevated PCL-C, BDI-II, TRAI, STAI, self-perceived likelihood of addiction, and ORT scores were completed for both time to pain and opioid cessation (eFigure1, eFigure2). There was no significant heterogeneity of treatment effects on either the primary or secondary outcomes across the pre-specified subgroups. A post hoc analysis to further explore the effect of perioperative gabapentin on time to opioid cessation was conducted through a subgroup analysis of surgery types (eFigure1). As expected there was significant heterogeneity of treatment effects (p-value=0.0005). The effect of perioperative gabapentin was most notable in patients undergoing hand surgery, increasing the rate of opioid cessation 6-fold (HR 6.13, 95%CI 2.50-15.03).

eFigure 1. Subgroup Analyses for Time to Opioid Cessation



eFigure2. Subgroup Analyses for Time to Pain Cessation

