Quality Control Parameters for Progressive Ratio (PR)

1) - 4) (i.e., pre-training) only applicable if PR is first and/or only task performed:

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.
  • Analysis script: PR Analysis Folder —> PR Habit 1
. **Max Number Trials** – no value (empty) or 0
. **Max Schedule Time** = 600
. **End Summary - Schedule Length** = 600

2) Schedule name has to contain - **"Habituation 2"**
Each animal ID has to have **THREE (3)** "Habituation 2" session in the entire project life cycle.
  • Analysis script: PR Analysis Folder —> PR Habit 1
. **Max Number Trials** – no value (empty) or 0
. **Max Schedule Time** = 1200 or 2400
. **End Summary - Schedule Length** = 1200 or 2400

3) Schedule name has to contain - **"Initial Touch"**
Each animal ID has to have **AT LEAST ONE (1)** "Initial Touch" session in the entire project life cycle.
  • Can use VD Analysis Folder —> PD Initial Train
    • Though should change analysis script to include no. trials because no. images = 0 for PR
. **Max Number Trials** – 30
. **Max Schedule Time** = 3600
. **End Summary – Condition** = greater than "0"
. **End Summary – No. Images** = greater than "0"
      (should be no. trials, not no. images; no. images = 0)
. **End Summary – Condition** has to be equal to **"3600"** if the **End Summary – No. Images** is less than "30"
      (again, should be no. trials)

. End Summary – No. Images has to be equal to "30" if the **End Summary – Condition** is less than "3600"
  (again, should be no. trials)

4) Schedule name has to contain **- "Must Touch"**
Each animal ID has to have **AT LEAST ONE (1)** "Must Touch" session in the entire project life cycle.
 • Can use VD Analysis Folder —> PD Must Touch
. Max Number Trials – 30
. Max Schedule Time = 3600
. 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".

From 5) onward: Must be present for all PR data, regardless if PR is the only task performed or one of many.

5) Schedule name has to contain **- "FR 1 Training"**
Each animal ID has to have **AT LEAST ONE (1)** "Fixed Ratio 1" session in the entire project life cycle.
 • Analysis script: PR Analysis Folder —> FR PR Analysis
. Max Number Trials – 30
. Max Schedule Time = 3600
. END SUMMARY – Schedule Length = greater than "0"
. END SUMMARY – Trials Completed = greater than "0"
. END SUMMARY – Schedule Length 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 – Schedule Length** is less than "3600".

6) Schedule name has to contain - **"FR 2 Training"**
Each animal ID has to have **AT LEAST ONE (1)** "Fixed Ratio 2" session in the entire project life cycle.
   • Analysis script: PR Analysis Folder —> FR PR Analysis
. **Max Number Trials** – 30
. **Max Schedule Time** = 3600
. **END SUMMARY – Schedule Length** = greater than "0"
. **END SUMMARY – Trials Completed** = greater than "0"
. **END SUMMARY – Schedule Length** 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 – Schedule Length** is less than "3600".

7) Schedule name has to contain - **"FR 3 Training"**
Each animal ID has to have **AT LEAST ONE (1)** "Fixed Ratio 3" session in the entire project life cycle.
   • Analysis script: PR Analysis Folder —> FR PR Analysis
. **Max Number Trials** – 30
. **Max Schedule Time** = 3600
. **END SUMMARY – Schedule Length** = greater than "0"
. **END SUMMARY – Trials Completed** = greater than "0"
. **END SUMMARY – Schedule Length** 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 – Schedule Length** is less than "3600".

8) Schedule name has to contain - **"FR 5 Training"**
Each animal ID has to have **AT LEAST FOUR (4) OR SEVEN (7)** "Fixed Ratio 5" sessions for **each database.**

- 4 sessions: If basic PR only and one day of FR-5 training after FR-3 training (I always did 3 days of FR-5 after FR-3 training)
- 7 sessions: If including high demand PR and one day of FR-5 training after FR-3 training (I always did 3 days of FR-5 after FR-3 training)
- Analysis script: PR Analysis Folder —> FR PR Analysis

. **Max Number Trials** – 30

. **Max Schedule Time** = 3600

. **END SUMMARY – Schedule Length** = greater than "0"

. **END SUMMARY – Trials Completed** = greater than "0"

. **END SUMMARY – Schedule Length** 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 – Schedule Length** is less than "3600".

9) Schedule name has to contain - **"PROGRESSIVE RATIO - PR 4"**

Each animal ID has to have **AT LEAST SIX (6) OR EIGHT (8)** "PROGRESSIVE RATIO - PR 4" sessions for <mark>each database</mark>.

- 6 sessions if only completing basic PR
- 8 sessions if including high demand PR
- Analysis script: PR Analysis Folder —> FR PR Analysis

. **Max Number Trials** – no value/unlimited

. **Max Schedule Time** = 3600

. **END SUMMARY – Schedule Length** = greater than "0"

10) - 12) = Optional (10 & 11 = High demand PR; 12 = Uncapped FR-5)

10) Schedule name has to contain - **"PROGRESSIVE RATIO - PR 8 - HIGH DEMAND"**

Each animal ID has to have **AT LEAST TWO (2)** "PR 8" sessions for <mark>each database</mark>.
  • Analysis script: PR Analysis Folder —> FR PR Analysis
. **Max Number Trials** – no value/unlimited
. **Max Schedule Time** = 3600
. **END SUMMARY – Schedule Length** = greater than "0"

11) Schedule name has to contain - **"PROGRESSIVE RATIO - PR 12 - HIGH DEMAND"**
Each animal ID has to have **AT LEAST TWO (2)** "PR 12" sessions for <mark>each database</mark>.
  • Analysis script: PR Analysis Folder —> FR PR Analysis
. **Max Number Trials** – no value/unlimited
. **Max Schedule Time** = 3600
. **END SUMMARY – Schedule Length** = greater than "0"

12) Schedule name has to contain - **"FR 5 TRAINING"**
Each animal ID has to have **AT LEAST THREE (3)** "FR 5 Training" sessions for <mark>each database</mark>.
  • Analysis script: PR Analysis Folder —> FR PR Analysis
. **Max Number Trials** – no value/unlimited
. **Max Schedule Time** = 3600
. **END SUMMARY – Schedule Length** = 3600

Quality Control Parameters for Post-PR Extinction Learning (Optional)

1) Schedule name has to contain **- "FR 1 Baseline**"
Each animal ID has to have **AT LEAST THREE (3)** "FR 1 Baseline" sessions in the entire project life cycle.
      (could also use "Extinction pt 1" schedule)
. **Max Number Trials** – 30
. **Max Schedule Time** = 3600

If using FR PR Analysis script, then:
. **END SUMMARY – Schedule Length** = greater than "0"
. **END SUMMARY – Trials Completed** = greater than "0"
. **END SUMMARY – Schedule Length** 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 – Schedule Length** is less than "3600".

If using Ext pt1 Analysis script (in Extinction Analysis Folder), then:
. **End Summary - Condition** = greater than "0"
. **End Summary - Corrects** = greater than "0"
. **E 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".

2) Schedule name has to contain **- "Extinction - FR 1 NO REWARD**"
Each animal ID has to have **AT LEAST TEN (10)** "Extinction - FR 1 NO REWARD" sessions in the entire project life cycle.
      (could also use "Extinction pt 2" schedule)
  • Analysis script: Extinction Analysis Folder —> Ext pt 2
. **Max Number Trials** – 30

. **Max Schedule Time** = 3600
. **End Summary - Condition** = greater than "0"