

Anaesthesia pilot data results

Pilot 1 – Sustained attention response task

Participants were asked to listen to each of the 6 stories while viewing a series of numbers flashing on the computer monitor. They were asked to press a keyboard key to all numbers EXCEPT the number 3.

The total number of trials differed based on the different lengths of the stories.

	Green My Eyes	Pieman	Slumlord	Taken	Tunnel Under the World	Vodka
Total #s presented	360	360	360	270	360	351
Total 3s presented (inhibition response required)	40	40	40	30	40	39
Average over 26 subjects						
% correct inhibition	11	11	13	9	10	12
% correct response	84	85	85	85	85	84
% incorrect inhibition	89	89	87	91	90	88
% incorrect response	16	15	15	15	15	16

Take away result:

- Participants do quite poorly on inhibiting their responses, but are equally as bad across all stories
- all 6 stimuli were equally as engaging

Pilot 2 – Memory task

Participants lay on a bed in a dimly lit room to simulate lying still in the scanner. Participants listened to each of the stories via headphones in a timing that simulated the timing of story presentation in the scanner. After all the stories were heard, participants completed memory questionnaires about each of the stories in the same order in which the stories were heard. **Participants were never told the titles of the stories.**

The final set of questions can be found in the attached document and exist as Qualtrics questionnaires. Each question was presented to participants first as a free form answer (recall) with the option to select 'I don't know'. If the participant selected 'I don't know' then they were presented with the two options from which to select. The results are scored regardless of whether the correct answers were recalled or selected.

Story Listening Timing:

- 10 min rest
- **Vodka**
- **Tunnel Under the World**
- 20 min rest
- **Slumlord**
- **Pieman**
- 20 min rest
- **Green My Eyes**
- **Taken**

We expected that participants would be worst on the story they heard first – the story that was the furthest length of time away from the questionnaires. In fact, we saw the opposite. People did best on the first questionnaire and worst on the last questionnaire.

The Green My Eyes results seemed a little too far from the results on the rest of the stories, so I modified the questionnaire and had a small group of participants listen to that story and then immediately complete the questionnaire.

Results of Memory Tests

Story	# of questions	% correct 16 participants	% correct 7 participants
Vodka	16	86	
Tunnel Under the World	12	81	
Slumlord	15	82	
Pieman	14	77	
Green My Eyes	14	65	85
Taken	12	77	

Each survey began with the same questions and then had story specific questions. The results from the following questions were not analyzed:

1. Please summarize the story using as many details as you can remember.
2. How much did you like this story? (5 point scale)
3. Did you feel engaged with this story? (5 point scale)
4. Have you ever heard this story before? (yes/maybe/no)

The story specific questions can be found in the attached document with the correct answers highlighted.