

## Quality Control parameters for Visuomotor Conditional Learning Task.

### 1) Schedule name has to contain - “**Habituation 1**”

Each animal ID has to have **ONLY ONE (1)** “Habituation 1” session in the entire project life cycle.

- . **Max Number Trials** – no value (empty) or 0
- . **Max Schedule Time** = 600
- . **End Summary Condition** = 600

### 2) Schedule name has to contain - “**Habituation 2**”

Each animal ID has to have at least **TWO (2)** “Habituation 2” sessions in the entire project life cycle.

- . **Max Number Trials** – no value (empty) or 0
- . **Max Schedule Time** = 1200 or 2400
- . **End Summary Condition** = 1200 or 2400

### 3) Schedule name has to contain - “**Initial Touch**”

Each animal ID has to have **AT LEAST ONE (1)** “Initial Touch” sessions in the entire project life cycle.

- . **Max Number Trials** – 30
- . **Max Schedule Time** = 3600
- . **Analysis name** = must contain “**PAL Initial Train**”
- . **End Summary – Condition** = greater than “0”
- . **End Summary – No Images** = greater than “0”
- . **End Summary – Condition** has to be equal to “3600” if the **End Summary – No Images** is less than “30”
- . **End Summary – No Images** has to be equal to “30” if the **End Summary – Condition** is less than “3600”.

**Commented [OP1]:** We currently use the PAL initial touch

### 4) Schedule name has to contain - “**Must Touch**”

Each animal ID has to have **AT LEAST ONE (1)** “Must Touch” sessions in the entire project life cycle.

- . **Max Number Trials** – 30
- . **Max Schedule Time** = 3600

- . **Analysis name** = must contain “ **VMCL Must Touch**”
- . **End Summary – Condition** = greater than “0”
- . **End Summary – Corrects** = greater than “0”
- . **End Summary – Condition** has to be equal to “3600” if the **End Summary – Corrects** is less than “30”
- . **End Summary – Corrects** has to be equal to “30” if the **End Summary – Condition** is less than “3600”.

5) Schedule name has to contain - “**Must Initiate**”  
Each animal ID has to have **AT LEAST ONE (1)** “Must Initiate” sessions in the entire project life cycle.

- . **Max Number Trials** – 30
- . **Max Schedule Time** = 3600
- . **Analysis name** = must contain “**VMCL Must Initiate**”
- . **End Summary – Condition** = greater than “0”
- . **End Summary – Corrects** = greater than “0”
- . **End Summary – Condition** has to be equal to “3600” if the **End Summary – Corrects** is less than “30”
- . **End Summary – Corrects** has to be equal to “30” if the **End Summary – Condition** is less than “3600”.

6) Schedule name has to contain - “**Punish Incorrect 1**”  
Each animal ID has to have **AT LEAST TWO (2)** “Punish Incorrect I” sessions in the entire project life cycle.

- . **Max Number Trials** – 30
- . **Max Schedule Time** = 3600
- . **Analysis name** = must contain “ **VMCL Punish Incor I**”
- . **End Summary – Condition** = greater than “0”
- . **End Summary – Trials completed** = greater than “0”
- . **End Summary – Condition** has to be equal to “3600” if the **End Summary – Trials completed** is less than “30”
- . **End Summary – Trials completed** has to be equal to “30” if the **End Summary – Condition** is less than “3600”.

7) Schedule name has to contain - “**Punish Incorrect 2**”

Each animal ID has to have **AT LEAST TWO (2)** “Punish Incorrect II” sessions in the entire project life cycle.

- . **Max Number Trials** – 30

- . **Max Schedule Time** = unlimited

- . **Analysis name** = must contain “**VMCL Punish Incor II**”

- . **End Summary – Condition** = greater than “0”

- . **End Summary – Trials completed** = greater than “0”

7) Schedule name has to contain - “**VMCL**”

Each animal ID must contain atleast 5 sessions.

- . **Max Number Trials** – 30

- . **Max Schedule Time** = unlimited

- . **Analysis name** = must contain “**VMCL**”

- . **End Summary – Condition** = greater than “0”

- . **End Summary – Trials completed** = greater than “0”

**Commented [OP2]:** In my training, I now have two stages of punish incorrect II. First stage, they have a limited hold period (time to respond to the left or right after nose poking the centre) of 10s, and the second stage with a limited hold of 5s. I am unsure whether this should be added into the protocol, as not everyone may want to do this. What do you think?

**Commented [OP3R2]:**

**Commented [OP4]:** When incorporating advanced in vivo techniques into the schedule, I do not use a max amount of time. Neither does Miguel for autoshaping and fibre photometry

**Commented [OP5]:** When incorporating advanced in vivo techniques into the schedule, I do not use a max amount of time. Neither does Miguel for autoshaping and fibre photometry

**Commented [OP6]:** There should also be an option to add VMCL train vs VMCL test, but it should not be mandatory.