



## Opening

### VAPR-Voice (Variability in Auditory Perceptual Ratings of Voice) Version 1.1

This training module is designed to allow graduate students and clinicians in speech language pathology to learn and practice auditory perceptual ratings of voice using features found on the CAPE-V assessment. The basis of this training module is to provide trainees with a sense of the acceptable variability in auditory-perceptual ratings based on data from expert raters. Therefore, practice samples include information about rater variability as reported in the dataset by Walden (2022).

Sound files and the accompanying expert ratings are reported in publicly available data published by Walden, P.R. (2022). Perceptual Voice Qualities Database (PVQD): Database Characteristics. *Journal of Voice* 36(6), 875-e15.

Compiled by Zoe Kriegel, Ph.D. with support from graduate assistants at the University of Wyoming

## Contact Information

Please complete the following information prior to beginning the training modules.

Email Address

## Select Desired Mode: Observation or Practice

Select the desired mode to begin

- ☐ Observation Mode: Listen to samples and view 3 experts' ratings
- ☐ Practice Mode: Listen to samples, rate, and compare results with 3 experts' ratings

## Practice Mode: Select Practice Category

Select the auditory perceptual feature you'd like to practice first:

- ☐ Roughness
- ☐ Breathiness
- ☐ Strain
- ☐ Severity
- ☐ All Features

Practice: All Auditory-Perceptual Features

▶ 0:00 / 0:13

🔊 ⋮

PT130

0102030405060708090100

Overall Severity

0

Roughness

0

Breathiness

0

Strain

0

▶ 0:00 / 0:13

🔊 ⋮

PT130

DO NOT MOVE THESE RATINGS. The following are the mean ratings from experts at two timepoints with the SD displayed in parentheses. Moving the sliders will remove the expert rating values.

0102030405060708090100

Your Rating: Severity

$\{q://Q\}$

Your Rating: Roughness

$\{q://Q\}$

Your Rating: Breathiness

$\{q://Q\}$

Your Rating: Strain

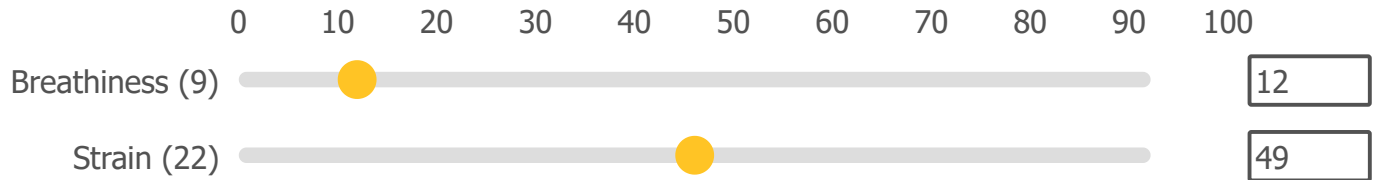
$\{q://Q\}$

Overall Severity (18)

47

Roughness (8)

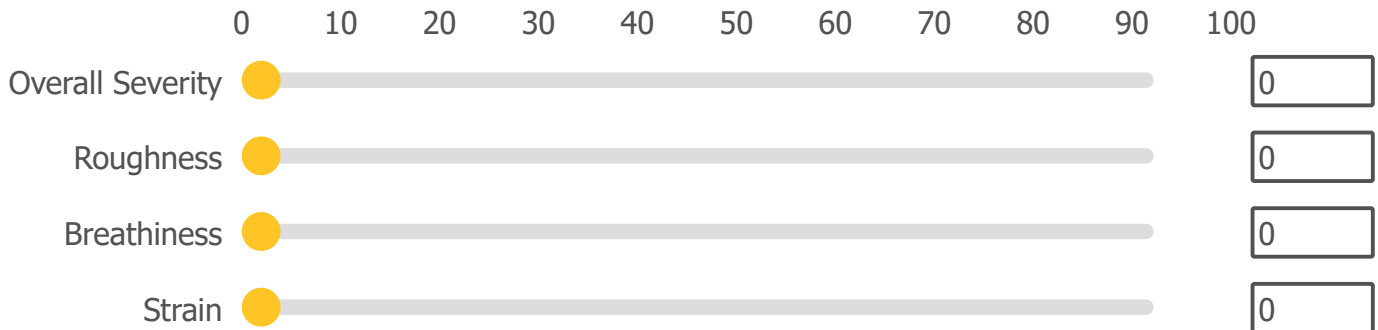
14



▶ 0:00 / 0:28



PT032

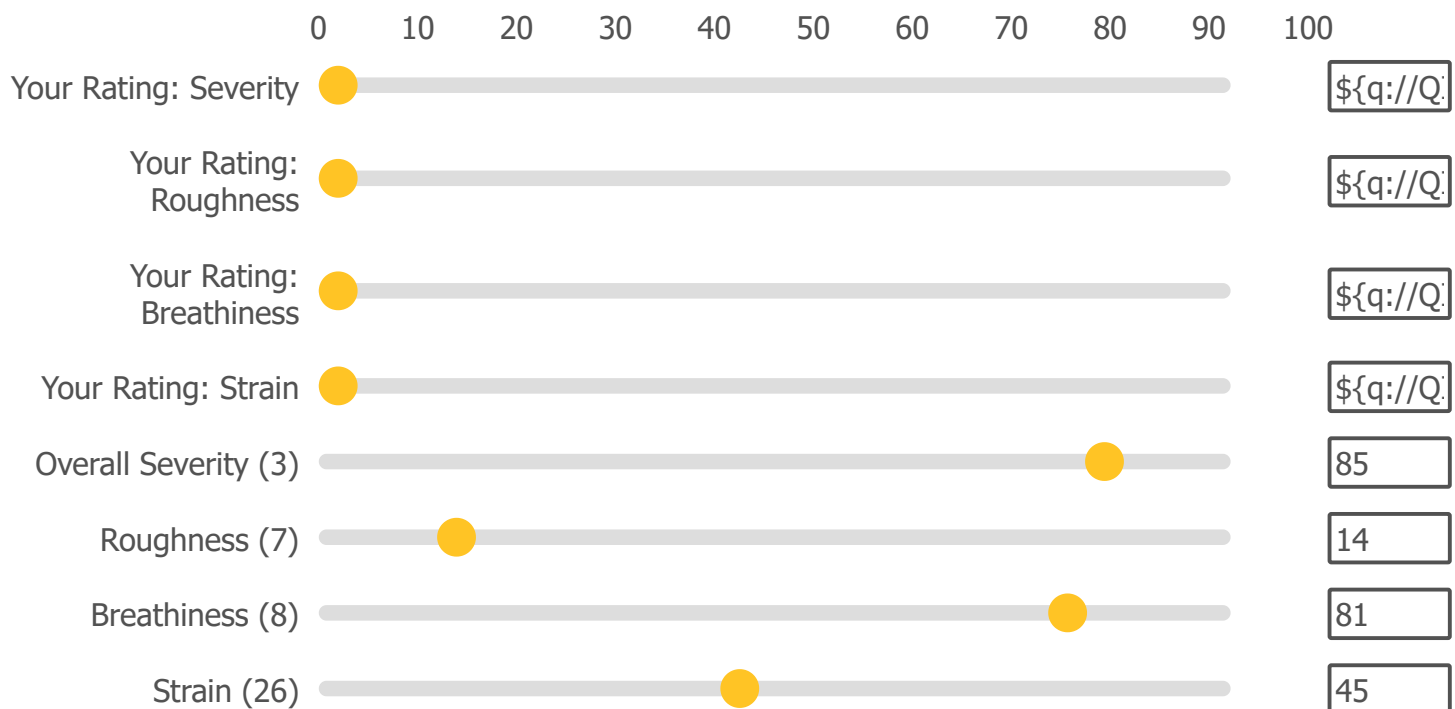


▶ 0:00 / 0:28



PT032

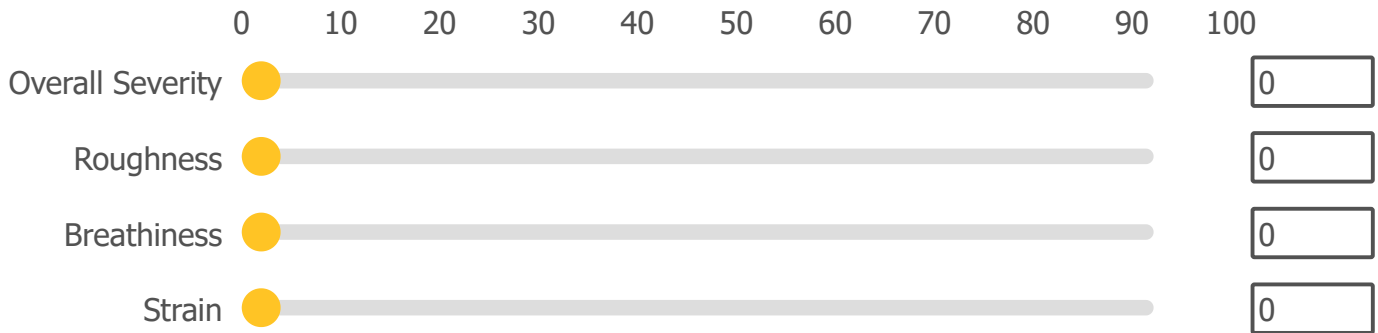
DO NOT MOVE THESE RATINGS. The following are the mean ratings from experts at two timepoints with the SD displayed in parentheses. Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:19



PT102

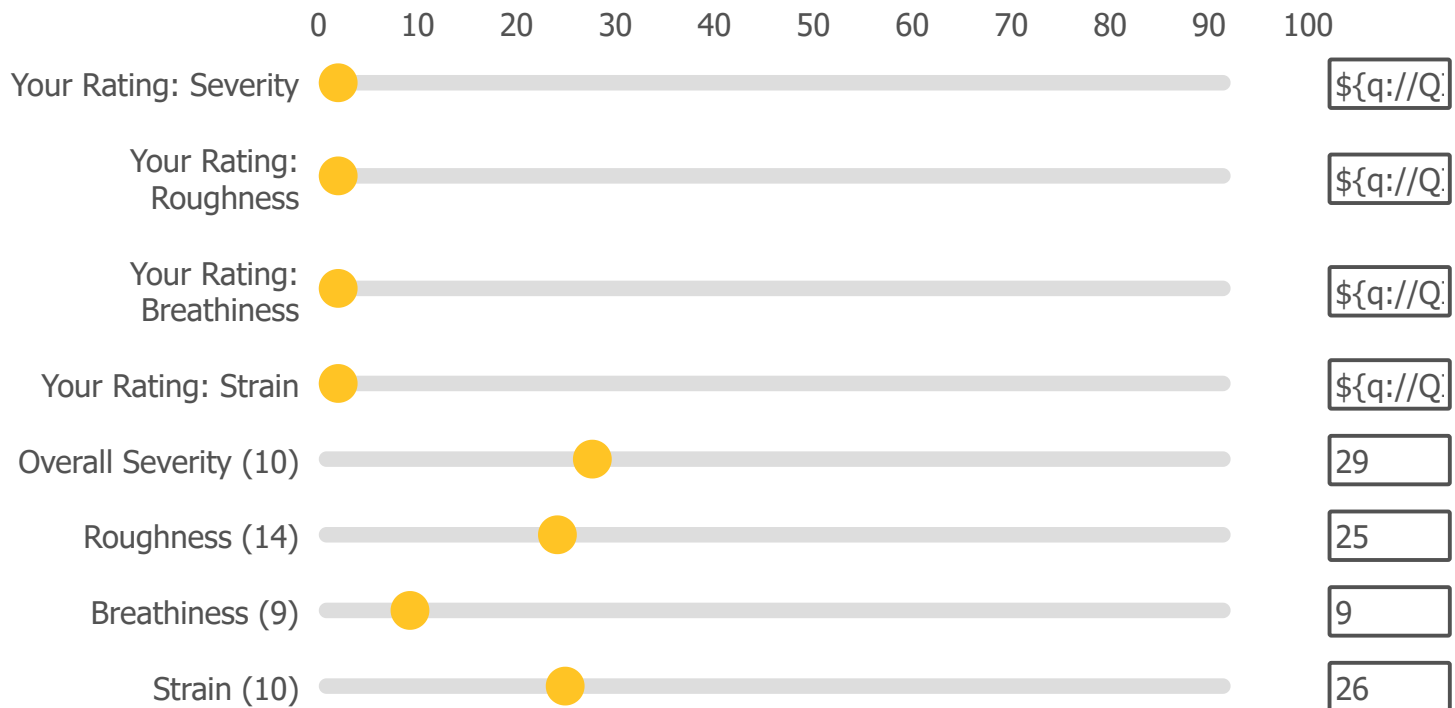


▶ 0:00 / 0:19



PT102

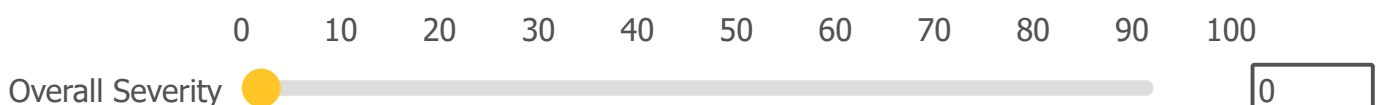
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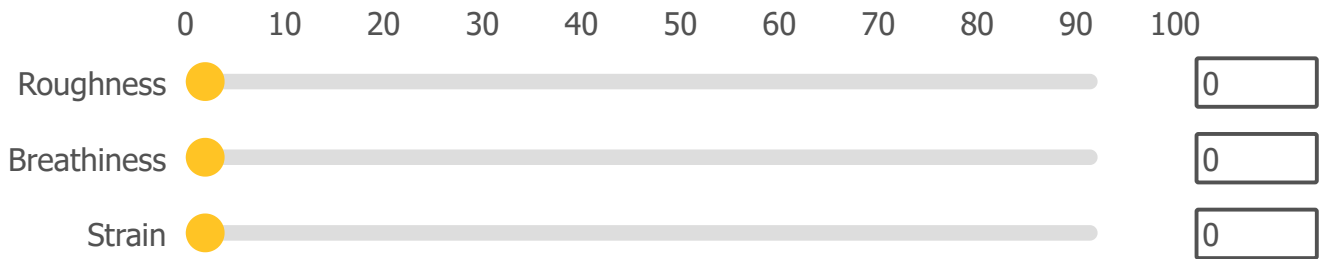


▶ 0:00 / 0:28



PT058



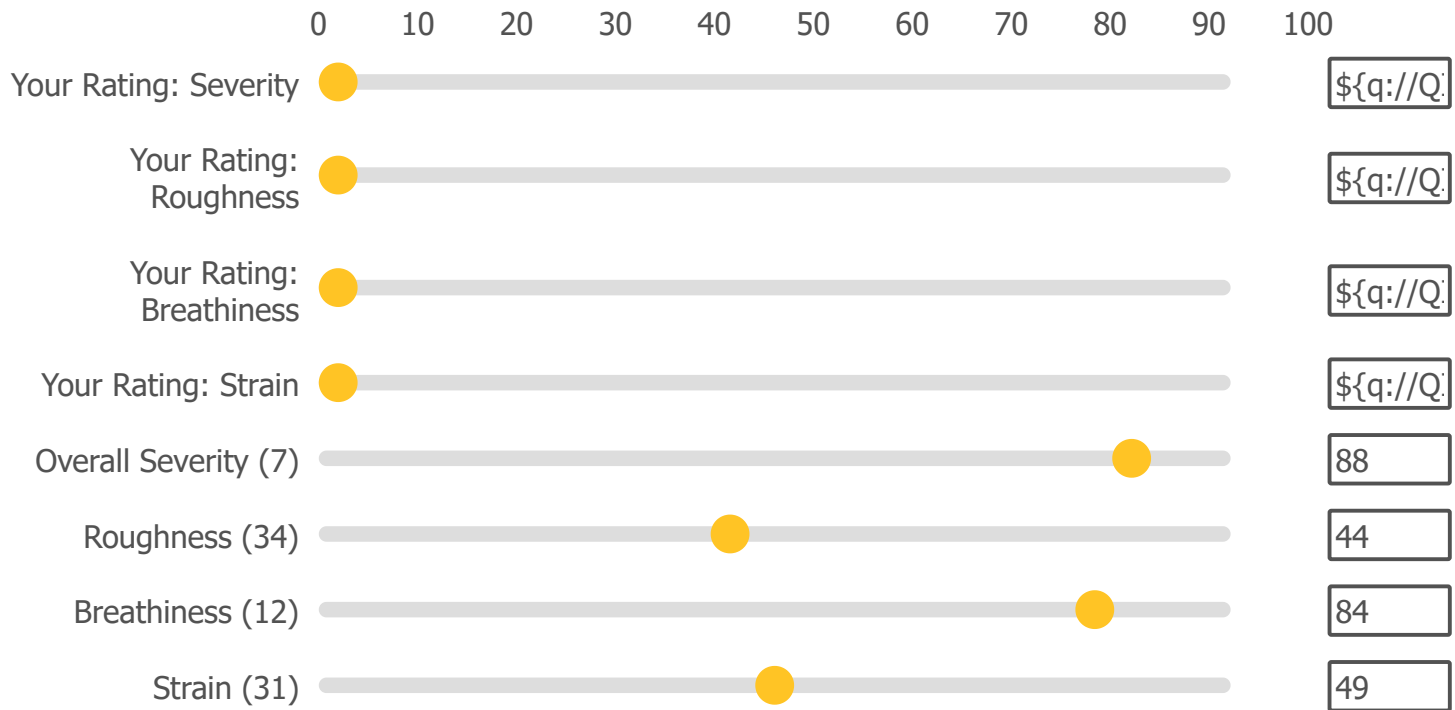


▶ 0:00 / 0:28



PT058

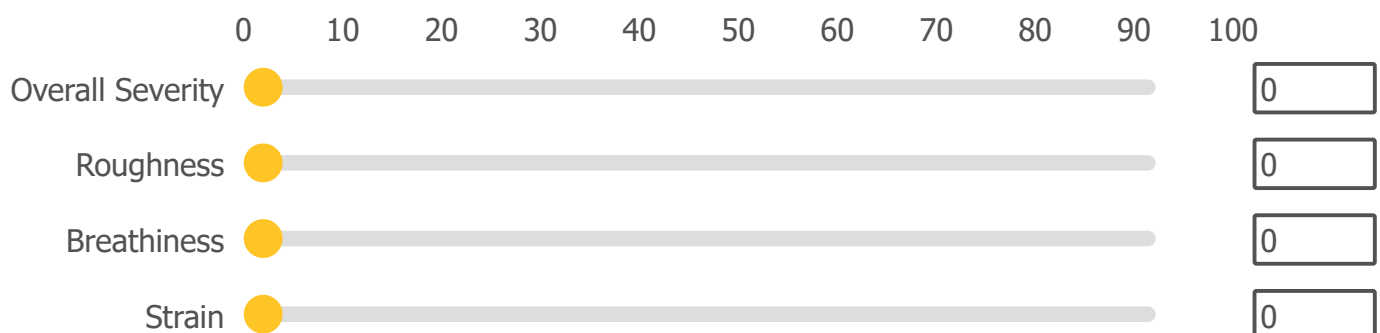
DO NOT MOVE THESE RATINGS. The following are the mean ratings from experts at two timepoints with the SD displayed in parentheses. Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:11



PT119

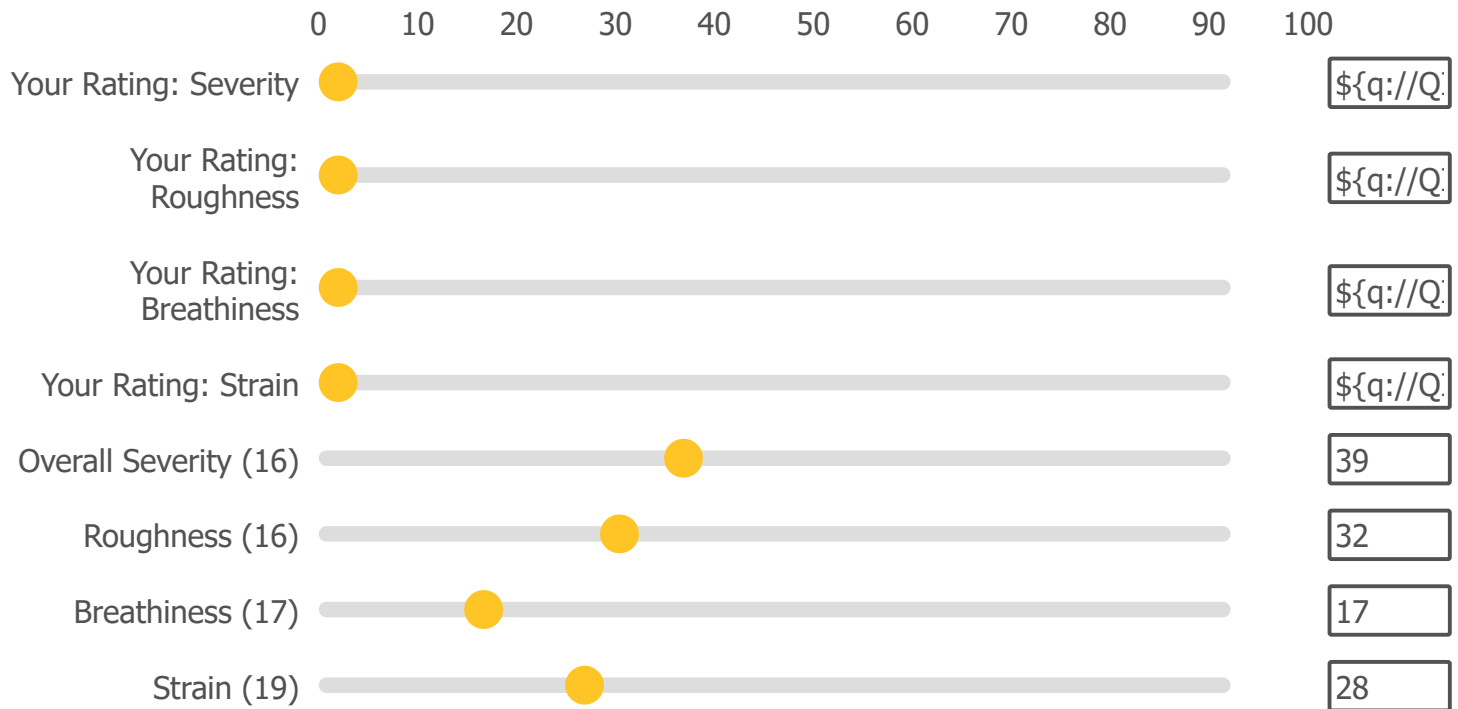


▶ 0:00 / 0:11



PT119

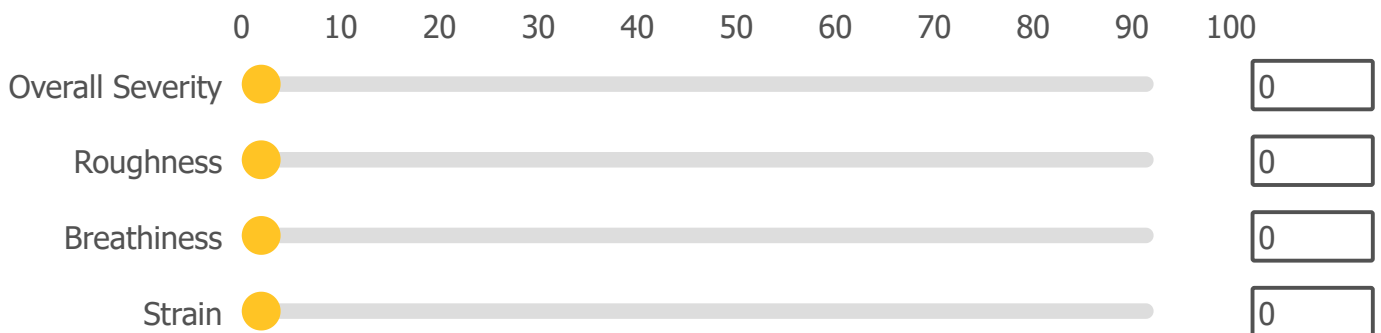
DO NOT MOVE THESE RATINGS. The following are the mean ratings from experts at two timepoints with the SD displayed in parentheses. Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:22



NYU1005

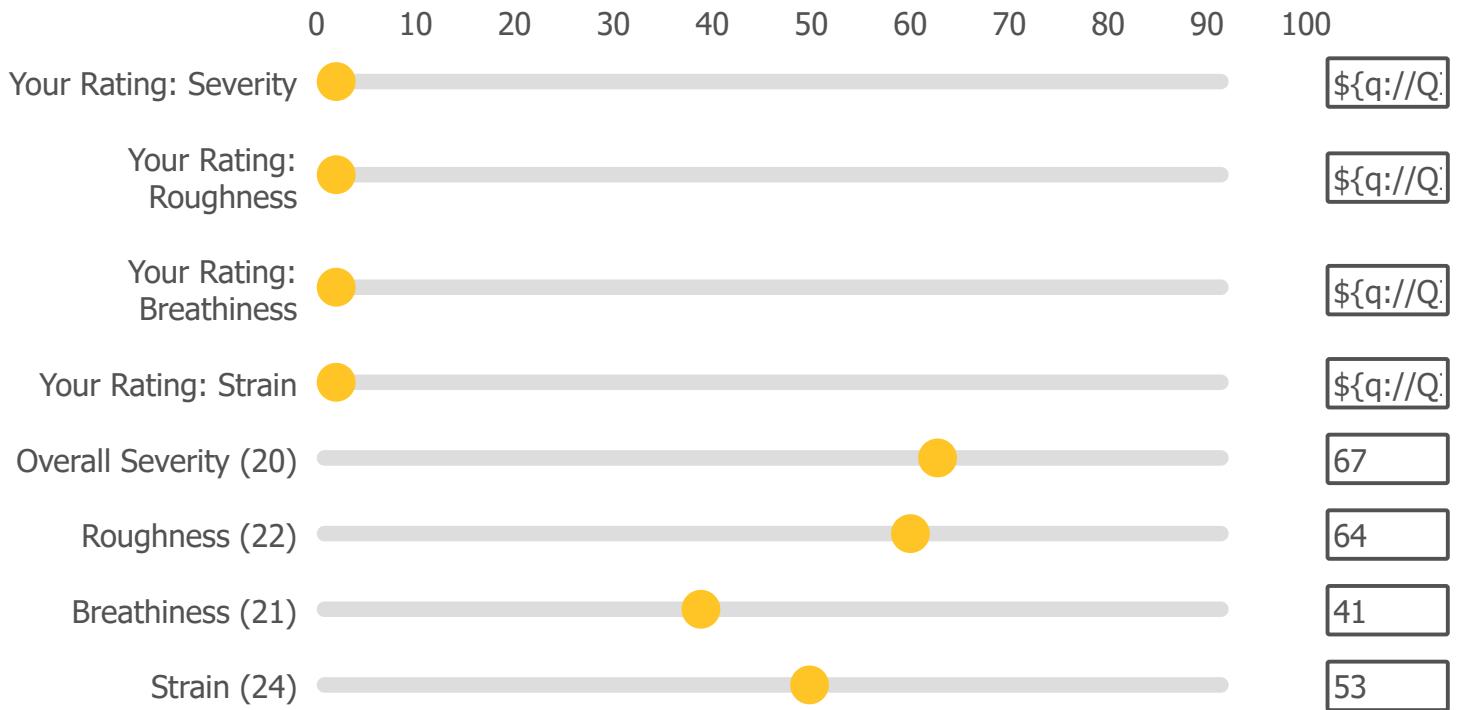


▶ 0:00 / 0:22



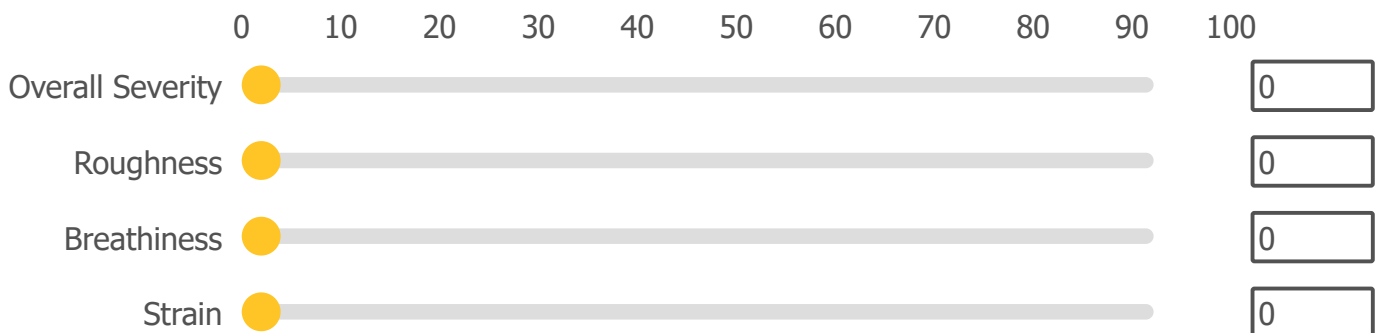
NYU1005

DO NOT MOVE THESE RATINGS. The following are the mean ratings from experts at two timepoints with the SD displayed in parentheses. Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:33  🔊 ⋮

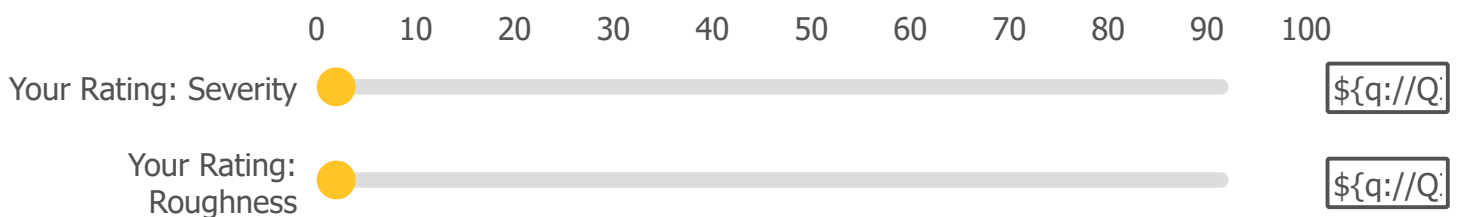
BL02

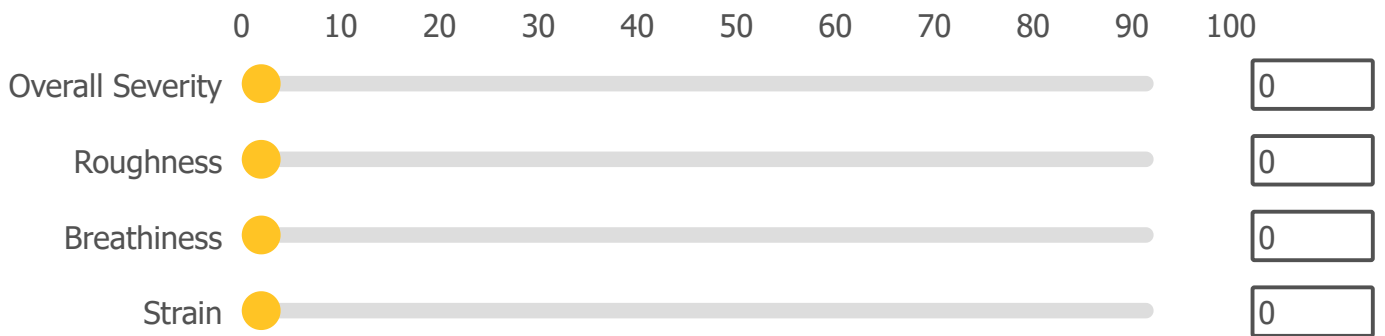


▶ 0:00 / 0:33  🔊 ⋮

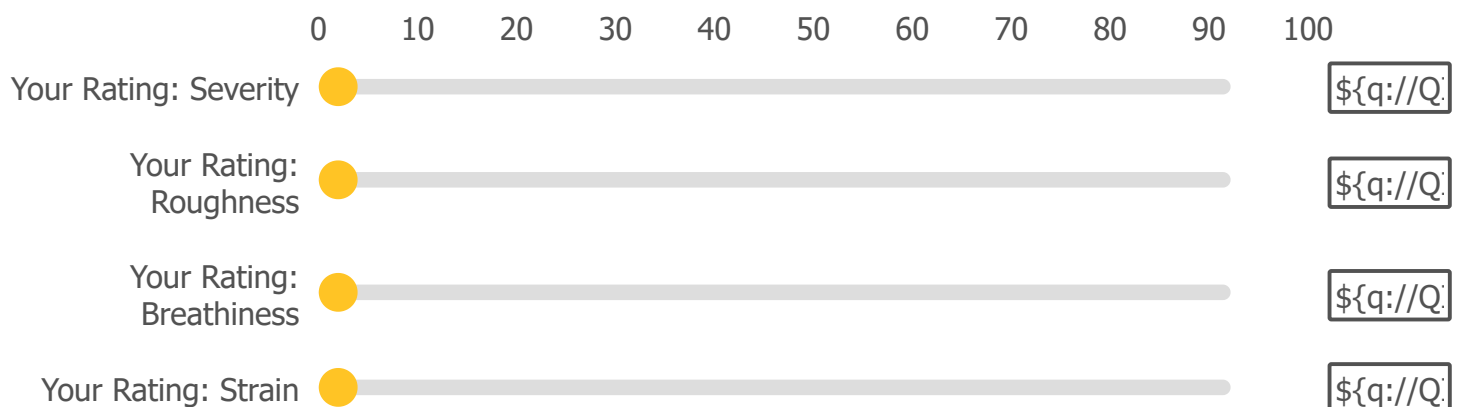
BL02

DO NOT MOVE THESE RATINGS. The following are the mean ratings from experts at two timepoints with the SD displayed in parentheses. Moving the sliders will remove the expert rating values.

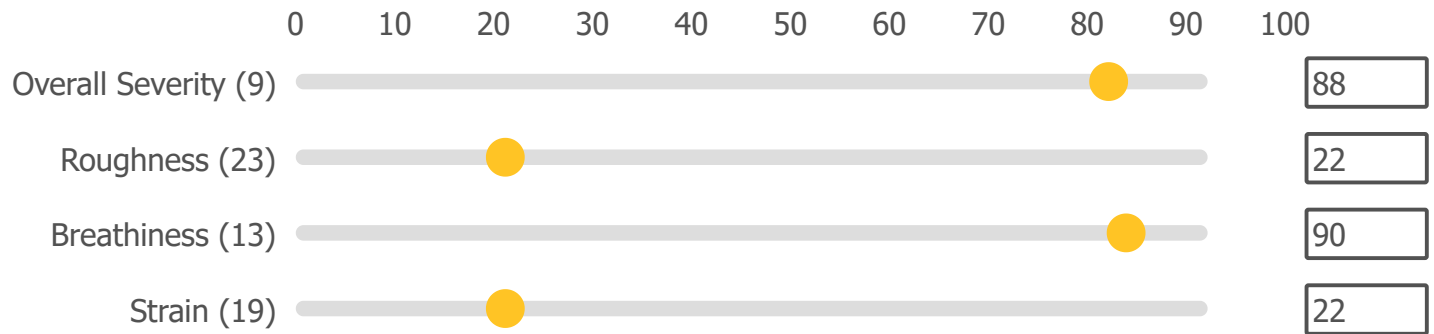




DO NOT MOVE THESE RATINGS. The following are the mean ratings from experts at two timepoints with the SD displayed in parentheses. Moving the sliders will remove the expert rating values.



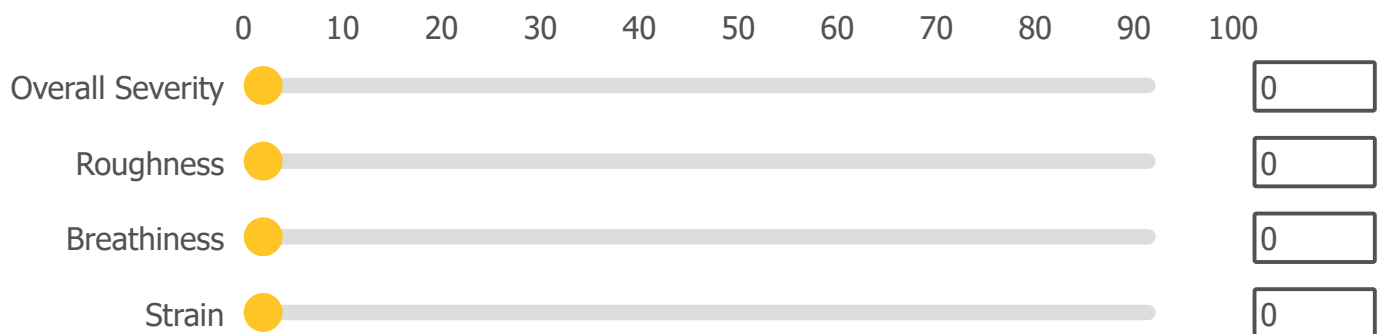




▶ 0:00 / 0:28



PT058

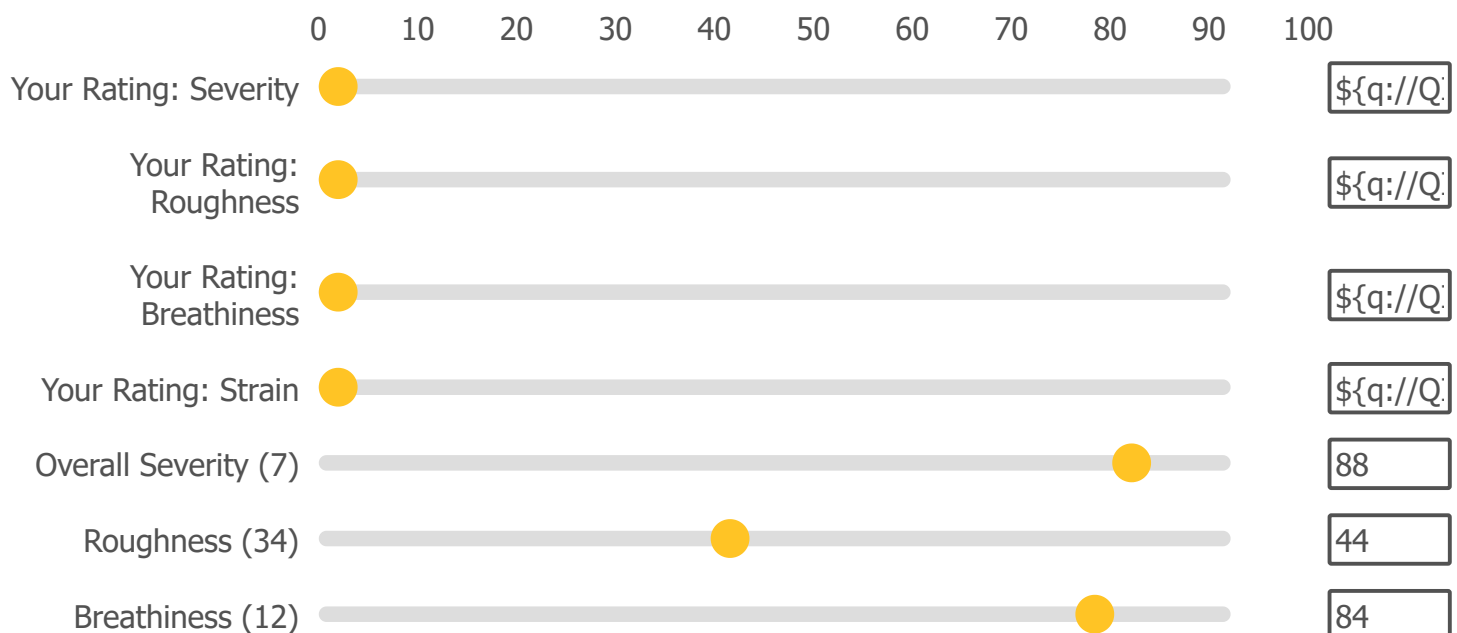


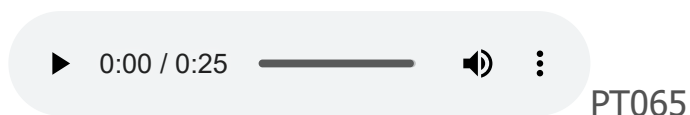
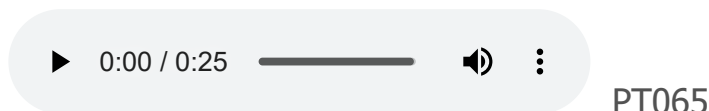
▶ 0:00 / 0:28



PT058

DO NOT MOVE THESE RATINGS. The following are the mean ratings from experts at two timepoints with the SD displayed in parentheses. Moving the sliders will remove the expert rating values.





0 10 20 30 40 50 60 70 80 90 100

Your Rating: Severity

Your Rating: Roughness

Your Rating: Breathiness

Your Rating: Strain

Overall Severity (18)

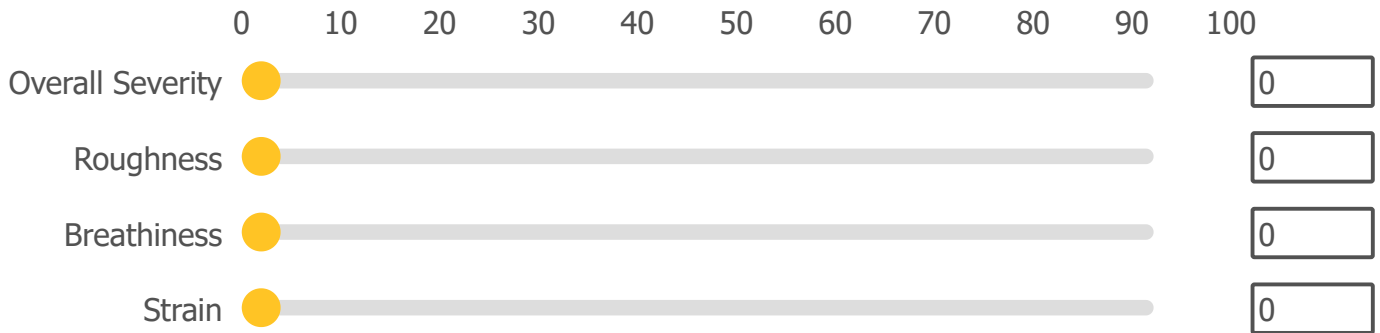
Roughness (8)

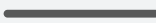


Breathiness (9)

Strain (22)

▶ 0:00 / 0:28   

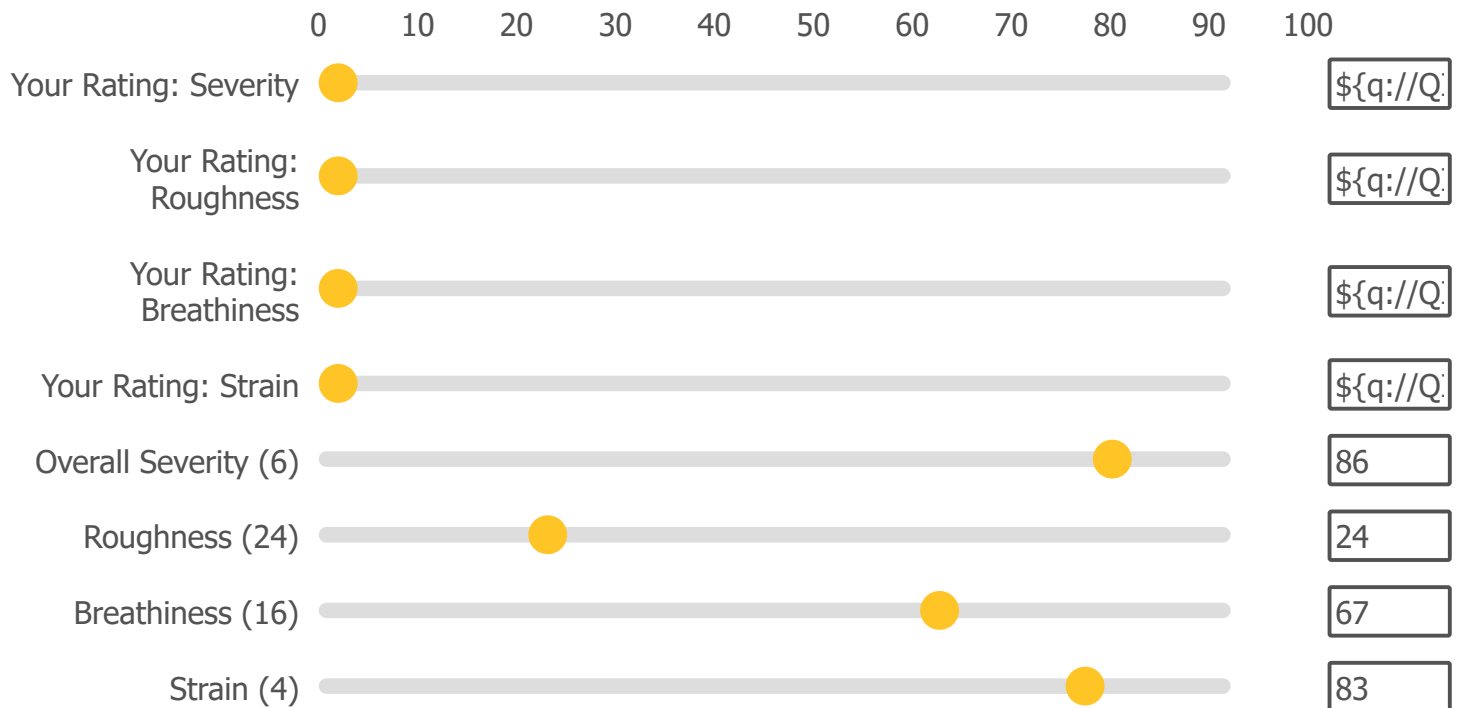
LA5003



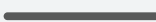


▶ 0:00 / 0:28   

LA5003

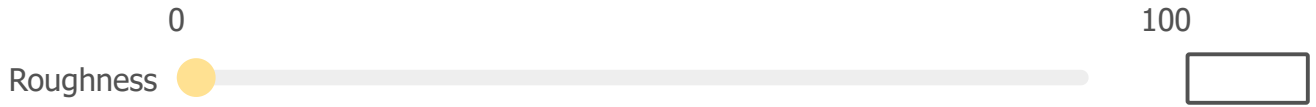
DO NOT MOVE THESE RATINGS. The following are the mean ratings from experts at two timepoints with the SD displayed in parentheses. Moving the sliders will remove the expert rating values.



## Practice: Roughness

▶ 0:00 / 0:19   

LA7011

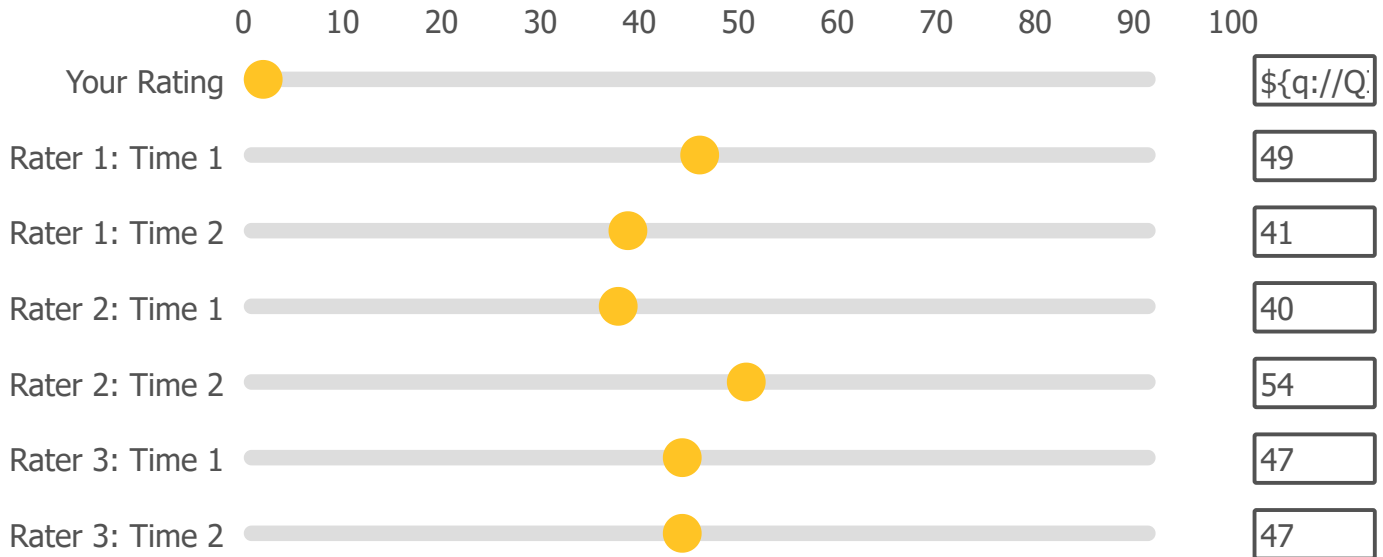


▶ 0:00 / 0:19



LA7011

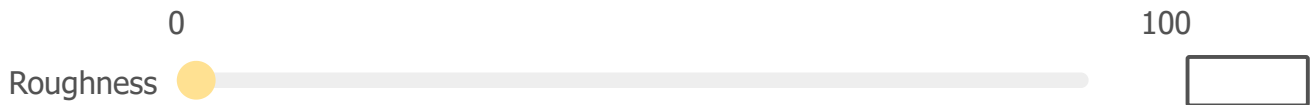
DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints.  
Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:27



PT014

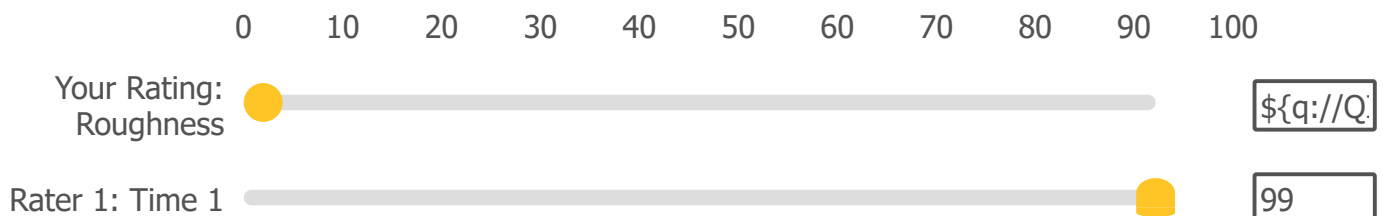


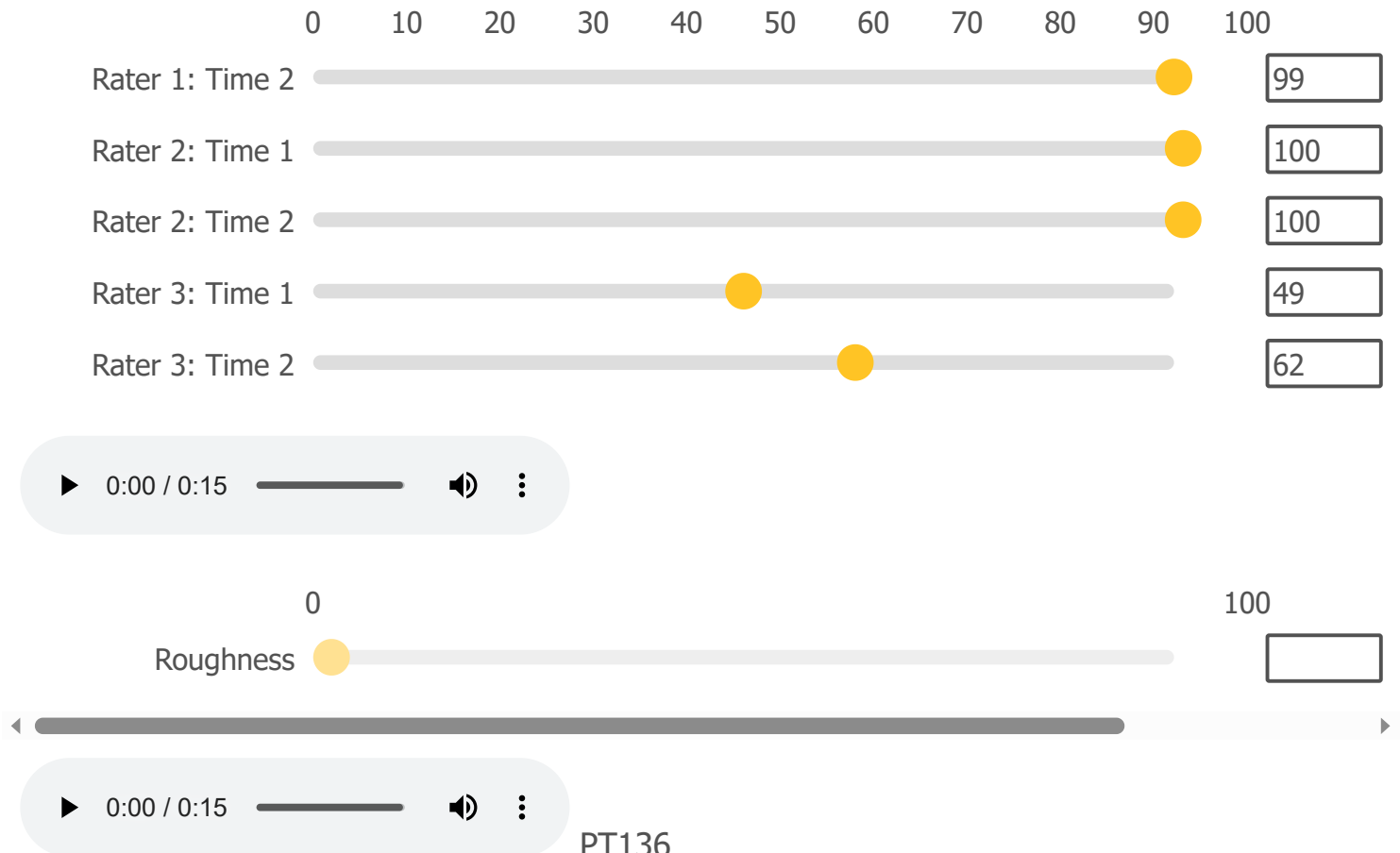
▶ 0:00 / 0:27



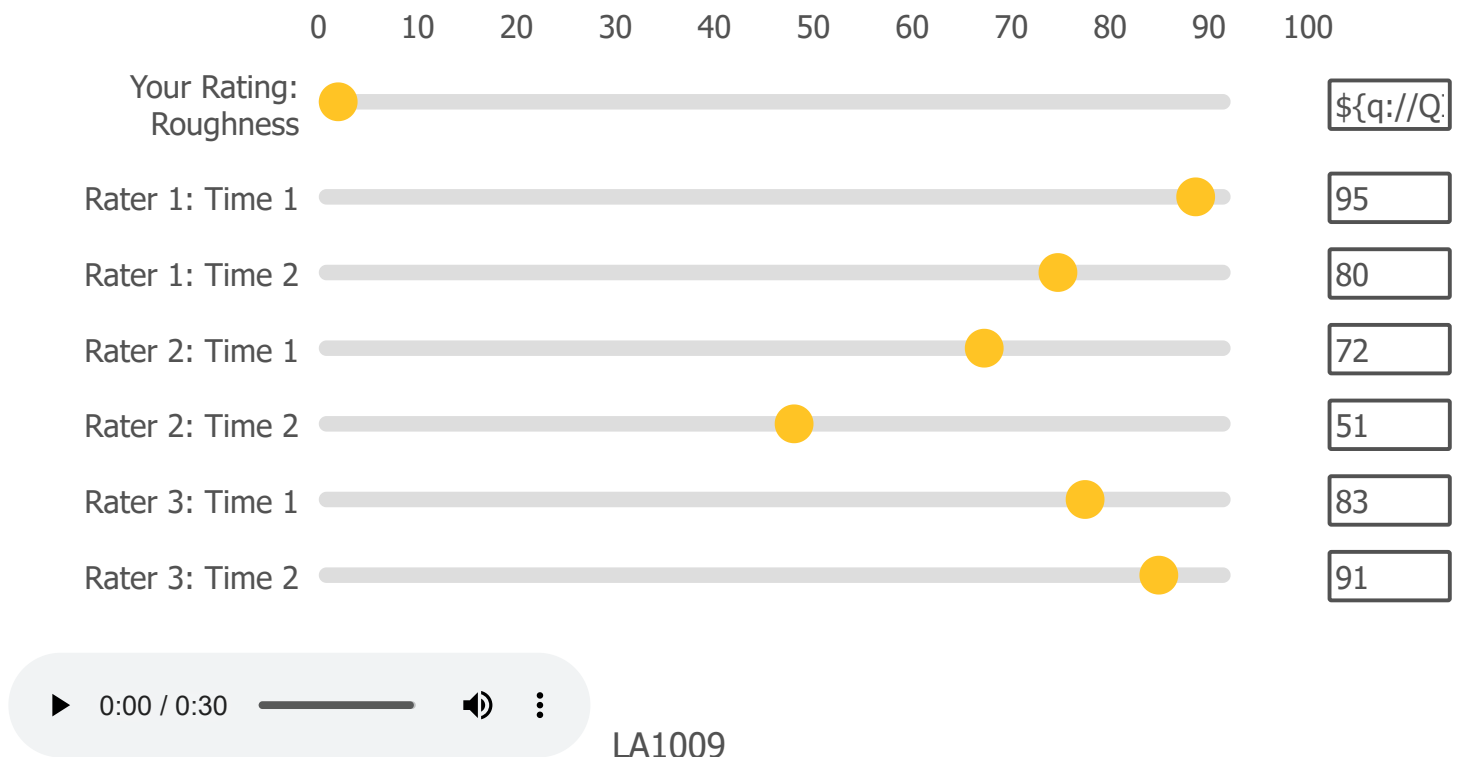
PT014

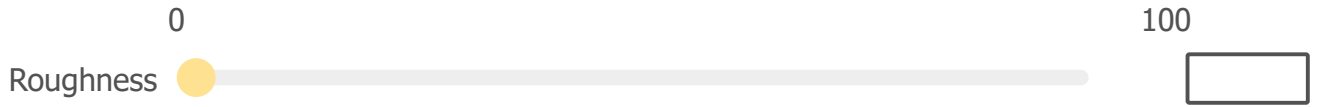
DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints.  
Moving the sliders will remove the expert rating values.





DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints. Moving the sliders will remove the expert rating values.



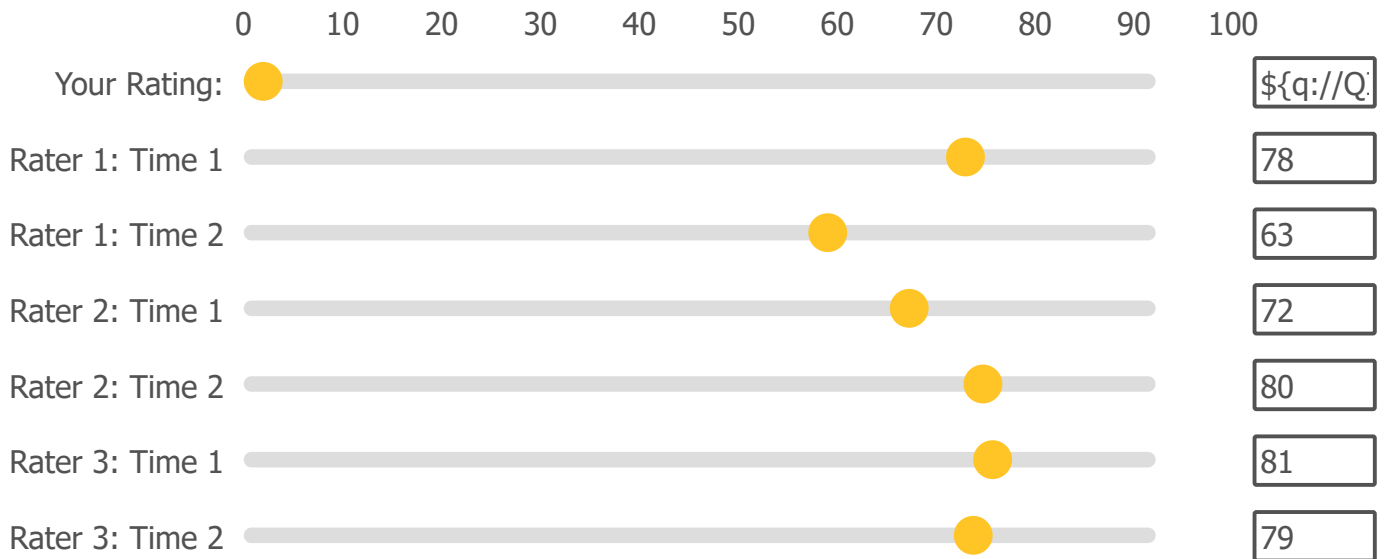


▶ 0:00 / 0:30



LA1009

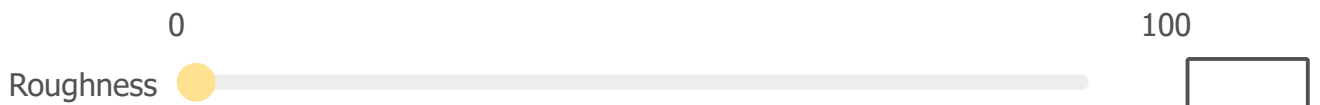
DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints.  
Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:22



NYU1005

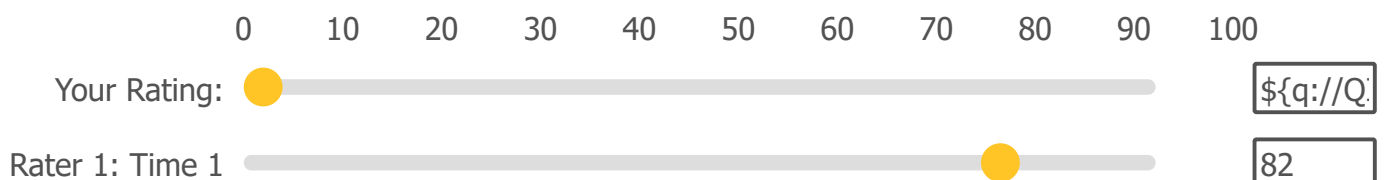


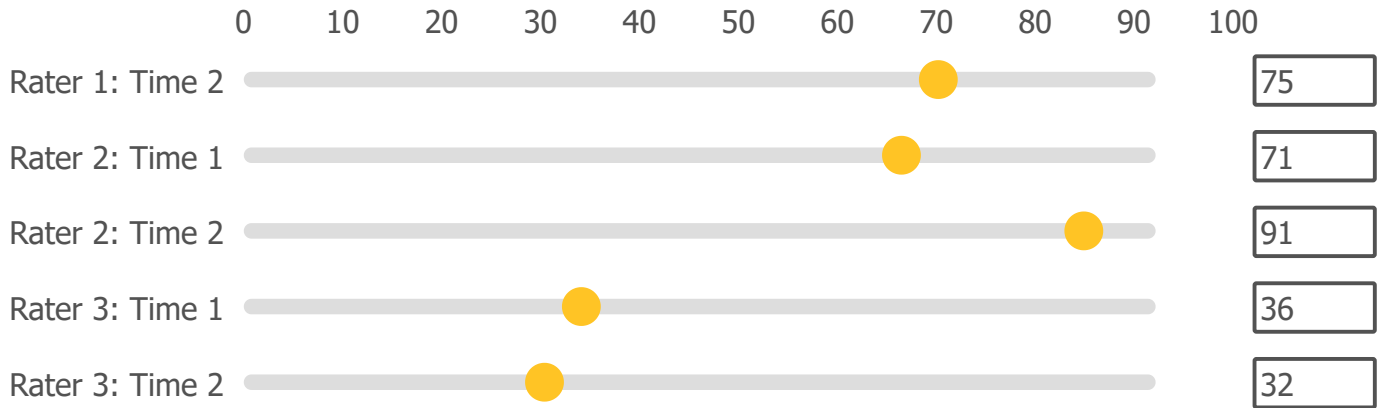
▶ 0:00 / 0:22



NYU1005

DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints.  
Moving the sliders will remove the expert rating values.

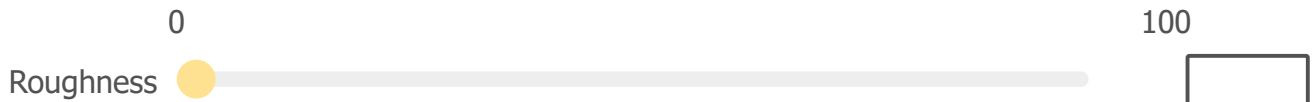




▶ 0:00 / 0:33



BL02

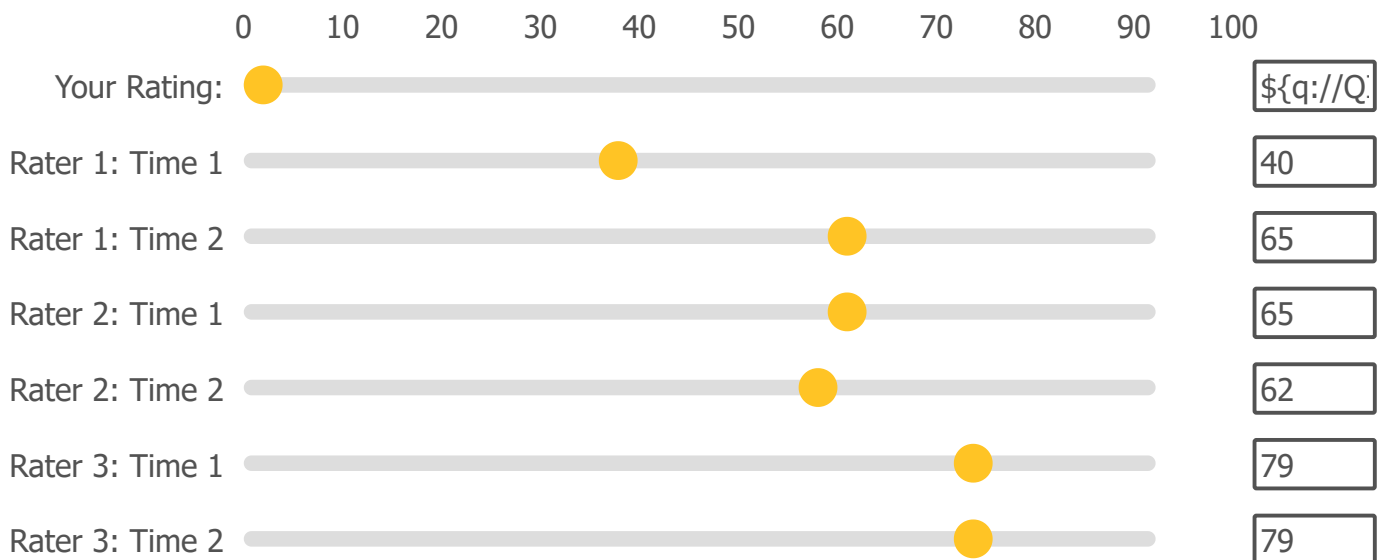


▶ 0:00 / 0:33



BL02

DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints. Moving the sliders will remove the expert rating values.



## Practice: Strain

▶ 0:00 / 0:19



PT019

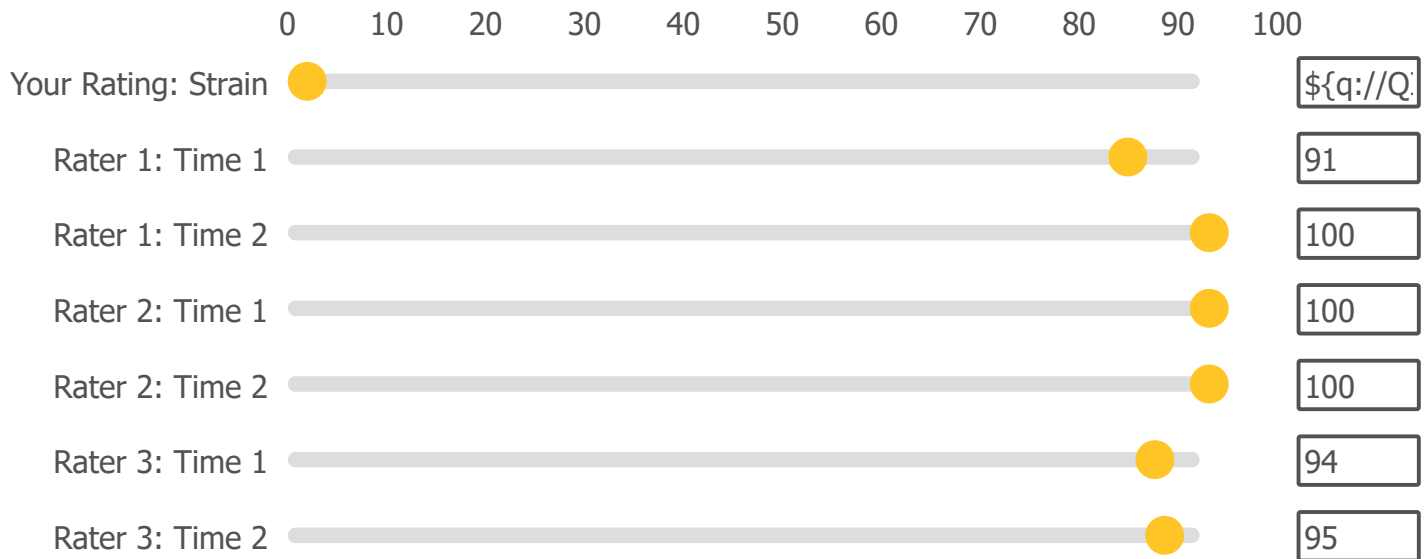


▶ 0:00 / 0:19



PT019

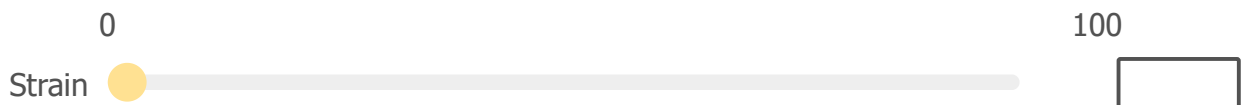
DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints.  
Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:28



LA5003

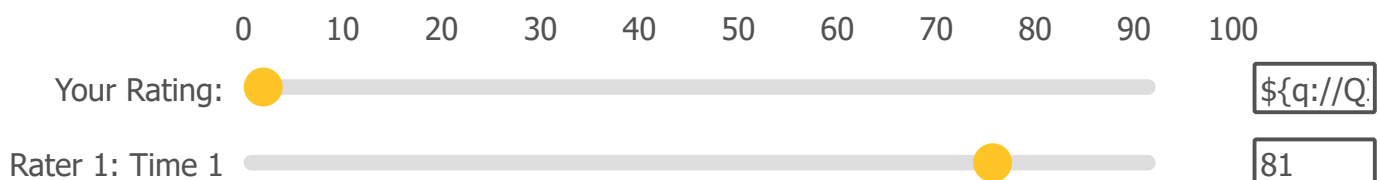


▶ 0:00 / 0:28

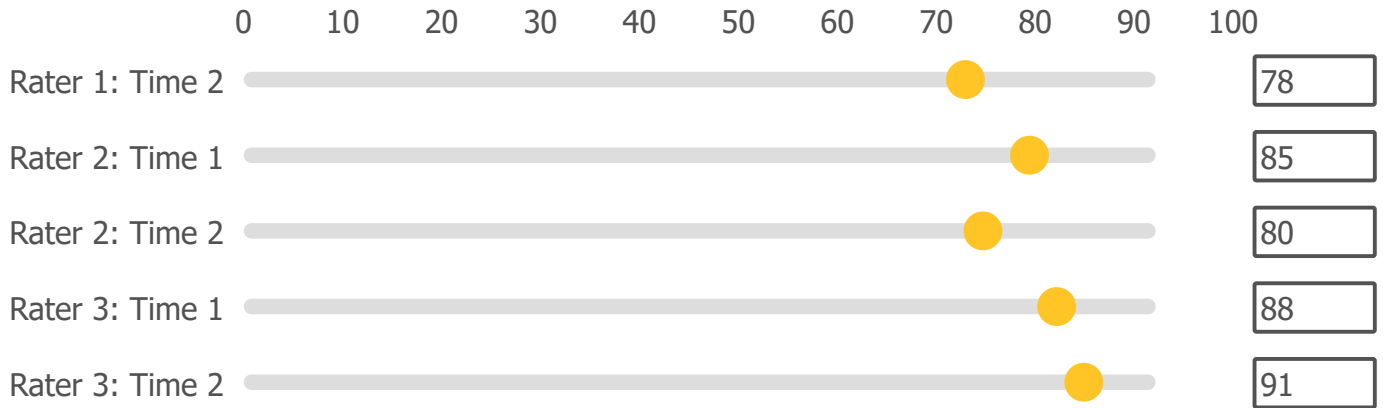


LA5003

DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints.  
Moving the sliders will remove the expert rating values.

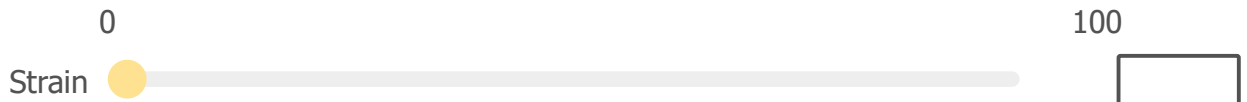






▶ 0:00 / 0:24 🔊 ⋮

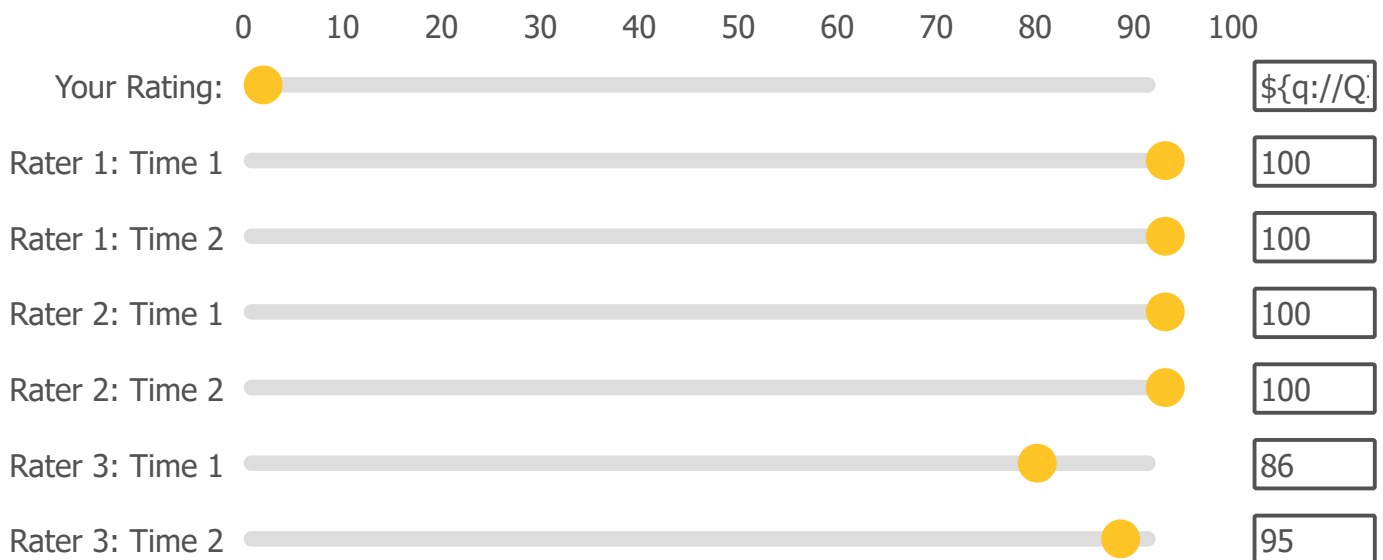
PT015



▶ 0:00 / 0:24 🔊 ⋮

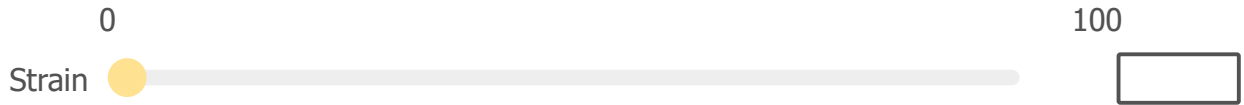
PT015

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▶ 0:00 / 0:15 🔊 ⋮

PT126

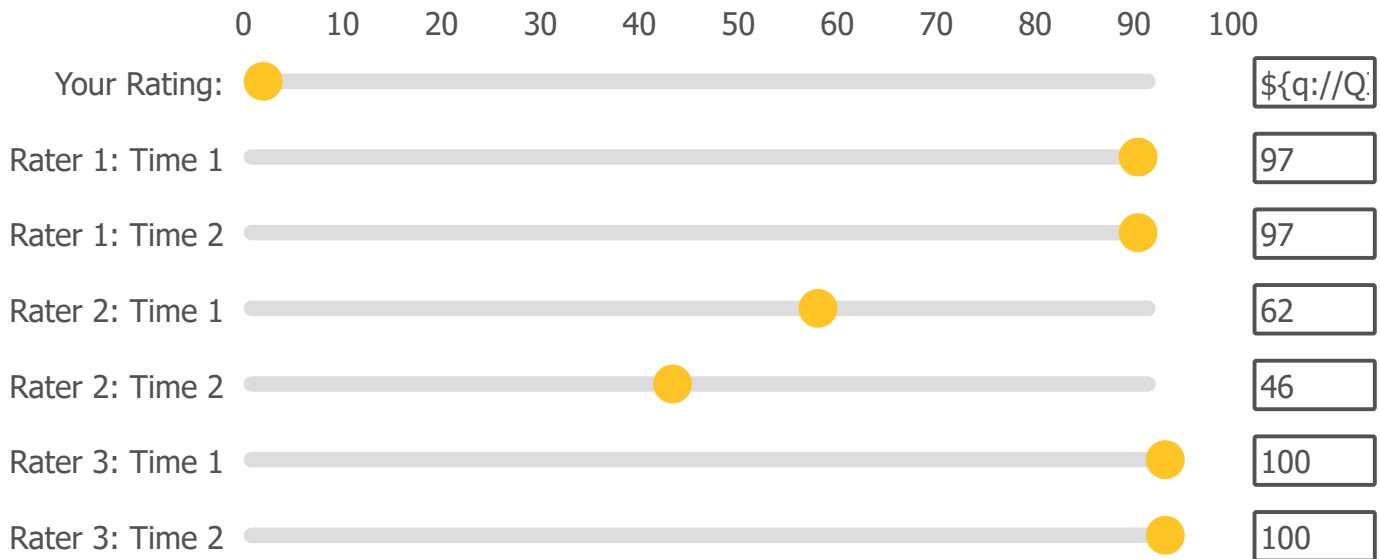


▶ 0:00 / 0:15



PT126

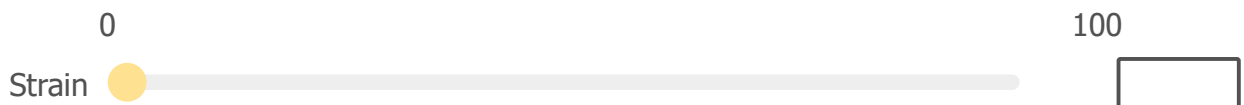
DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints.  
Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:25



PT065

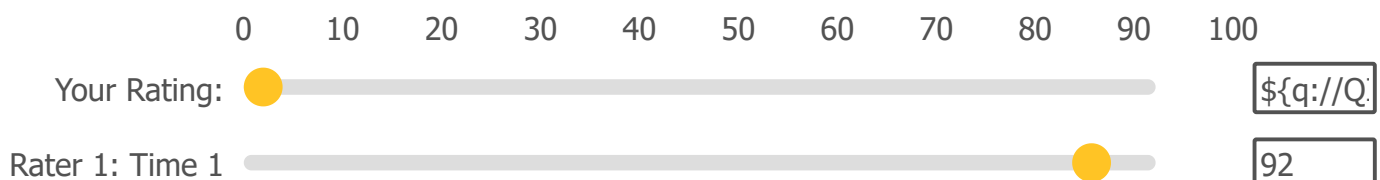


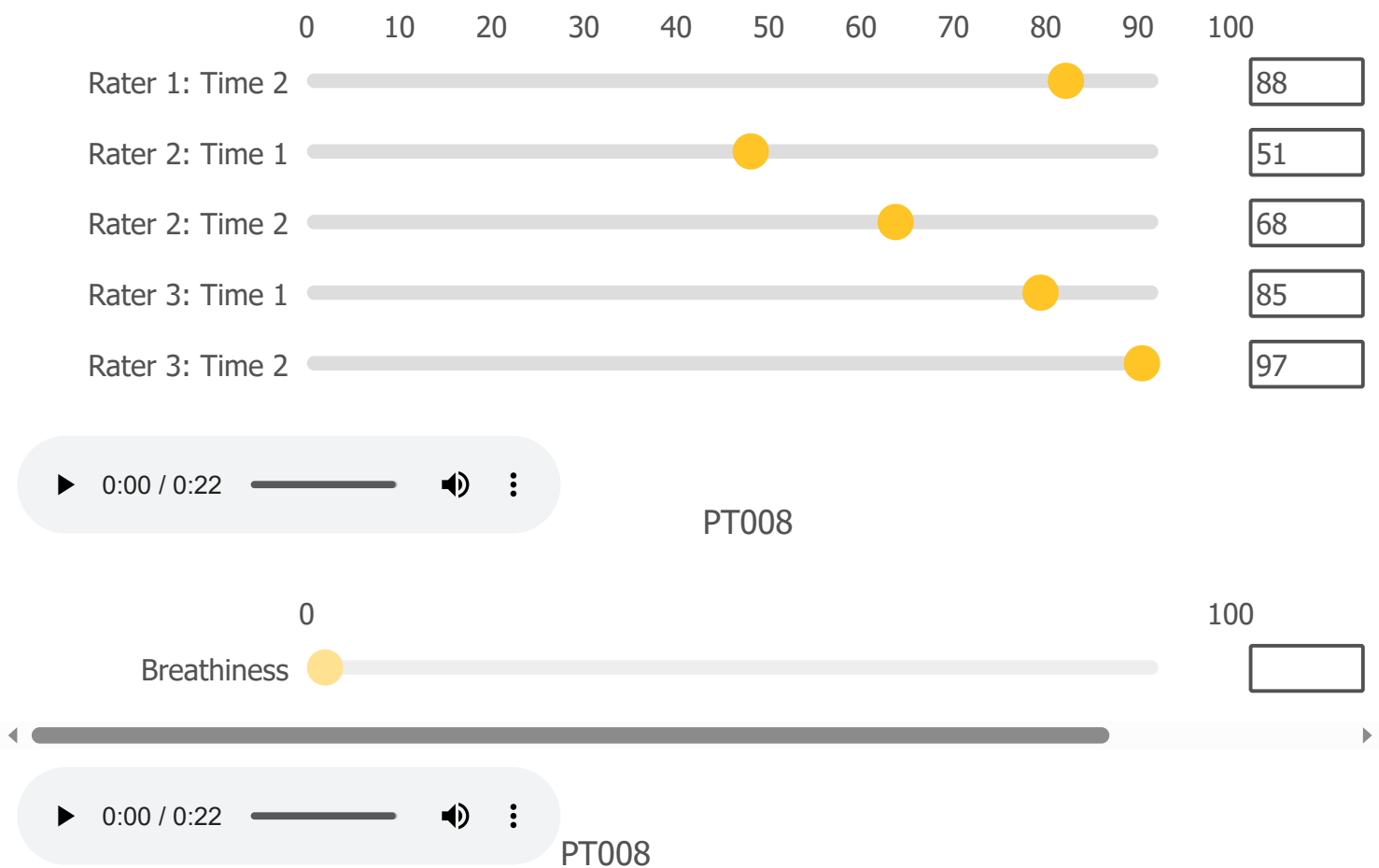
▶ 0:00 / 0:25



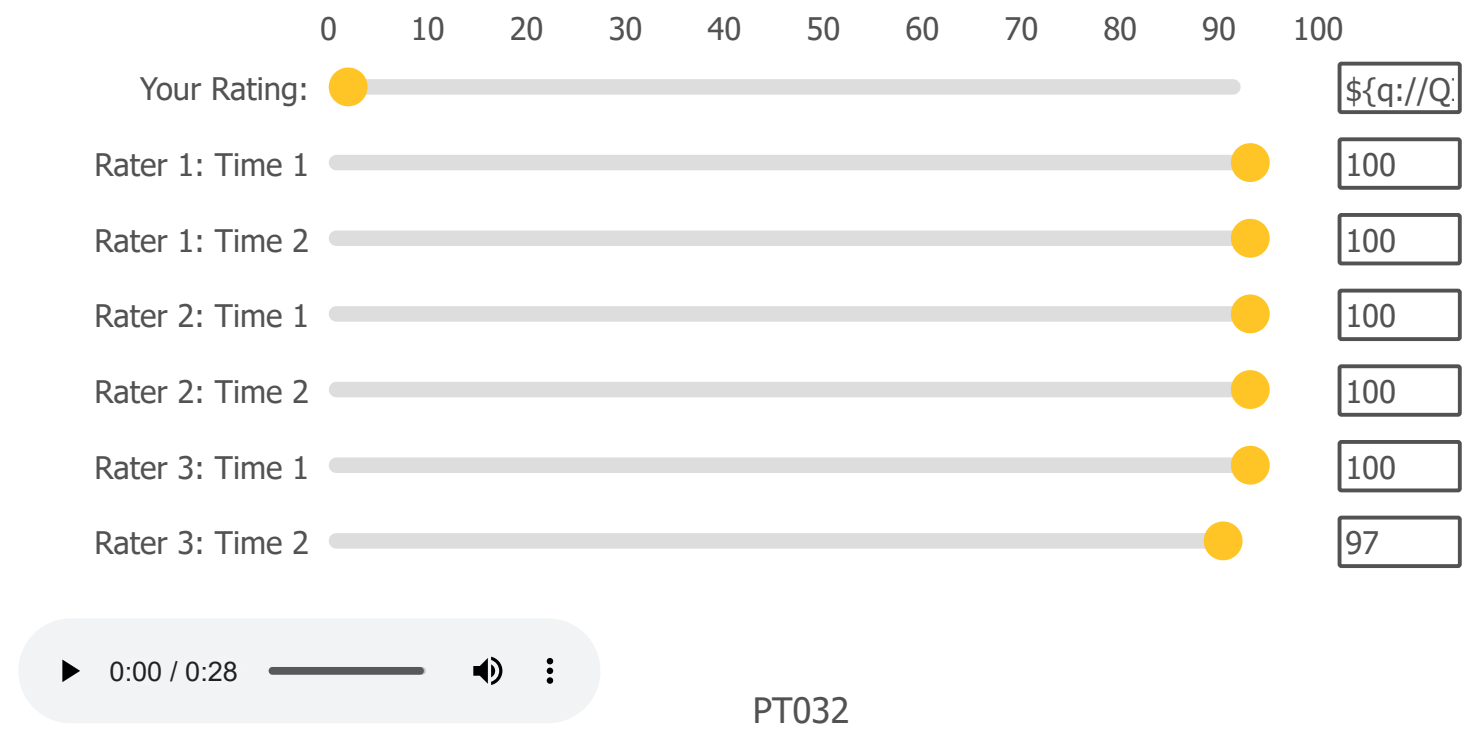
PT065

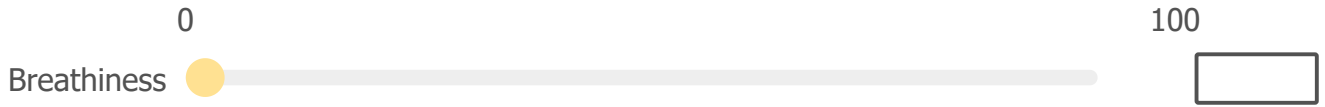
DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints.  
Moving the sliders will remove the expert rating values.





DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints. Moving the sliders will remove the expert rating values.



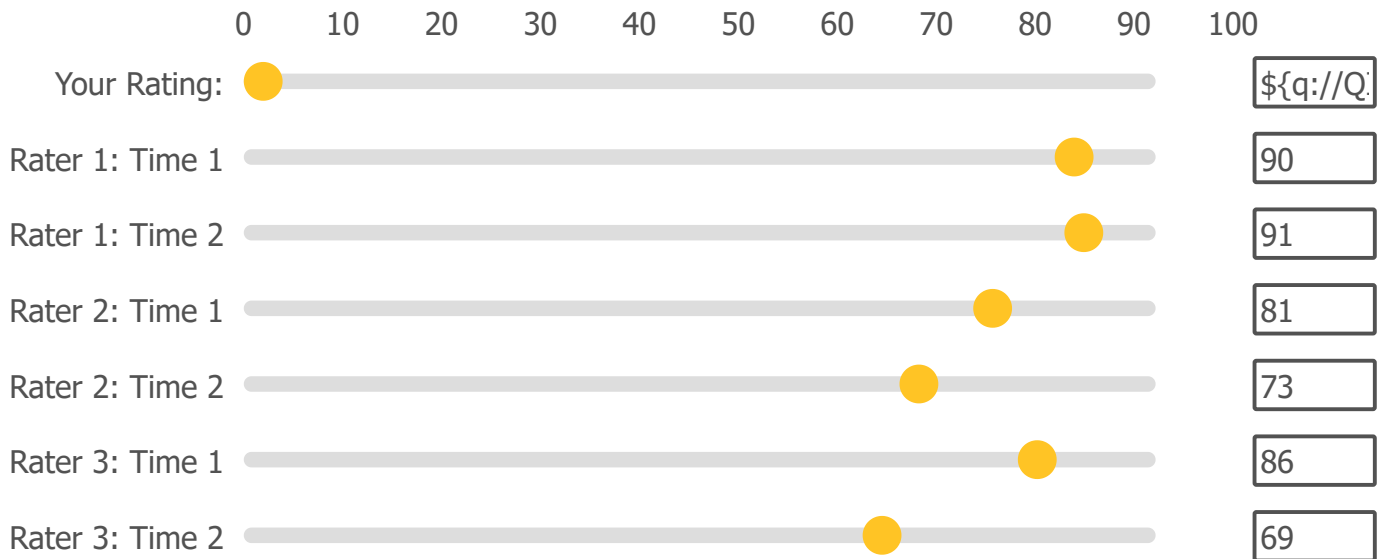


▶ 0:00 / 0:28



PT032

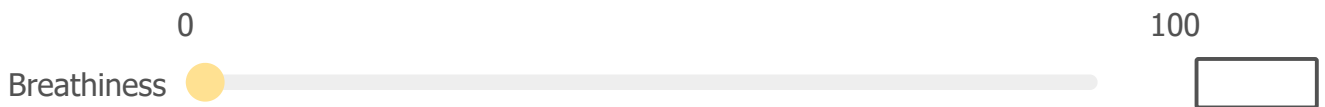
DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints.  
Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:28



PT058

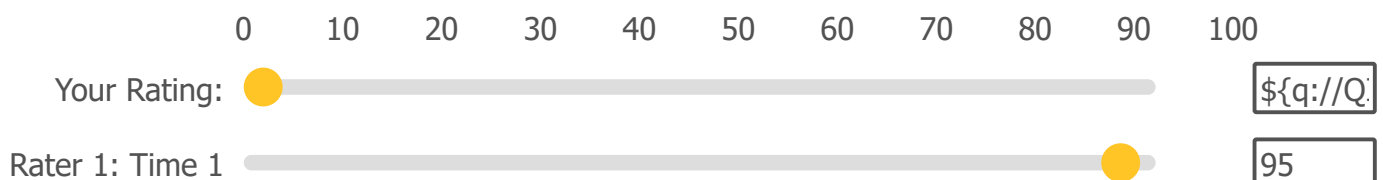


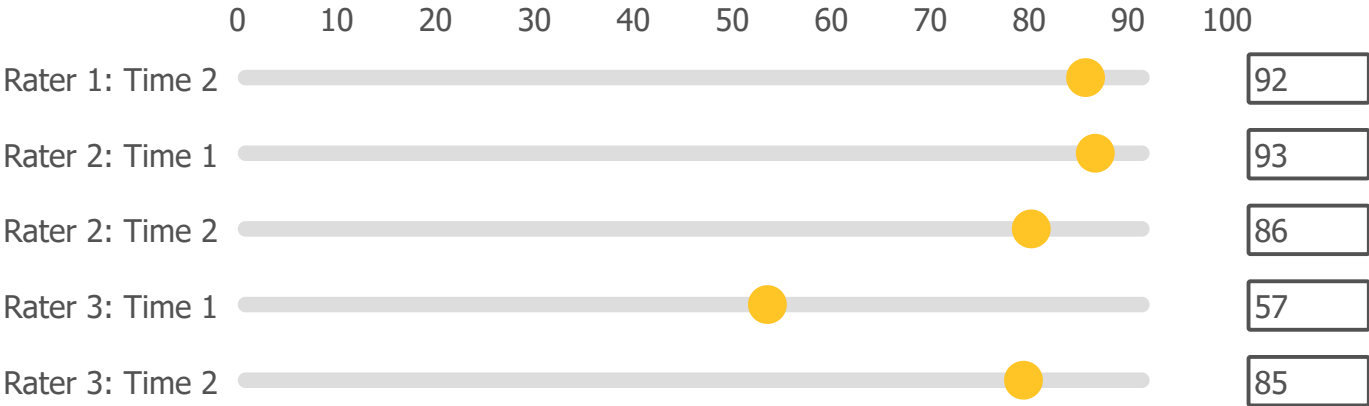
▶ 0:00 / 0:28



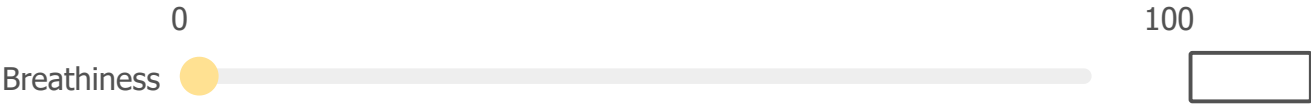
PT058

DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints.  
Moving the sliders will remove the expert rating values.



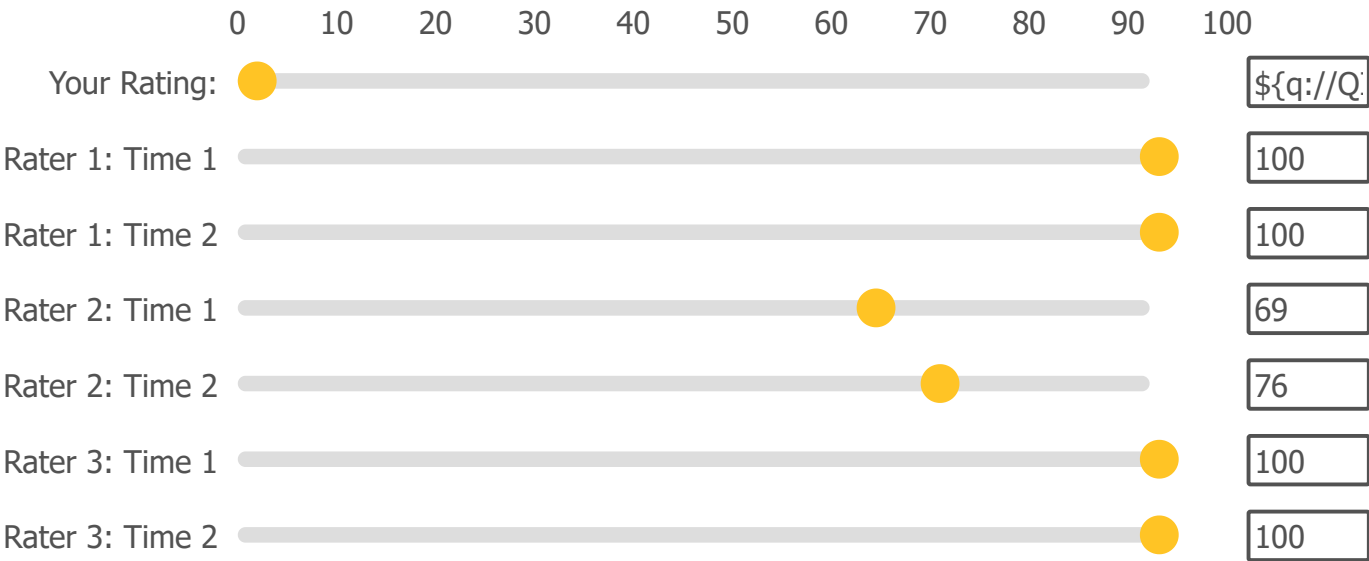


PT118



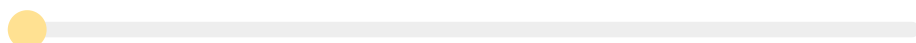
PT118


DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints. Moving the sliders will remove the expert rating values.



NYU1022

0 100


Breathiness 


0:00 / 0:33 


NYU1022

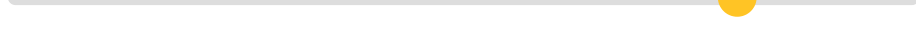
DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints.  
Moving the sliders will remove the expert rating values.


0 10 20 30 40 50 60 70 80 90 100


Your Rating: 


Rater 1: Time 1 

Rater 1: Time 2 

Rater 2: Time 1 


Rater 2: Time 2 


Rater 3: Time 1 

Rater 3: Time 2 

### Practice: Severity

0 100

Severity 

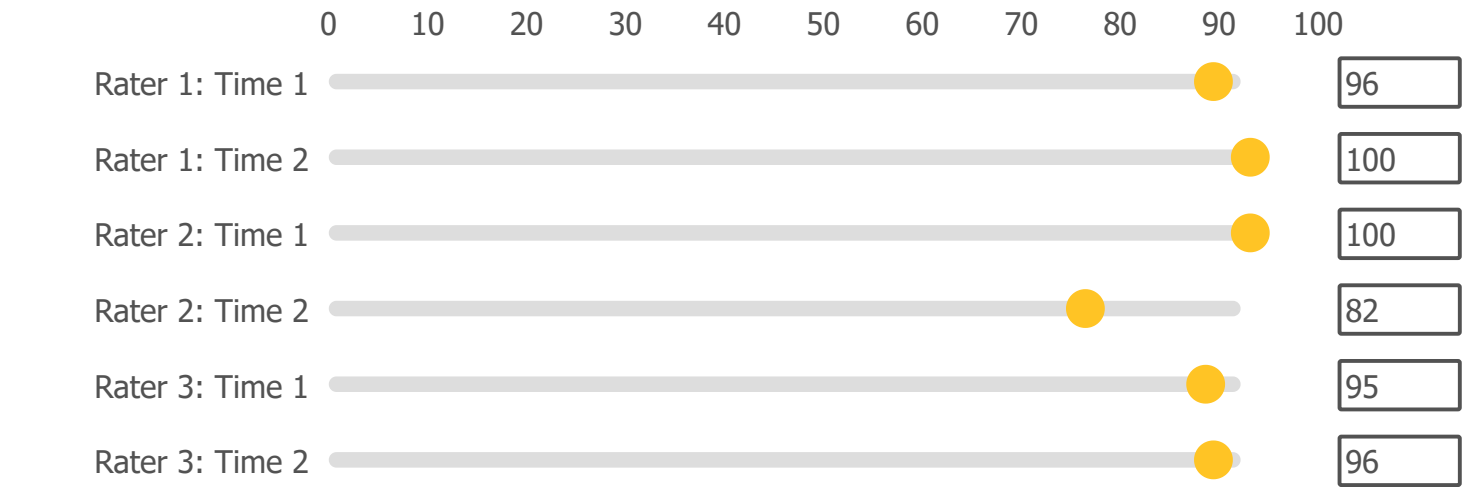
0:00 / 0:22 

PT008

DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints.  
Moving the sliders will remove the expert rating values.

0 10 20 30 40 50 60 70 80 90 100

Your Rating: 



▶ 0:00 / 0:19

🔊 ⋮

PT019

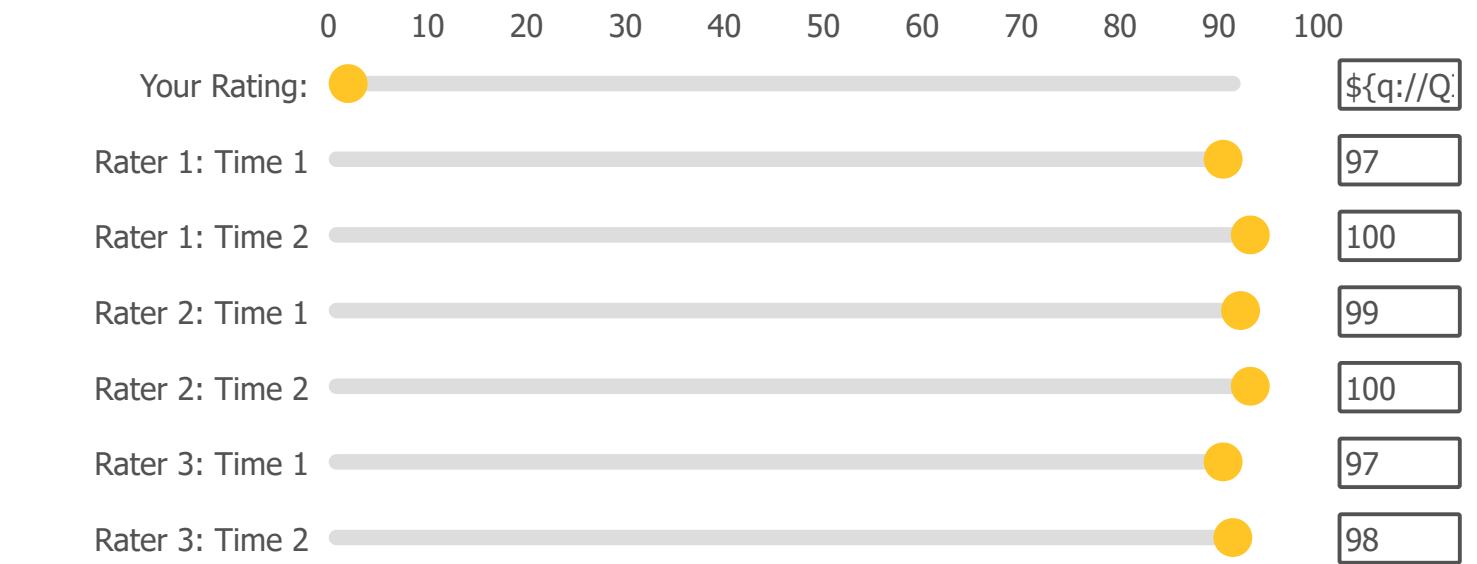


▶ 0:00 / 0:19

🔊 ⋮

PT019

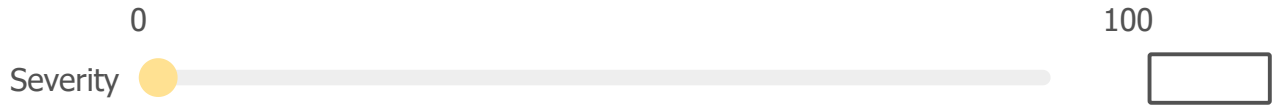
DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints. Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:20

🔊 ⋮

PT100

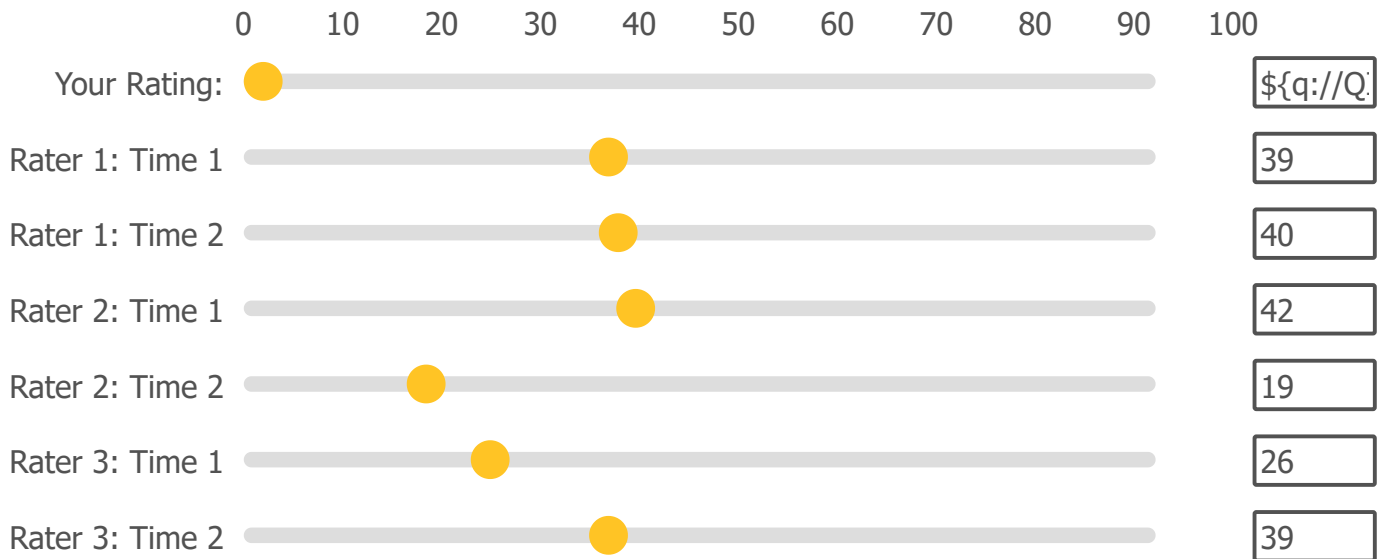


▶ 0:00 / 0:20



PT100

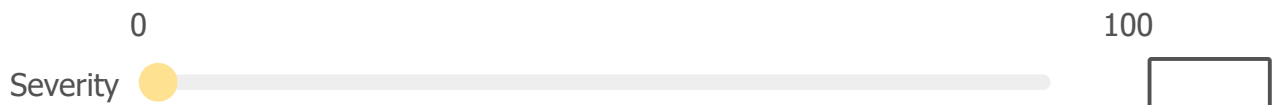
DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints.  
Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:04



PT123

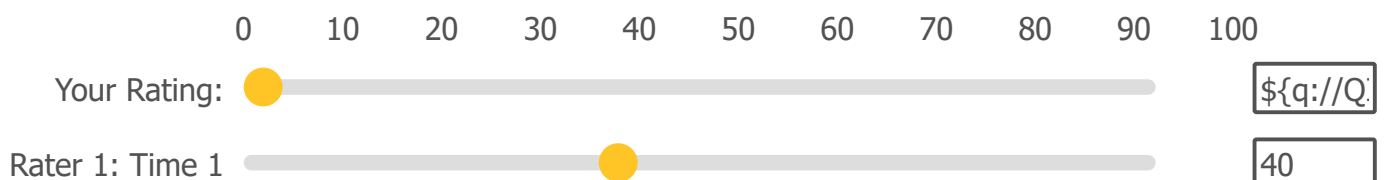


▶ 0:00 / 0:04

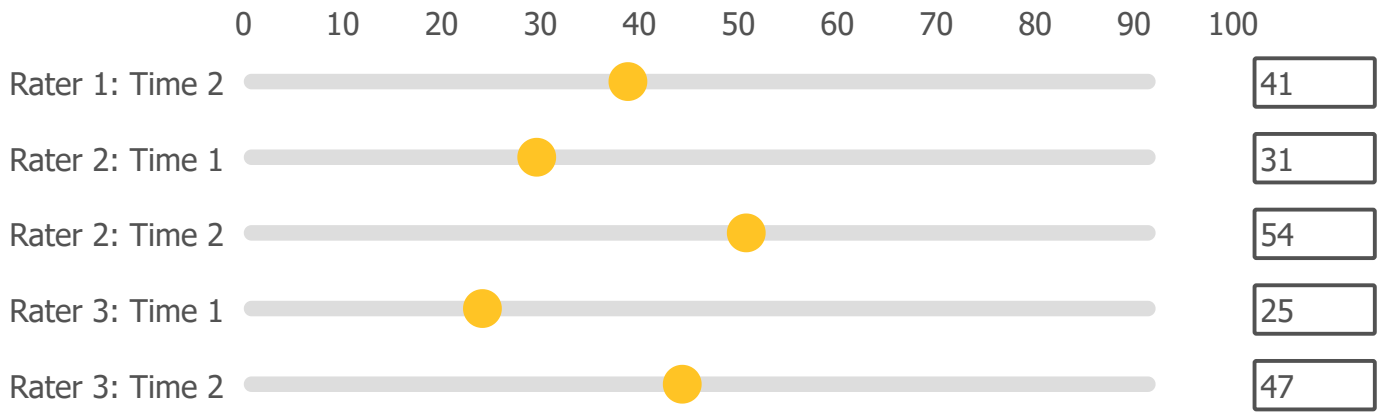


PT123

DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints.  
Moving the sliders will remove the expert rating values.

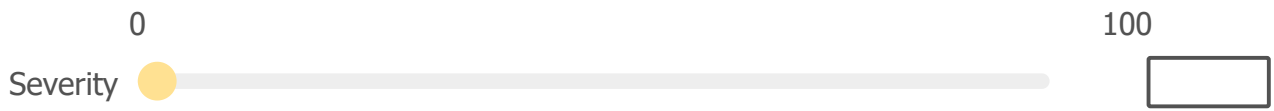






▶ 0:00 / 0:17 🔊 ⋮

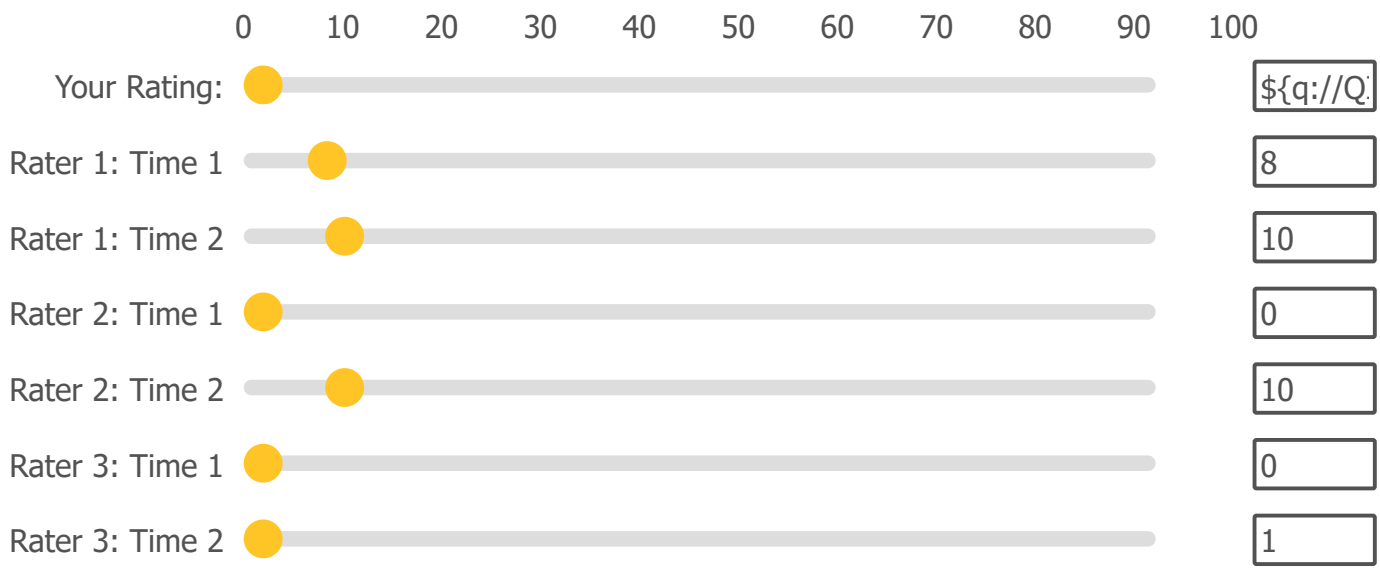
PT109



▶ 0:00 / 0:17 🔊 ⋮

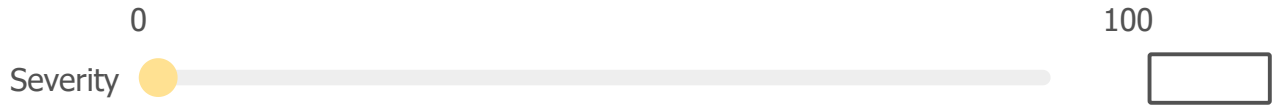
PT109

DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints. Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:10 🔊 ⋮

PT128

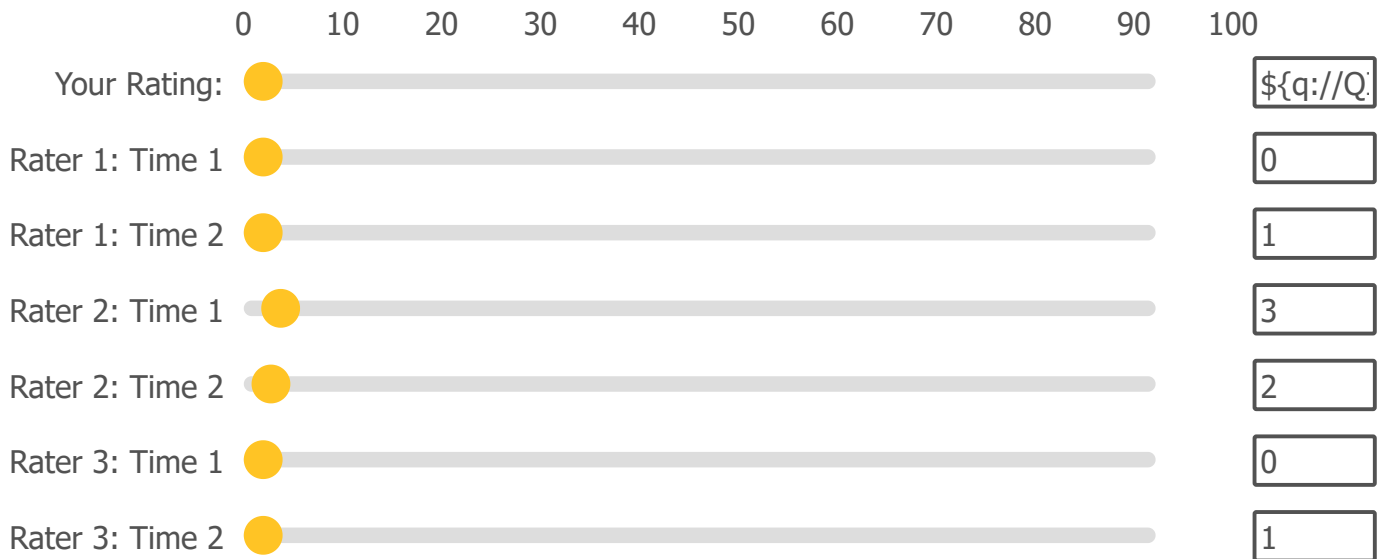


▶ 0:00 / 0:10



PT128

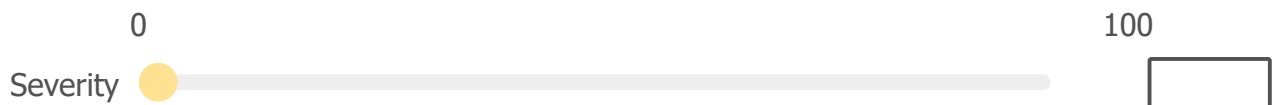
DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints.  
Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:24



PT015

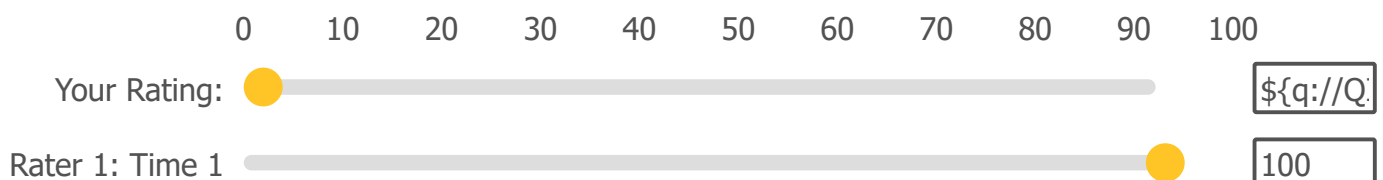


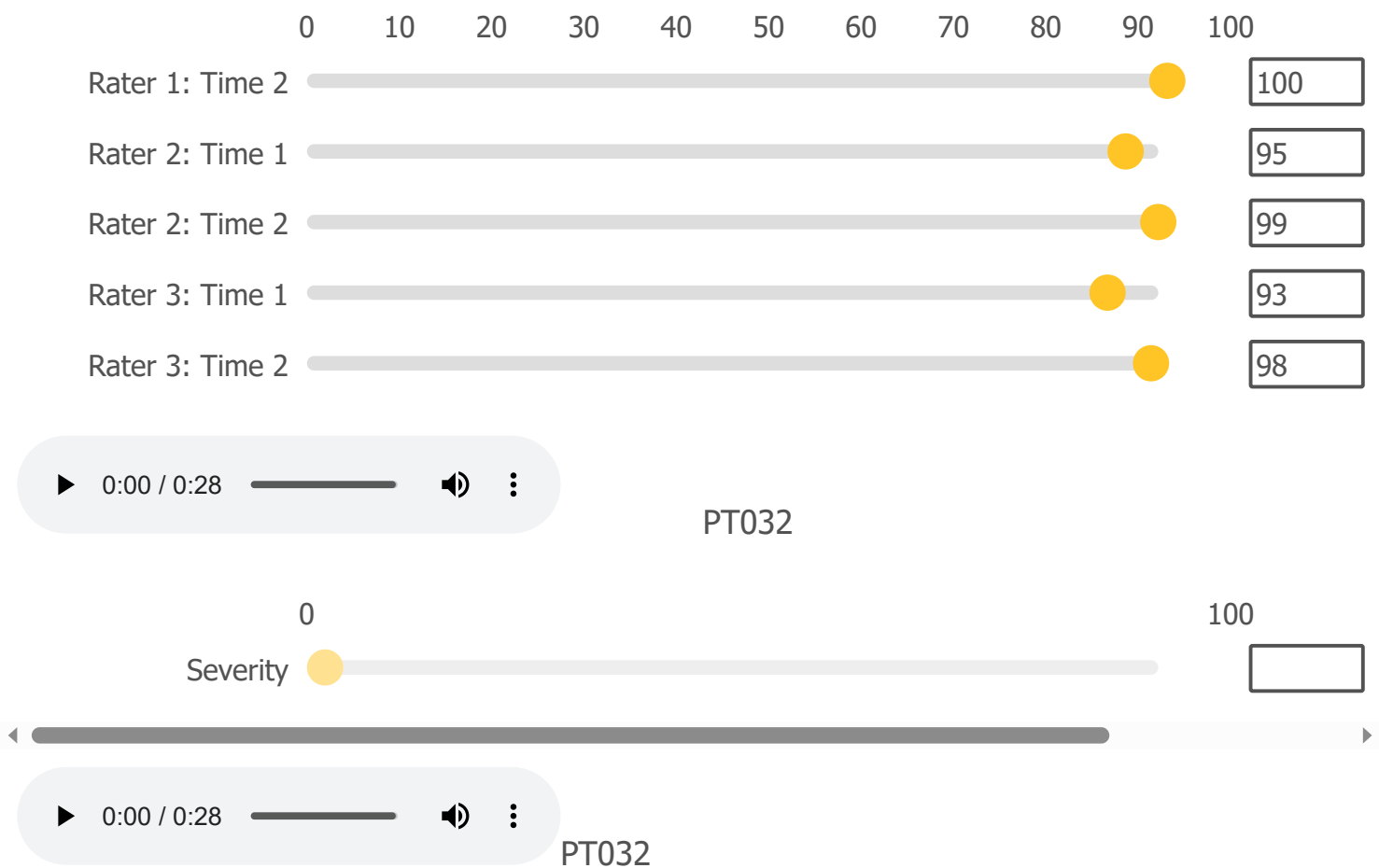
▶ 0:00 / 0:24



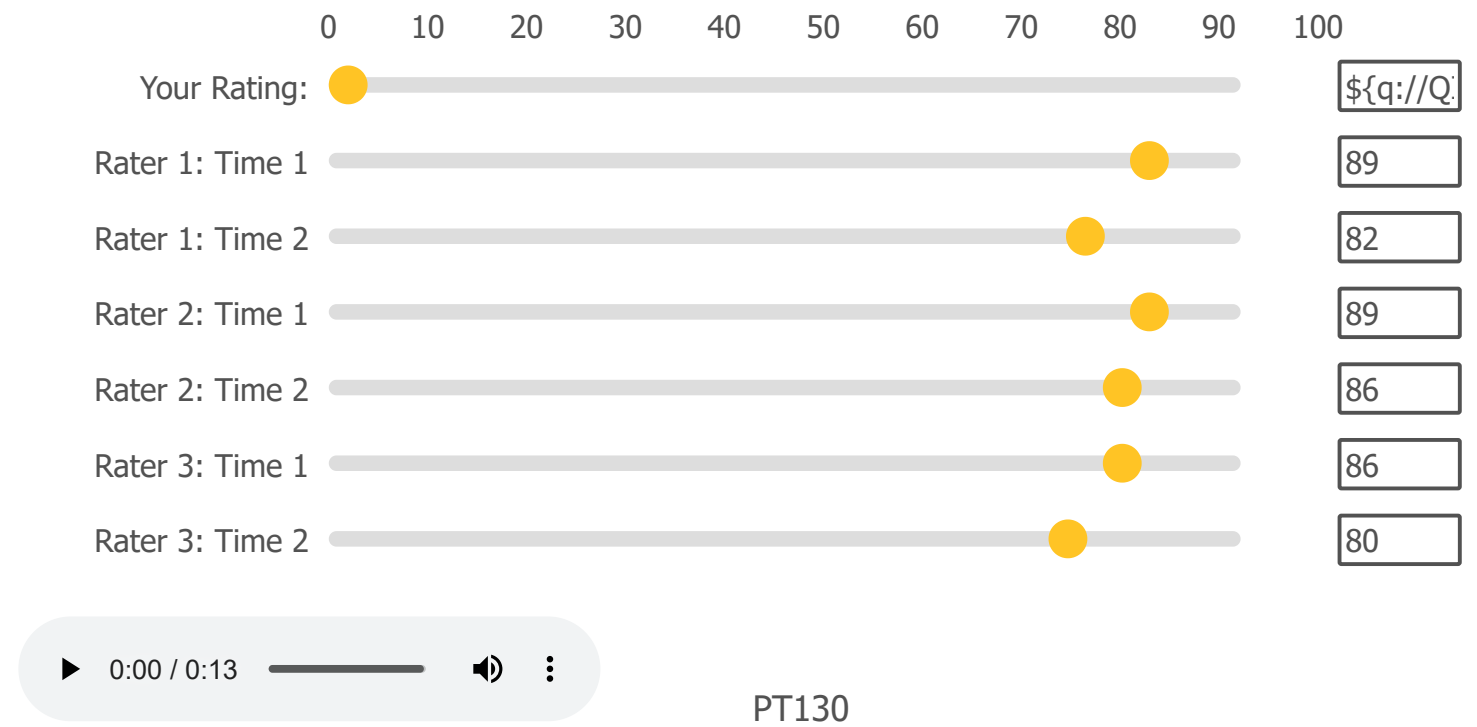
PT015

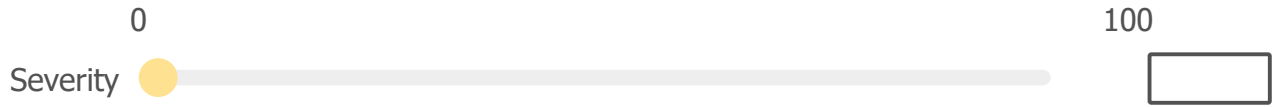
DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints.  
Moving the sliders will remove the expert rating values.





DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints. Moving the sliders will remove the expert rating values.



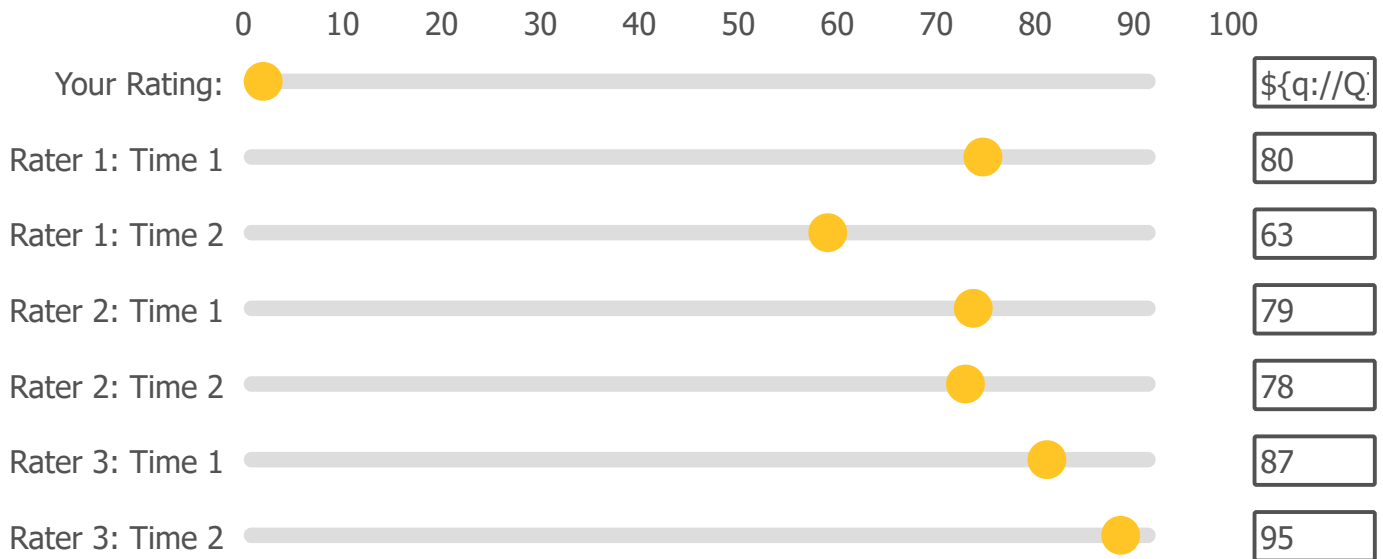


▶ 0:00 / 0:13



PT130

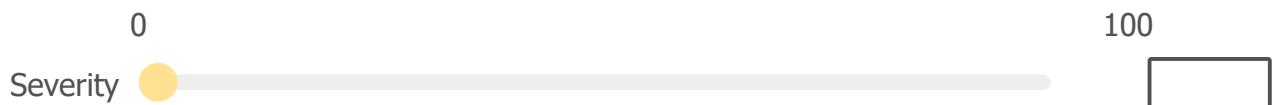
DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints.  
Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:19



PT102

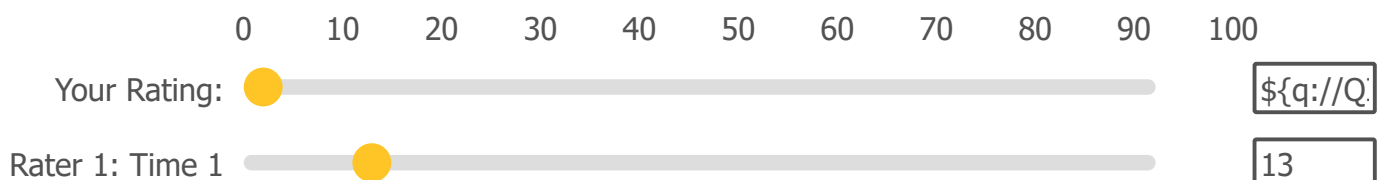


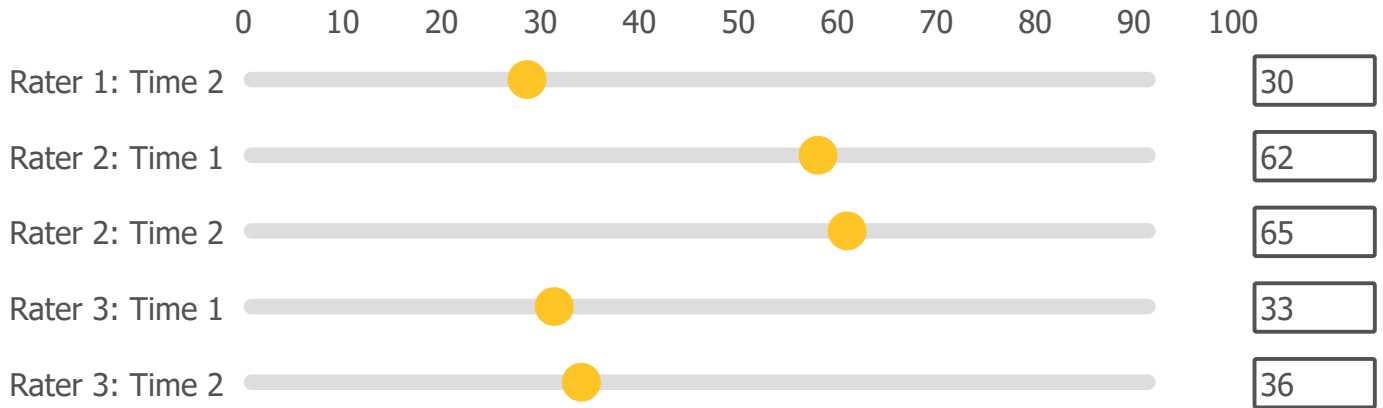
▶ 0:00 / 0:19



PT102

DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints.  
Moving the sliders will remove the expert rating values.

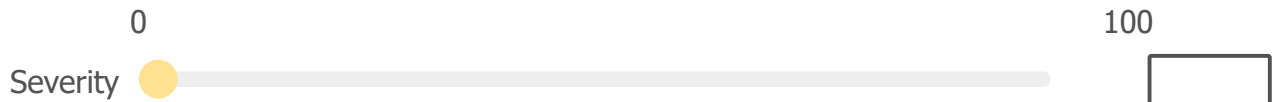




▶ 0:00 / 0:24



LA1005

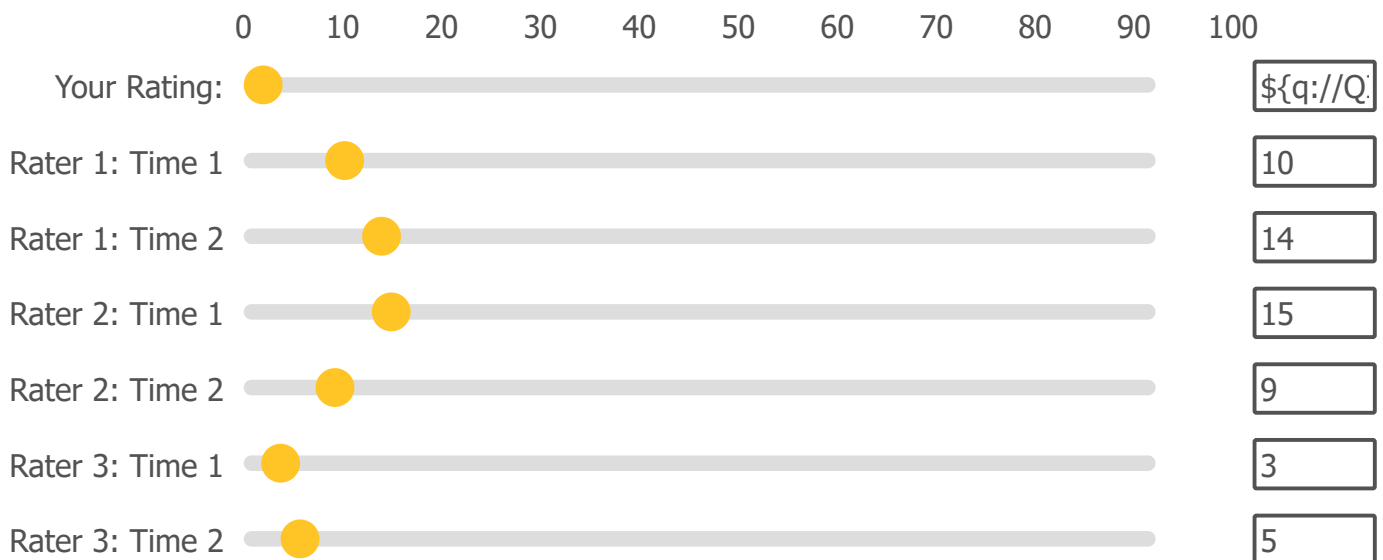


▶ 0:00 / 0:24



LA1005

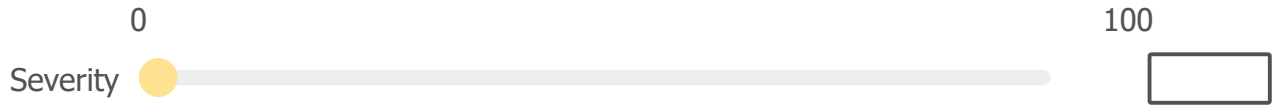
DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints. Moving the sliders will remove the expert rating values.

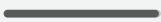



▶ 0:00 / 0:19



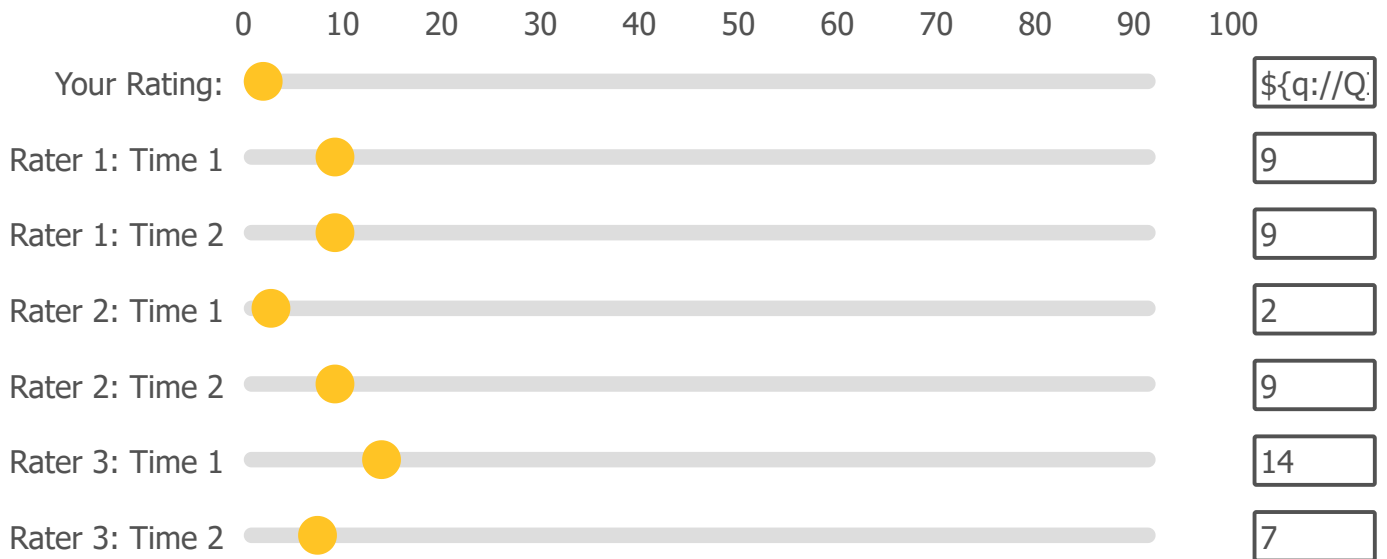
PT042

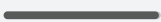



▶ 0:00 / 0:19   ⋮

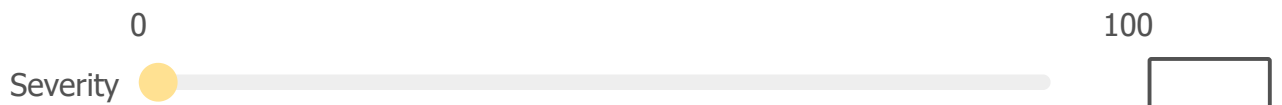
PT042



DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints.  
Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:28   ⋮

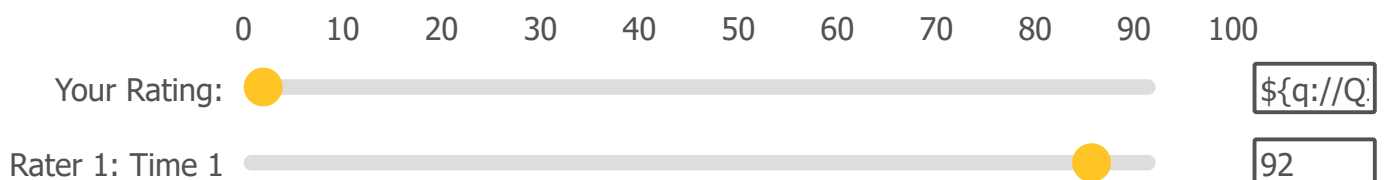
PT058

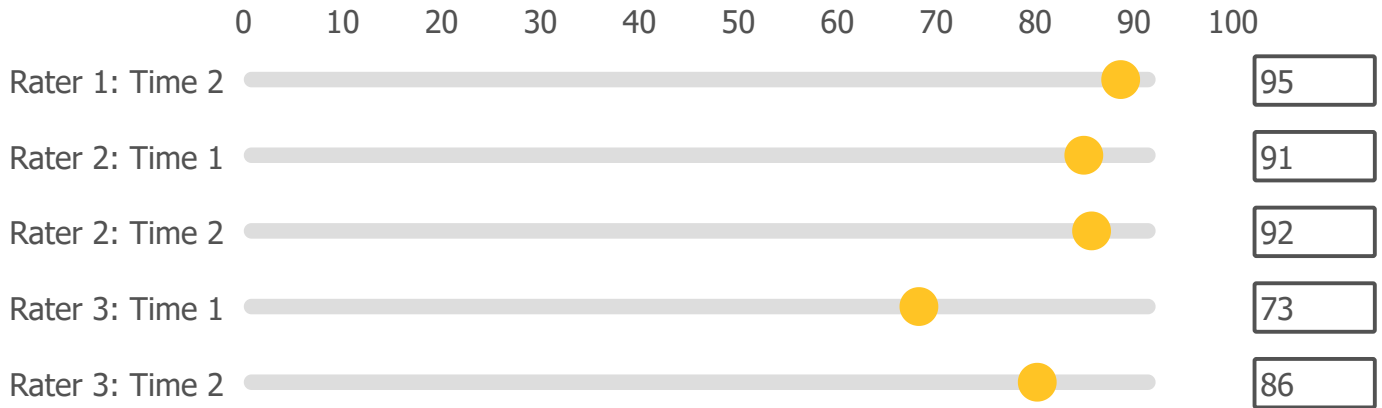


▶ 0:00 / 0:28   ⋮

PT058

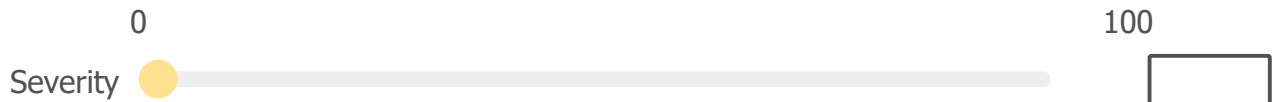
DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints.  
Moving the sliders will remove the expert rating values.





▶ 0:00 / 0:11 🔊 ⋮

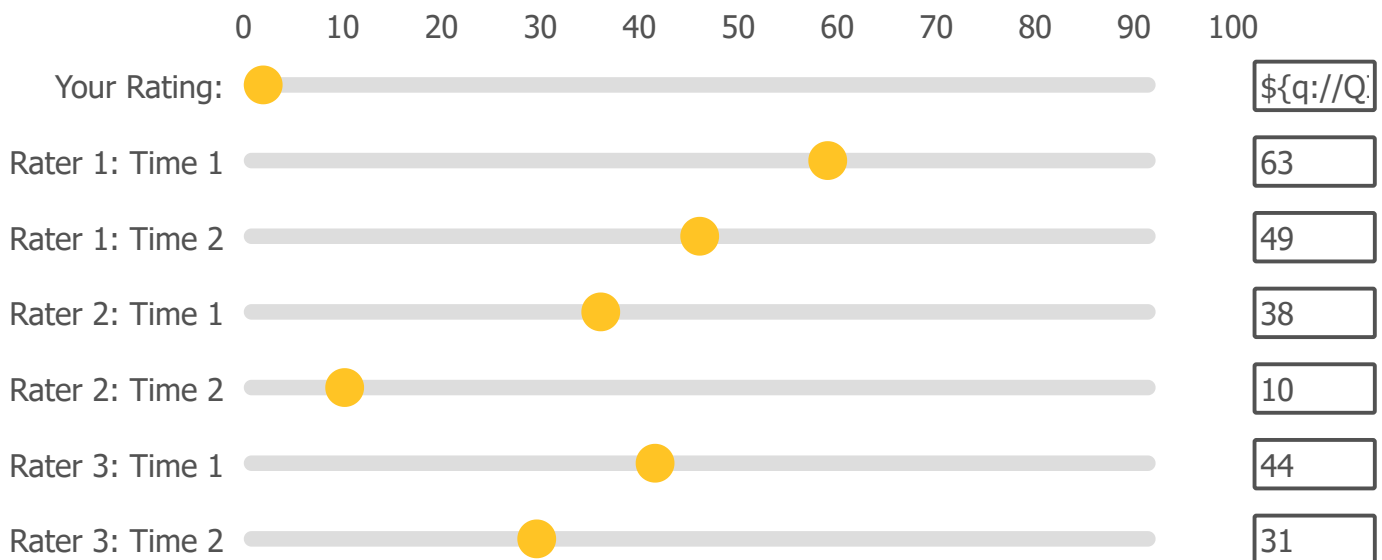
PT119



▶ 0:00 / 0:11 🔊 ⋮

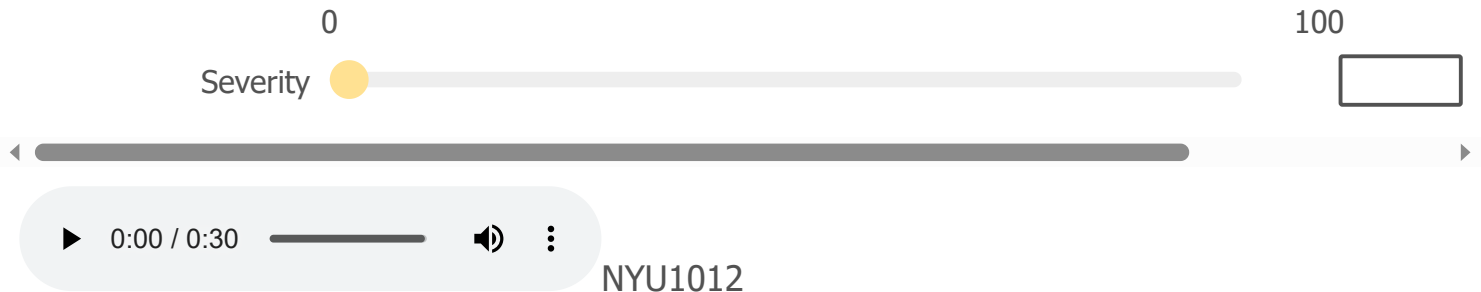
PT119

DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints. Moving the sliders will remove the expert rating values.

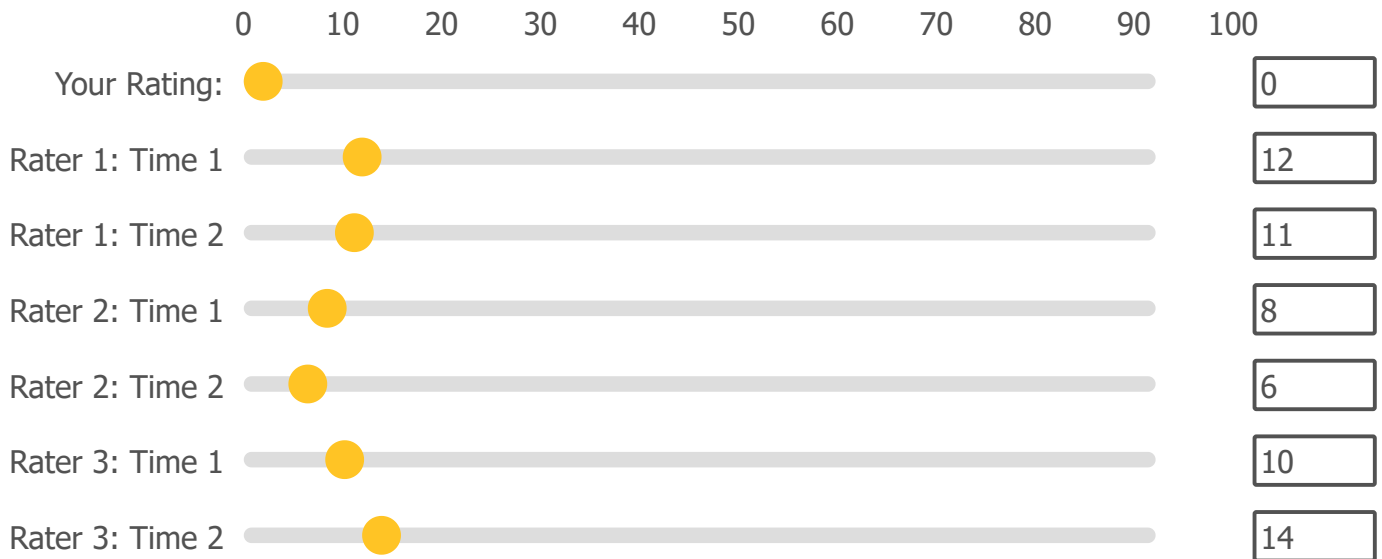


▶ 0:00 / 0:30 🔊 ⋮

NYU1012

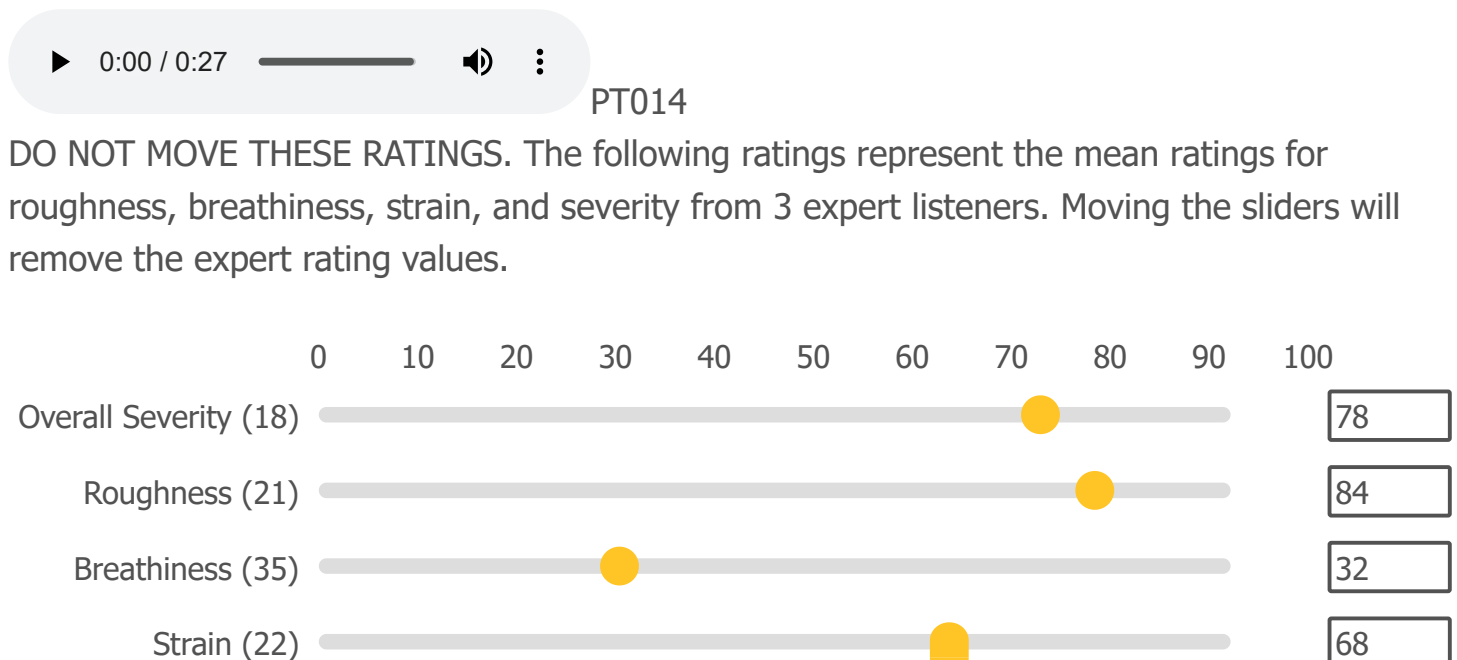


DO NOT MOVE THESE RATINGS. The following are ratings from experts at two timepoints. Moving the sliders will remove the expert rating values.



## Observations

The following samples demonstrate "**Severe**" levels of overall severity deviation.



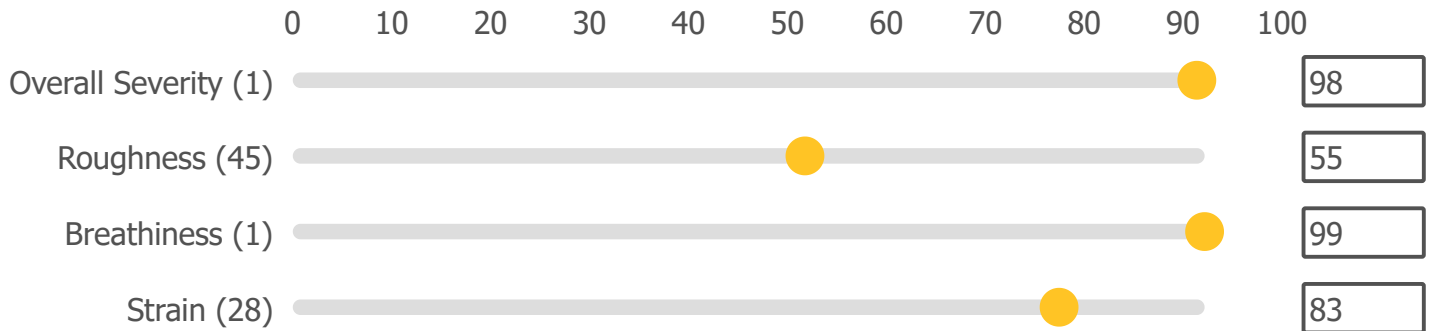


▶ 0:00 / 0:22



PT008

DO NOT MOVE THESE RATINGS. The following ratings represent the mean ratings for roughness, breathiness, strain, and severity from 3 expert listeners. Moving the sliders will remove the expert rating values.

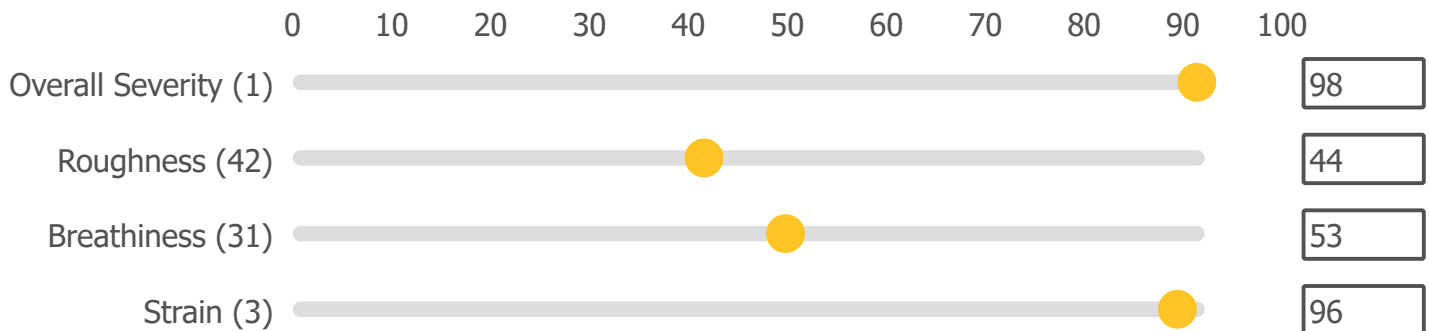


▶ 0:00 / 0:19



PT019

DO NOT MOVE THESE RATINGS. The following ratings represent the mean ratings for roughness, breathiness, strain, and severity from 3 expert listeners. Moving the sliders will remove the expert rating values.



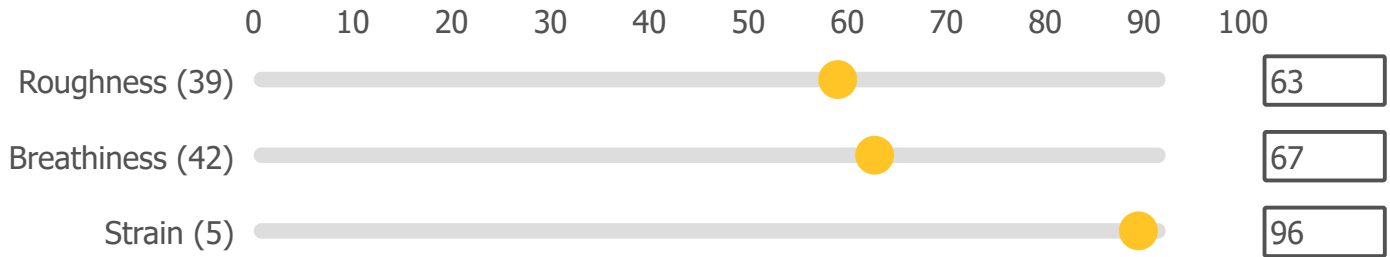
▶ 0:00 / 0:24



PT015

DO NOT MOVE THESE RATINGS. The following ratings represent the mean ratings for roughness, breathiness, strain, and severity from 3 expert listeners. Moving the sliders will remove the expert rating values.



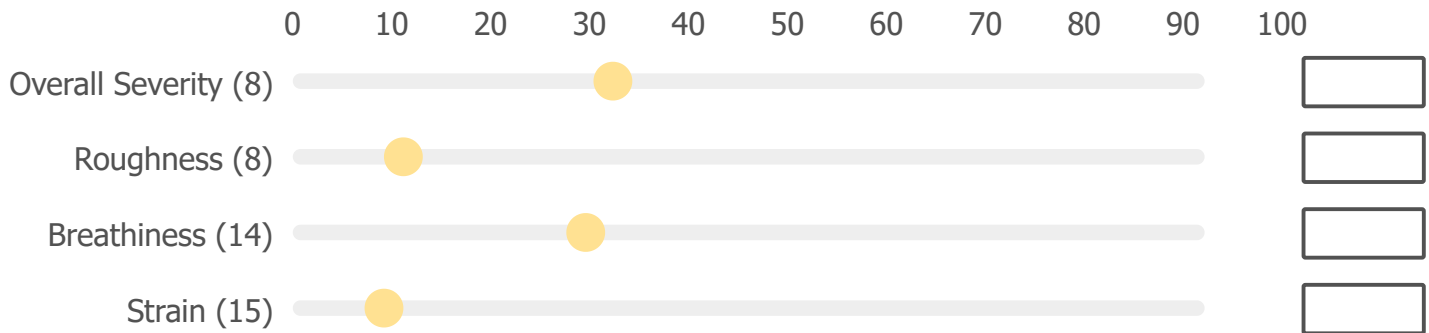


The following samples demonstrate **"Moderate"** levels of overall severity deviation.

▶ 0:00 / 0:20 🔊 ⋮

PT100

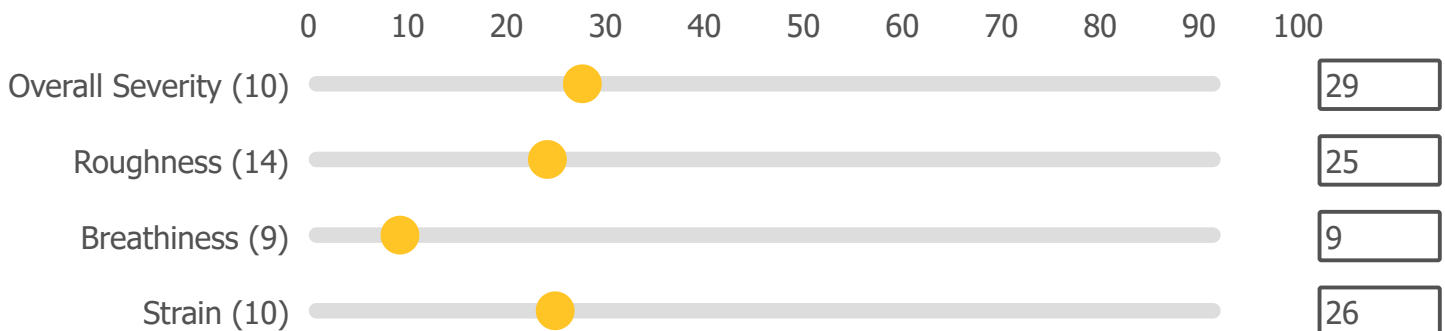
DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:19 🔊 ⋮

PT102

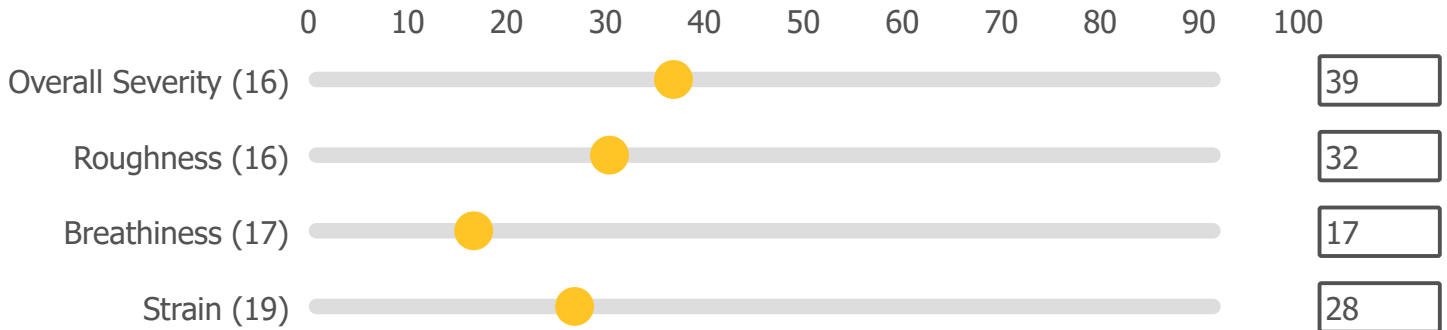
DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:11

PT119

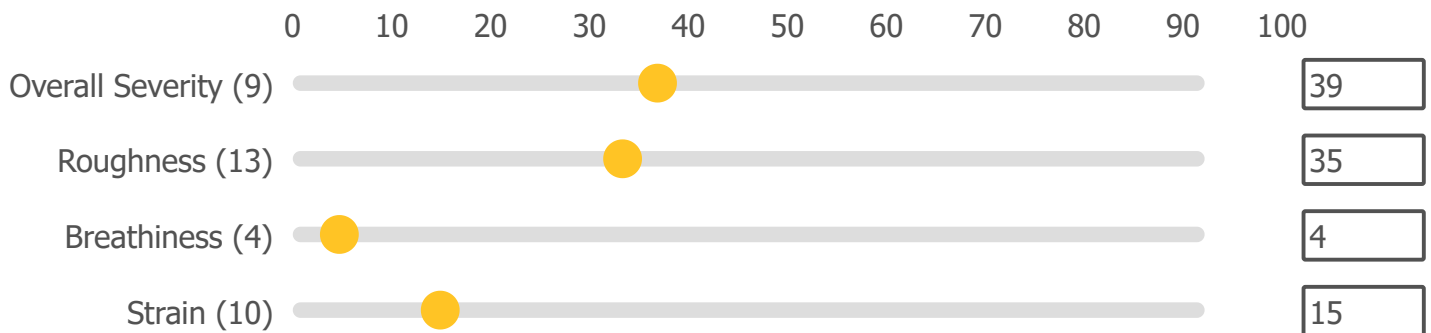
DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:04

PT123

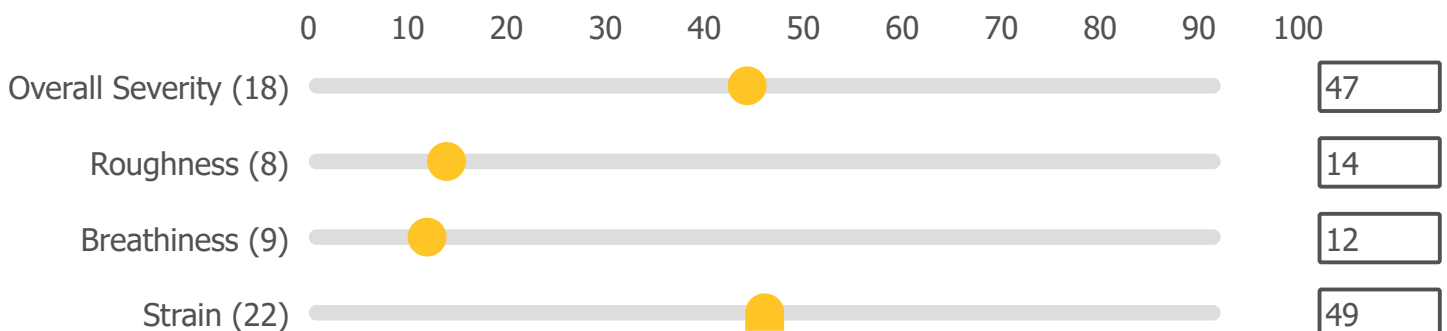
DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:13

PT130

DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.



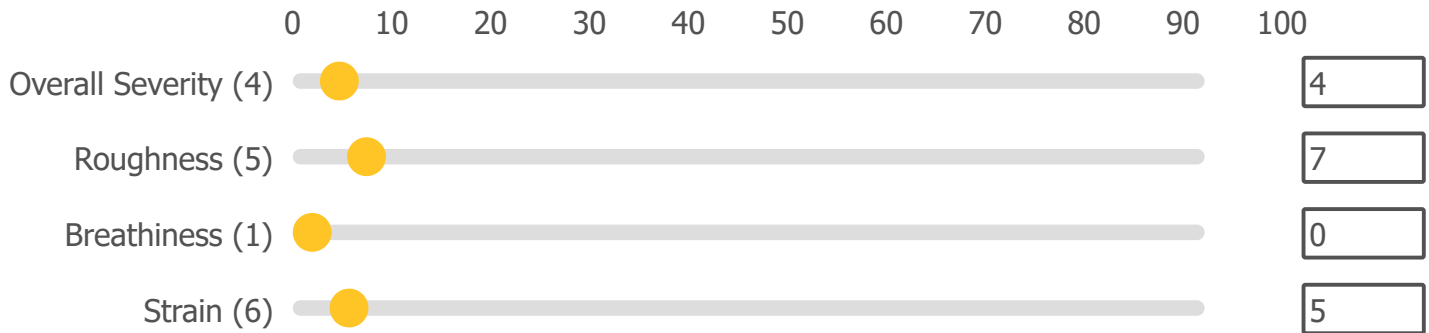
The following samples demonstrate "**Mild**" levels of overall severity deviation.

▶ 0:00 / 0:17



PT109

DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.

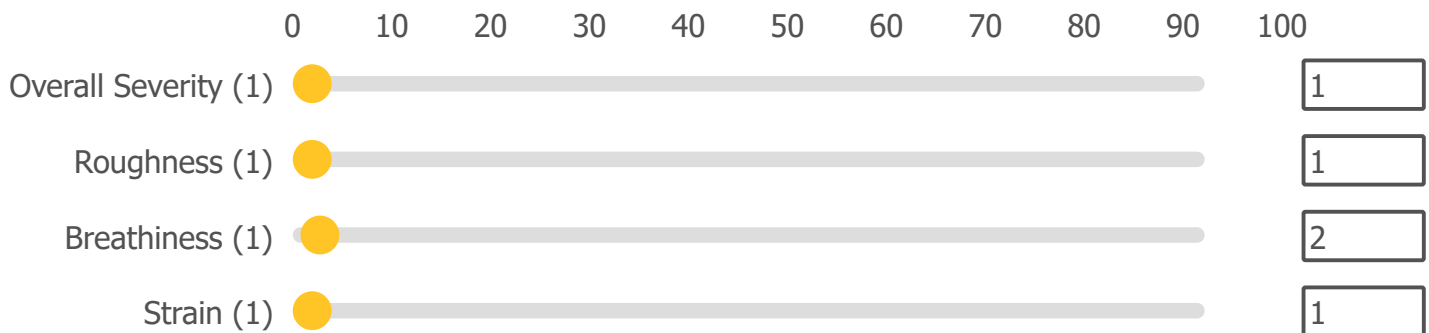


▶ 0:00 / 0:10



PT128

DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.

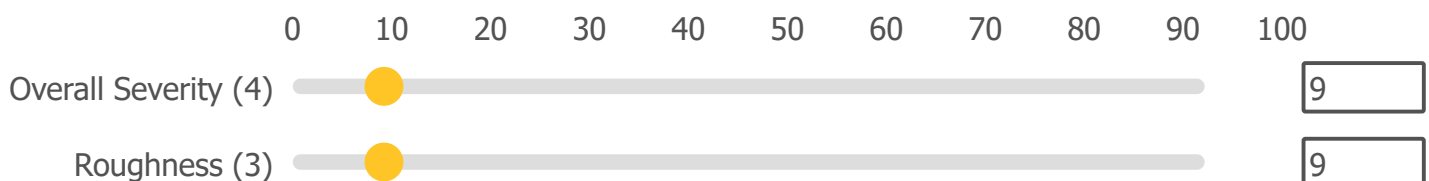


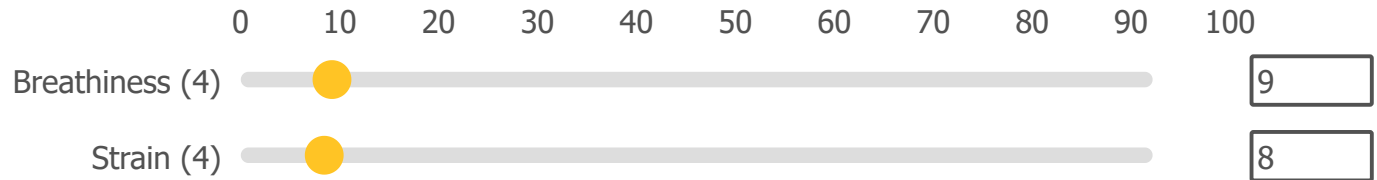
▶ 0:00 / 0:24



LA1005

DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.



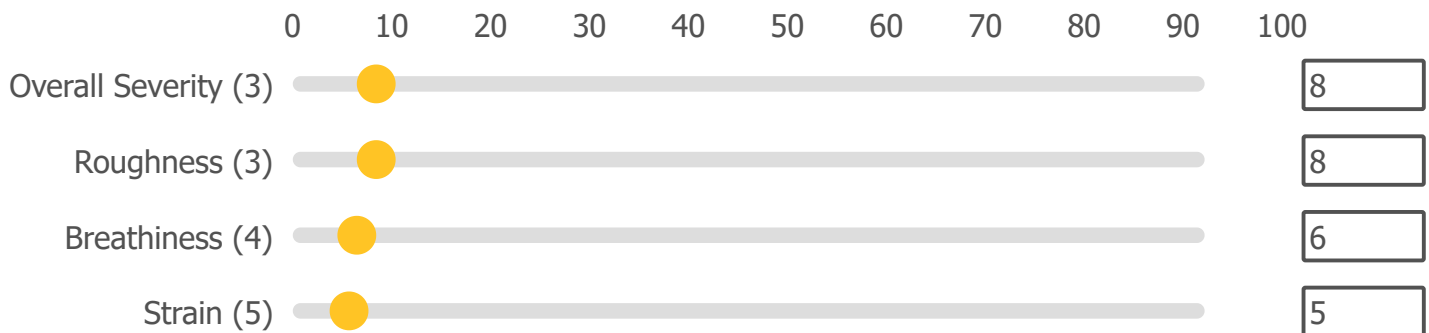


▶ 0:00 / 0:19



PT042

DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.

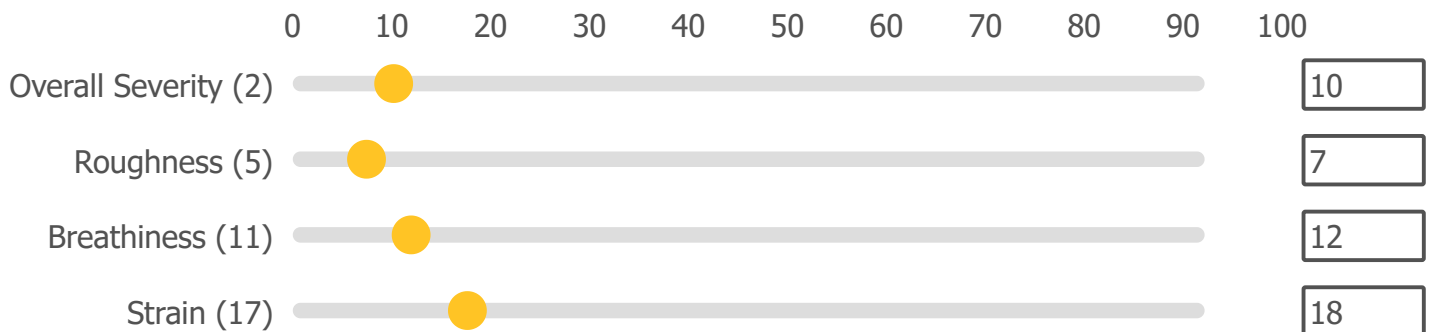


▶ 0:00 / 0:30



NYU1012

DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.



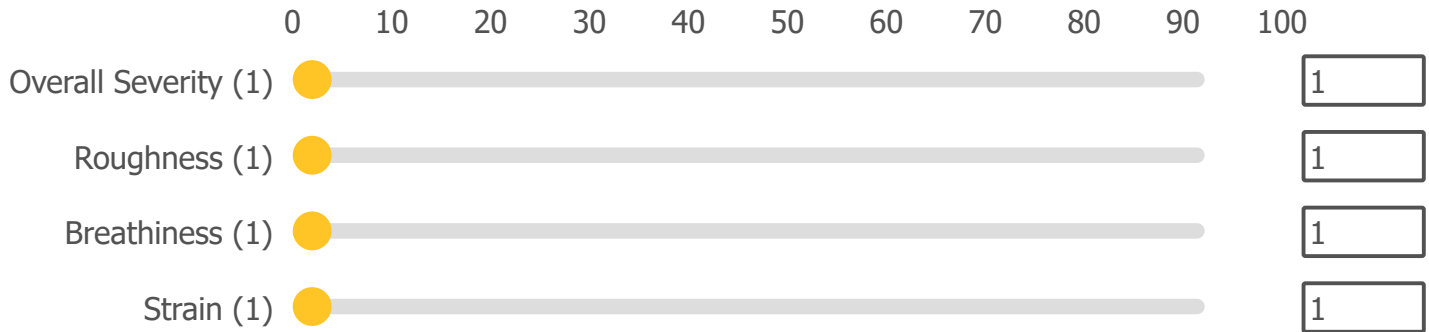
The following samples demonstrate "**Normal**" levels of overall severity deviation.

▶ 0:00 / 0:26



LA9003

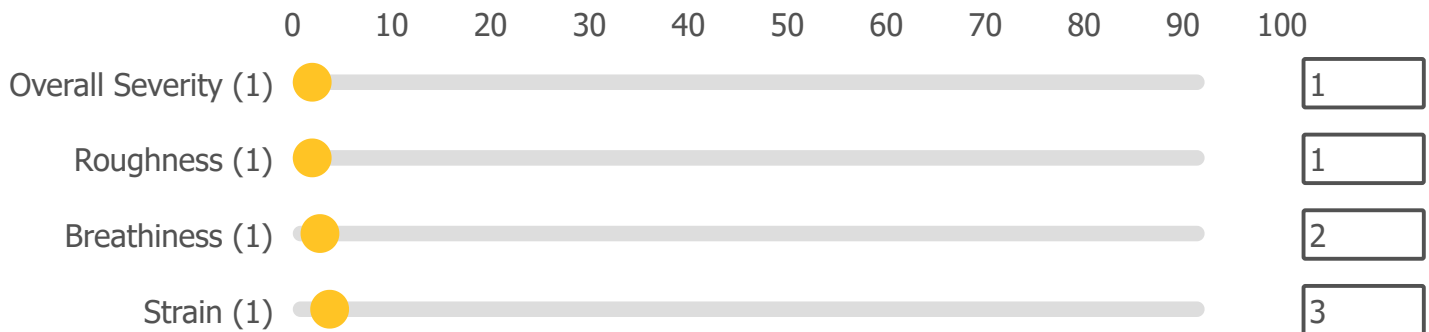
DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:33

LA9018

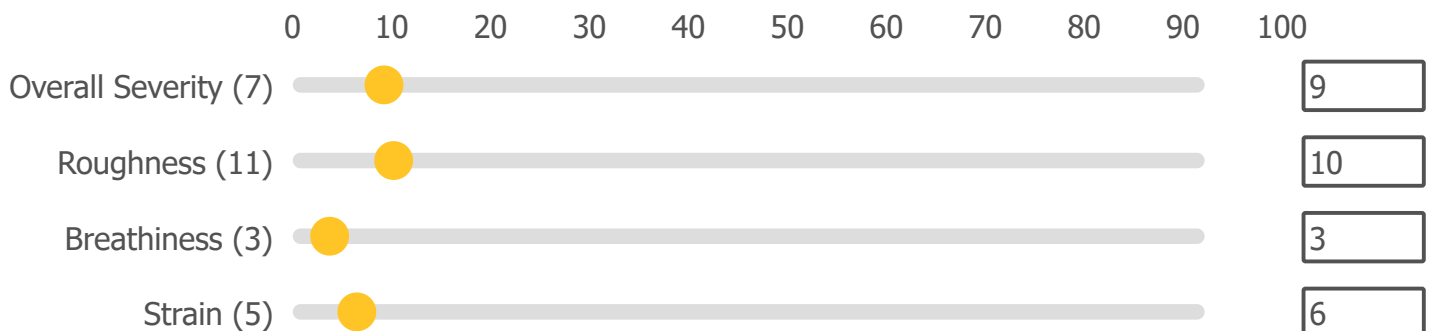
DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:18

LA9021

DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.

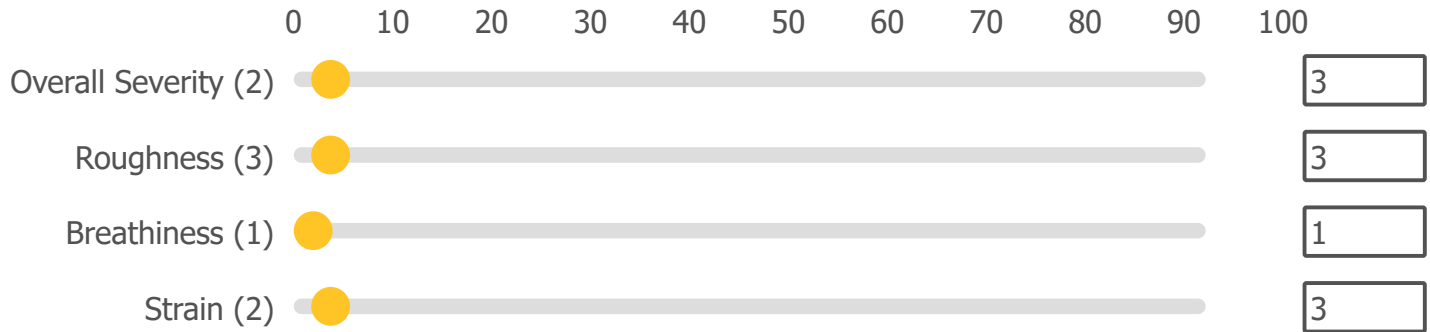


▶ 0:00 / 0:22

LA9022

DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3

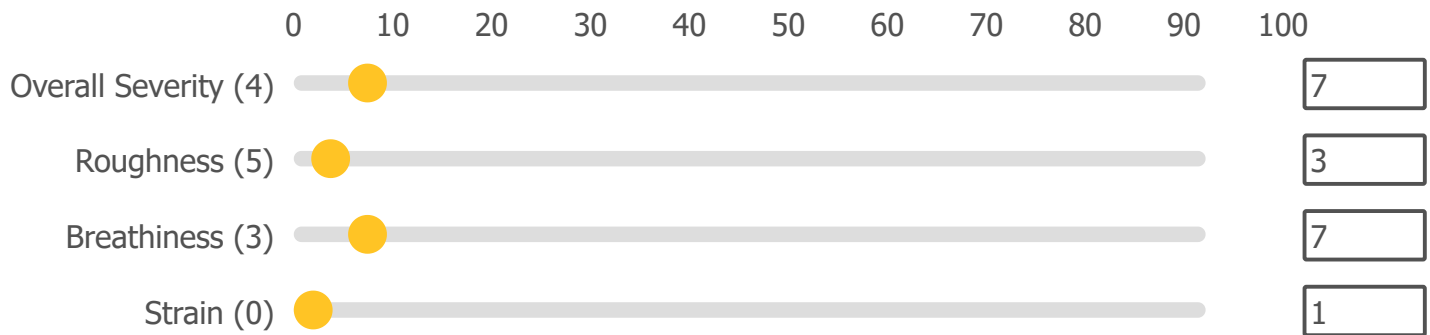
expert listeners. Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:33

SJ5003

DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.

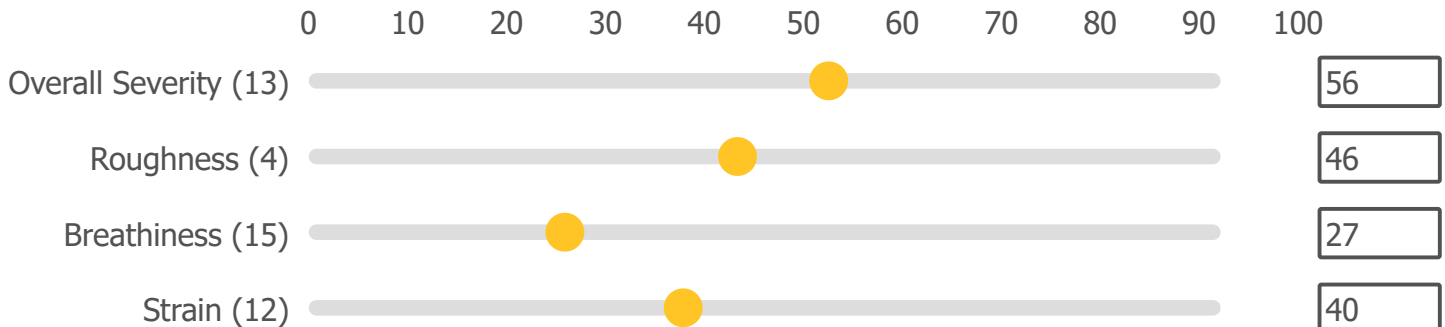


The following samples demonstrate "**Roughness**".

▶ 0:00 / 0:19

LA7011

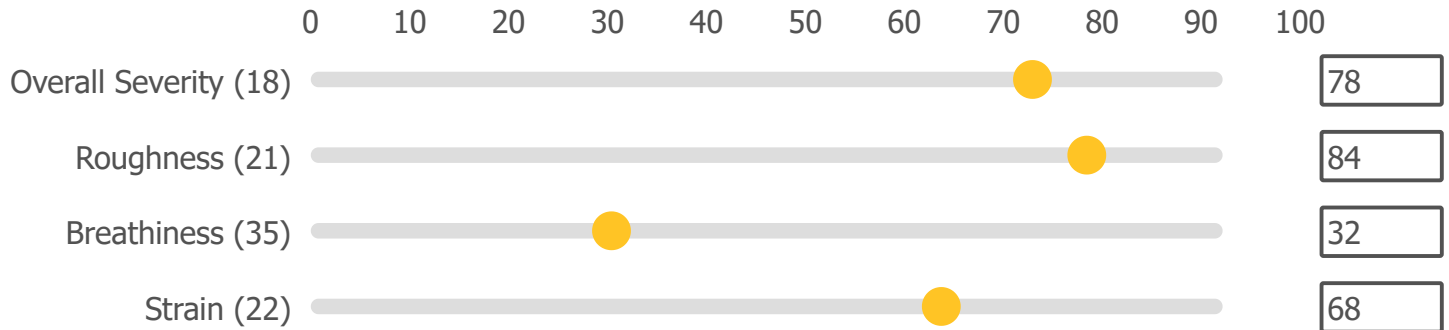
DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:27

PT014

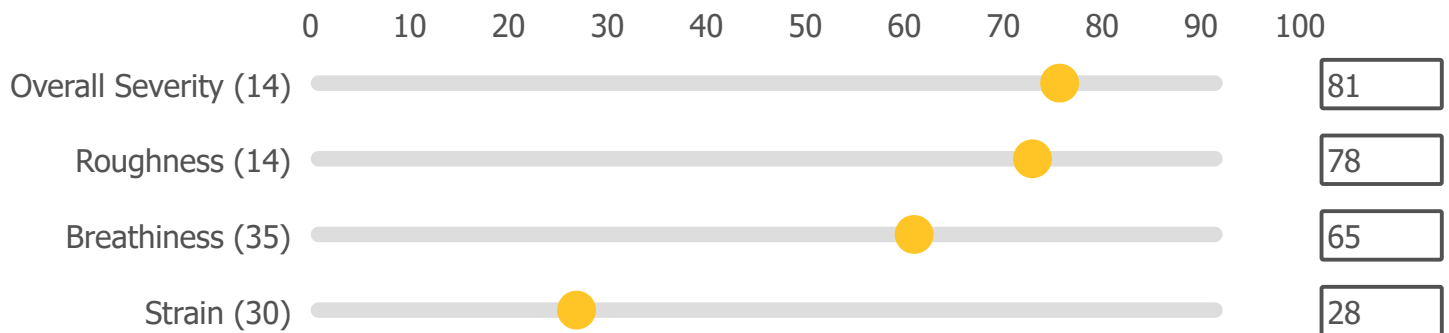
DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:15

PT136

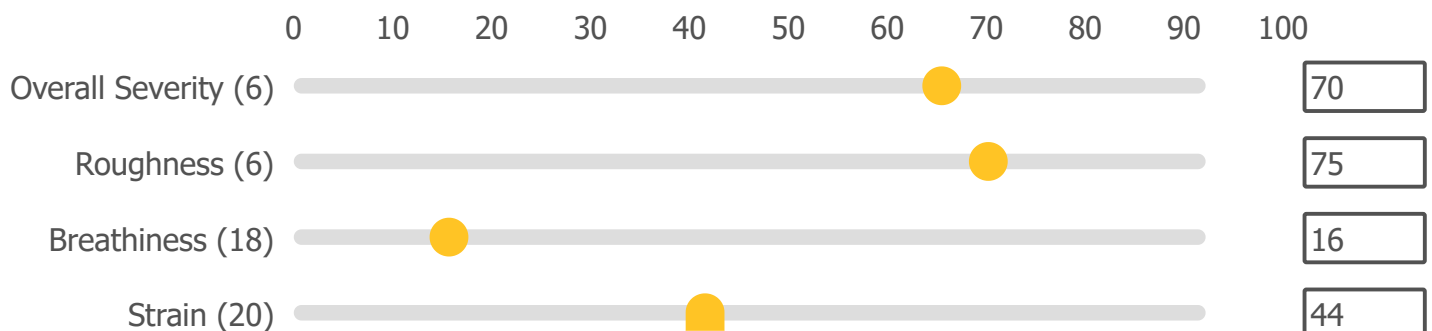
DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:30

LA1009

DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.



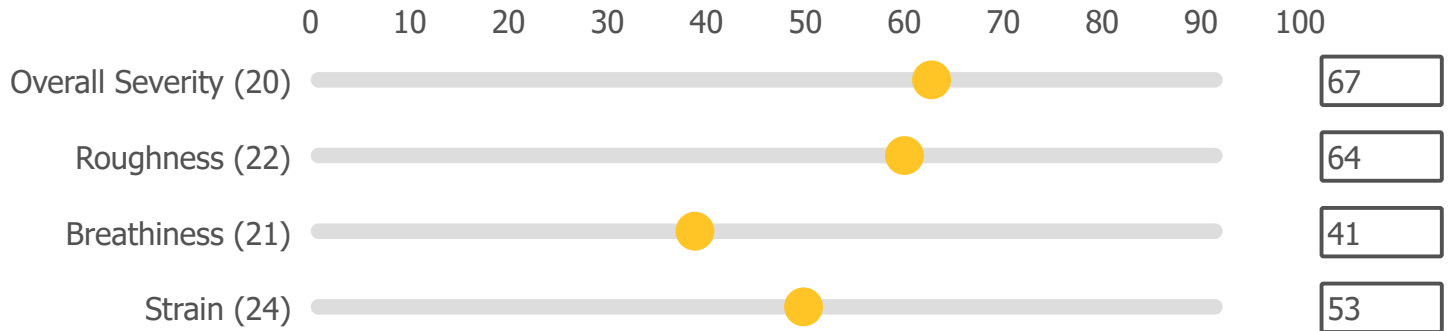


▶ 0:00 / 0:22



NYU1005

DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.

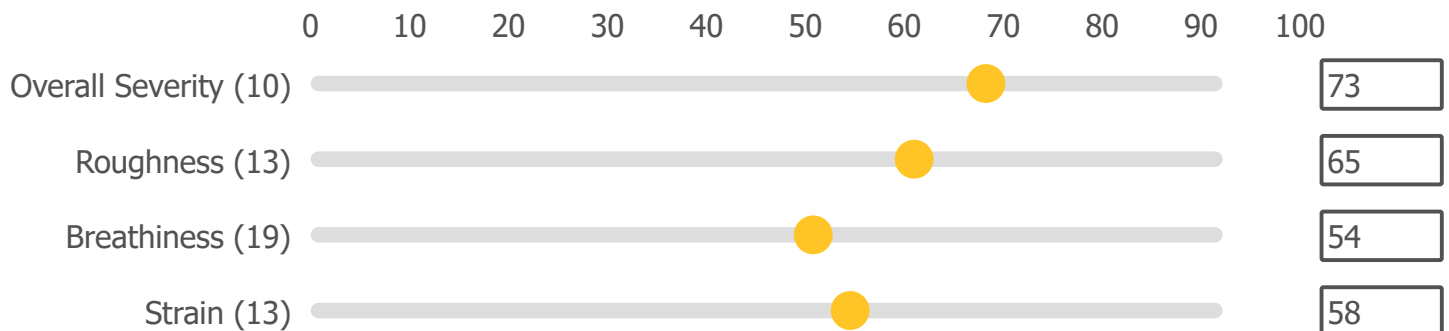


▶ 0:00 / 0:33



BL02

DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.



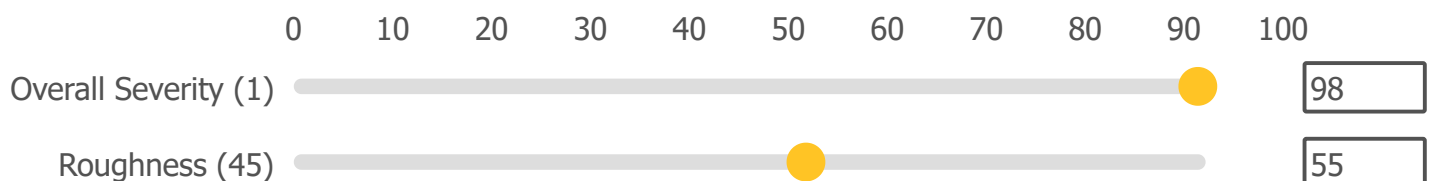
The following samples demonstrate "**Breathiness**".

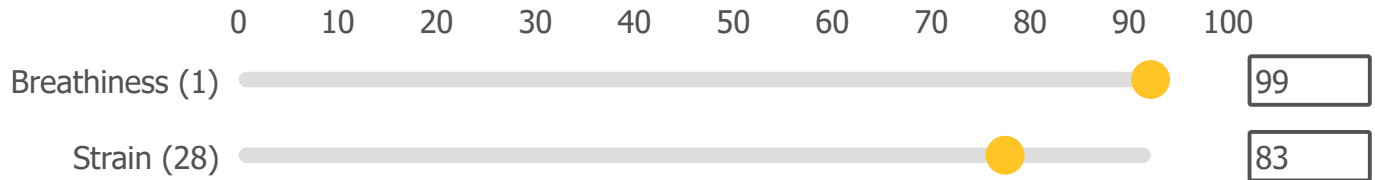
▶ 0:00 / 0:22



PT008

DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.



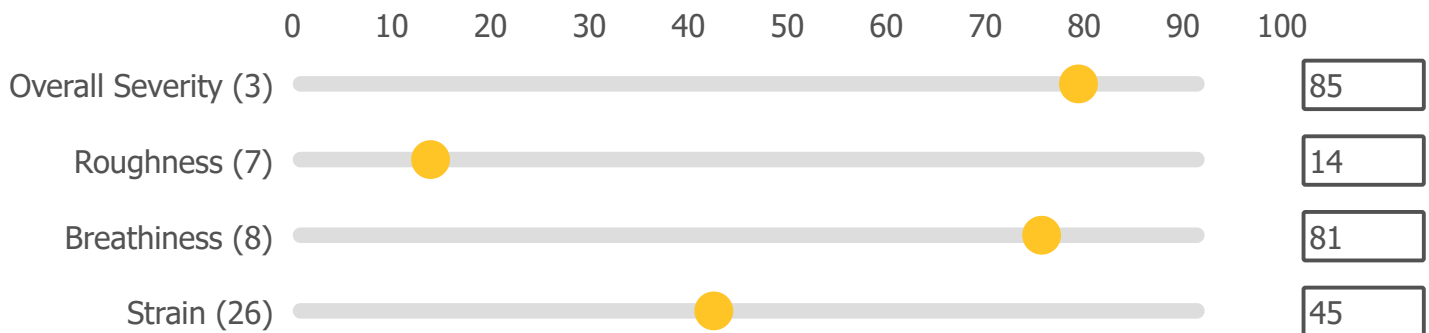


▶ 0:00 / 0:28



PT032

DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.

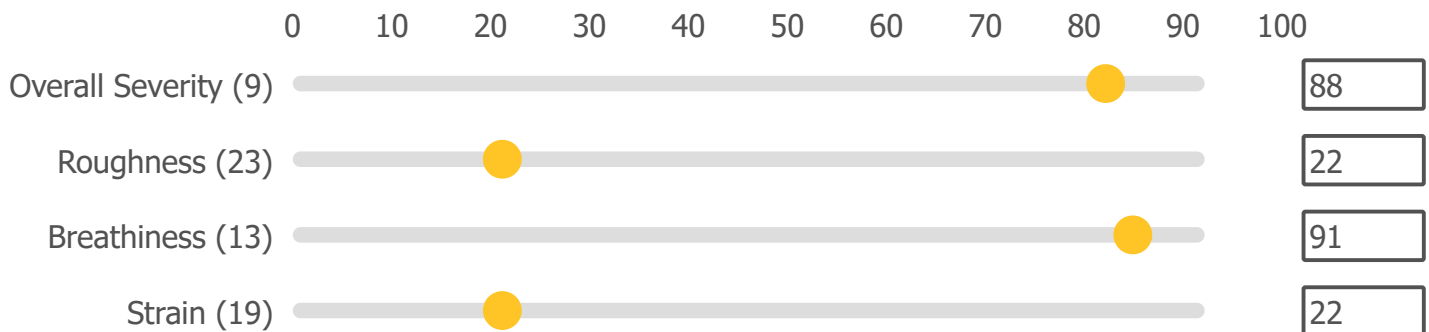


▶ 0:00 / 0:12



PT118

DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.

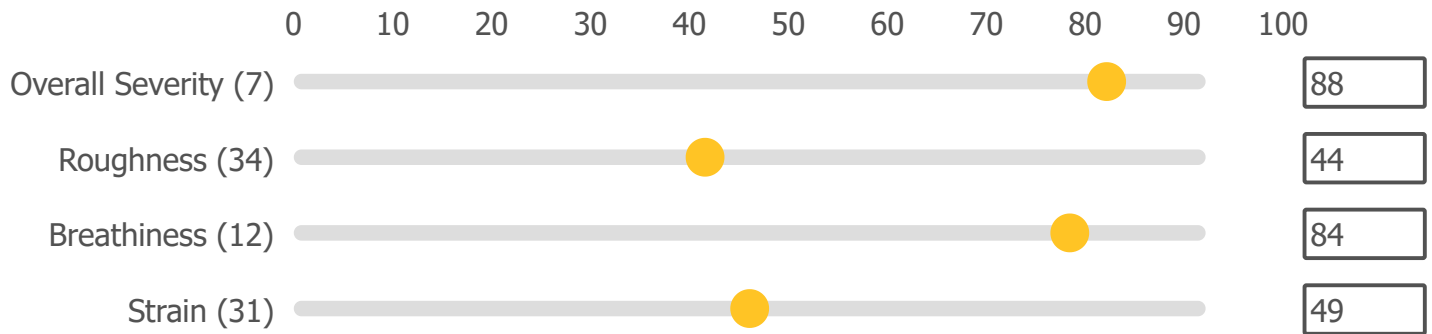


▶ 0:00 / 0:28



PT058

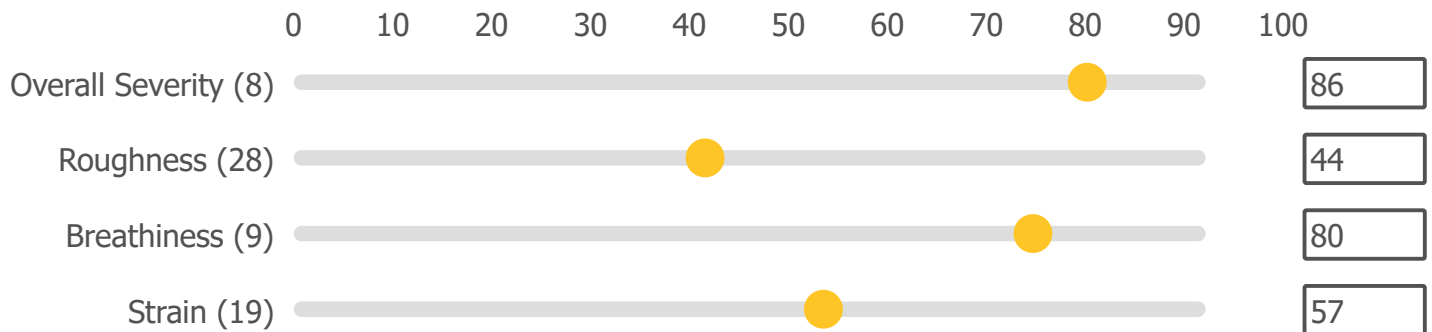
DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:33

NYU1022

DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.

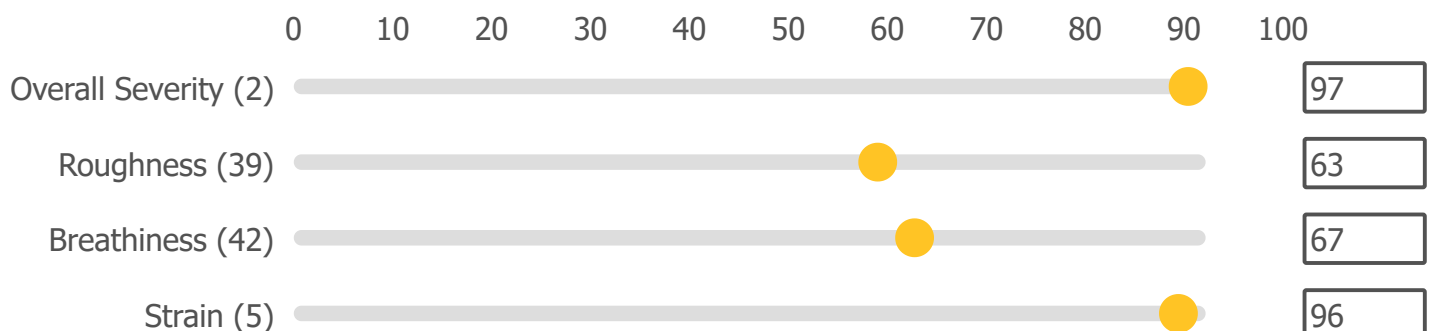


The following samples demonstrate "**Strain**".

▶ 0:00 / 0:24

PT015

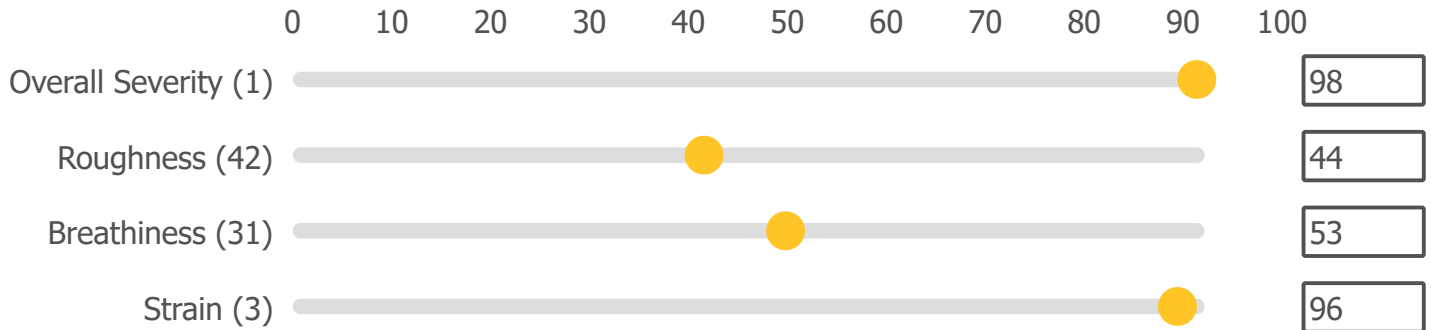
DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:19

PT019

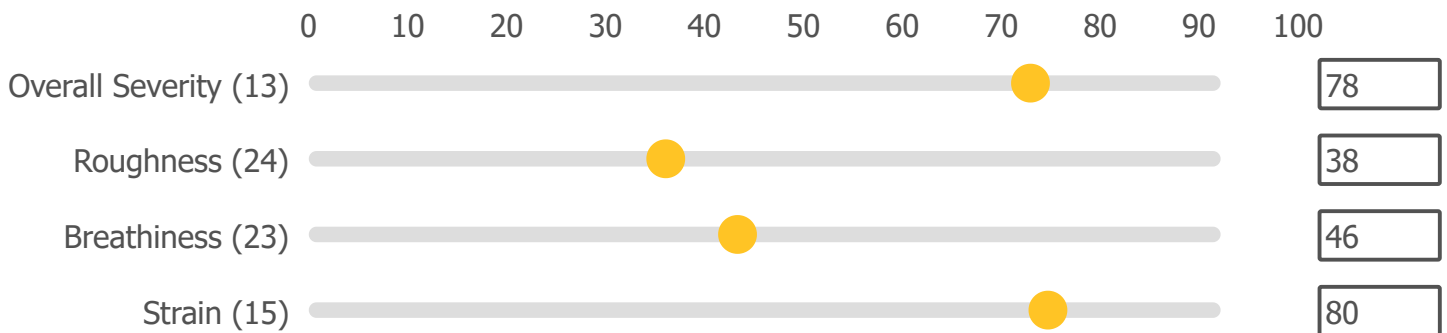
DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:25

PT065

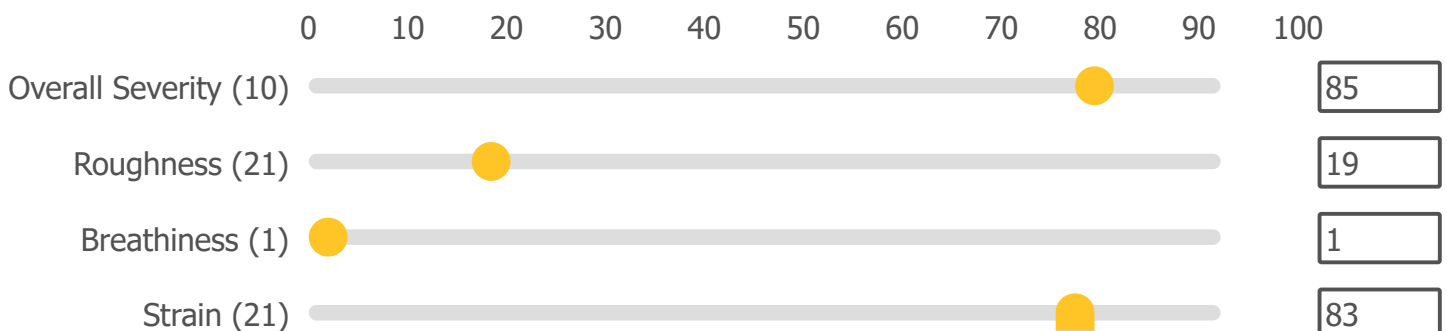
DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.



▶ 0:00 / 0:15

PT126

DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.

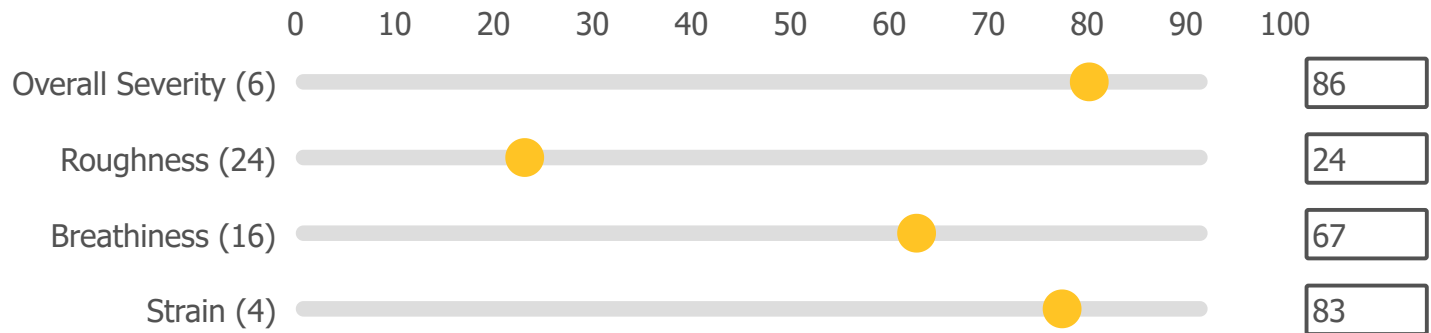


▶ 0:00 / 0:28



LA5003

DO NOT MOVE THESE RATINGS. The following ratings represent the mean rating from 3 expert listeners. Moving the sliders will remove the expert rating values.



## Feedback

This training module is a work in progress. Do you have any suggestions for improvement? Please feel free to describe them here before ending the module.

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