

# Meta Analysis

ak1017

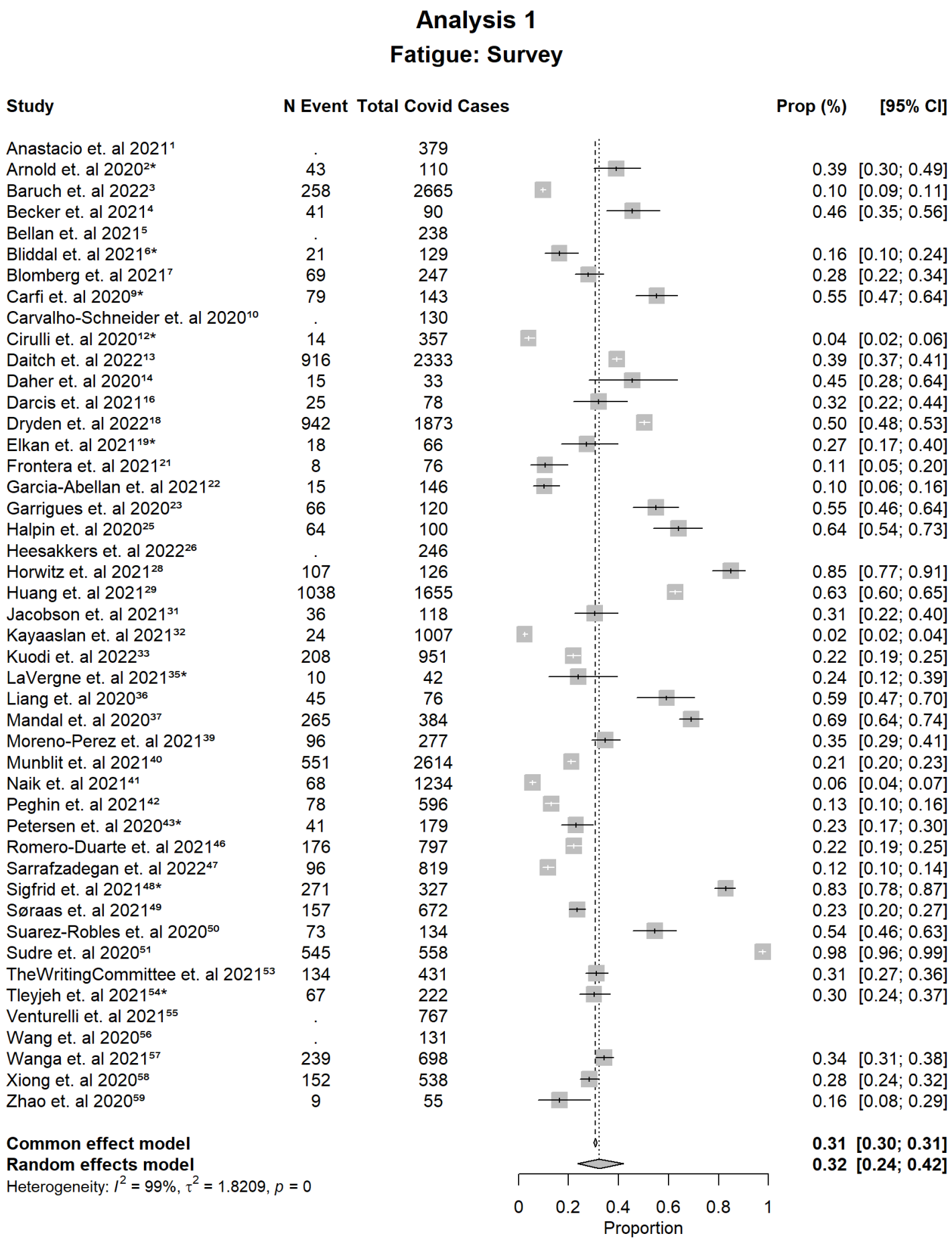
2023-09-28

- Analysis 1, stratified by Survey, Long COVID, EHR
  - Fatigue:
  - Fever Chills Sweats Or Flushing:
  - Post Exertional Malaise:
  - Cardiac Symptoms Including Chest Pain:
  - Persistant Cough:
  - Shortness Of Breath:
  - Sleep Problems:
  - Problems Thinking Or Concentrating:
  - Dizziness:
  - Headache:
  - Nerve Problems Seizures:
  - Loss Of Or Change In Smell Or Taste:
  - Mental Health Concerns:
  - Joint Muscle Pain:
  - Weakness In Arms Or Legs:
  - Gi Symptoms Including Abdominal Pain:
  - Urinary Symptoms:
  - Hair Loss:
  - Skin Rash:
  - Hearing Problems:
  - Vision Problems:
- Analysis 2, stratified by Risk of Bias High, Risk of Bias Moderate, Risk of Bias Low
  - Fatigue:
  - Fever Chills Sweats Or Flushing:
  - Post Exertional Malaise:
  - Cardiac Symptoms Including Chest Pain:
  - Persistant Cough:
  - Shortness Of Breath:
  - Sleep Problems:
  - Problems Thinking Or Concentrating:
  - Dizziness:
  - Headache:
  - Nerve Problems Seizures:
  - Loss Of Or Change In Smell Or Taste:
  - Mental Health Concerns:
  - Joint Muscle Pain:
  - Weakness In Arms Or Legs:
  - Gi Symptoms Including Abdominal Pain:
  - Urinary Symptoms:
  - Hair Loss:
  - Skin Rash:
  - Hearing Problems:
  - Vision Problems:
- Analysis 3, stratified by Survey, EHR
  - Fatigue:
  - Fever Chills Sweats Or Flushing:
  - Post Exertional Malaise:
  - Cardiac Symptoms Including Chest Pain:
  - Persistant Cough:
  - Shortness Of Breath:
  - Sleep Problems:
  - Problems Thinking Or Concentrating:
  - Dizziness:
  - Headache:
  - Nerve Problems Seizures:

- Loss Of Or Change In Smell Or Taste:
- Mental Health Concerns:
- Joint Muscle Pain:
- Weakness In Arms Or Legs:
- Gi Symptoms Including Abdominal Pain:
- Urinary Symptoms:
- Hair Loss:
- Skin Rash:
- Hearing Problems:
- Vision Problems:
- Analysis 4, stratified by hospitalized, non-hospitalized and mixed
  - Fatigue:
  - Fever Chills Sweats Or Flushing:
  - Post Exertional Malaise:
  - Cardiac Symptoms Including Chest Pain:
  - Persistant Cough:
  - Shortness Of Breath:
  - Sleep Problems:
  - Problems Thinking Or Concentrating:
  - Dizziness:
  - Headache:
  - Nerve Problems Seizures:
  - Loss Of Or Change In Smell Or Taste:
  - Mental Health Concerns:
  - Joint Muscle Pain:
  - Weakness In Arms Or Legs:
  - Gi Symptoms Including Abdominal Pain:
  - Urinary Symptoms:
  - Hair Loss:
  - Skin Rash:
  - Hearing Problems:
  - Vision Problems:

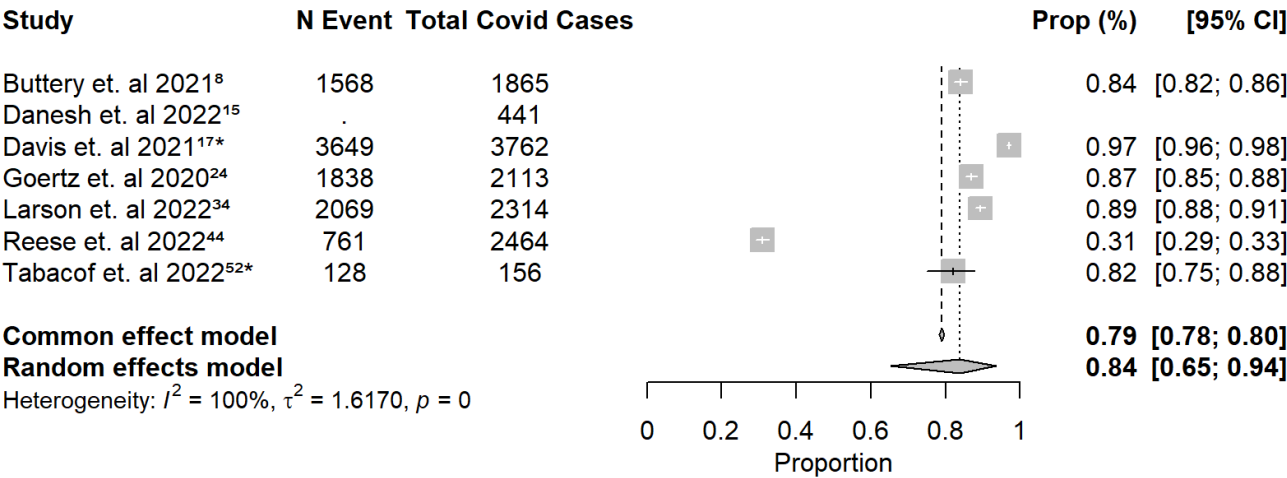
# Analysis 1, stratified by Survey, Long COVID, EHR

Fatigue:



\* indicates value estimated from a figure

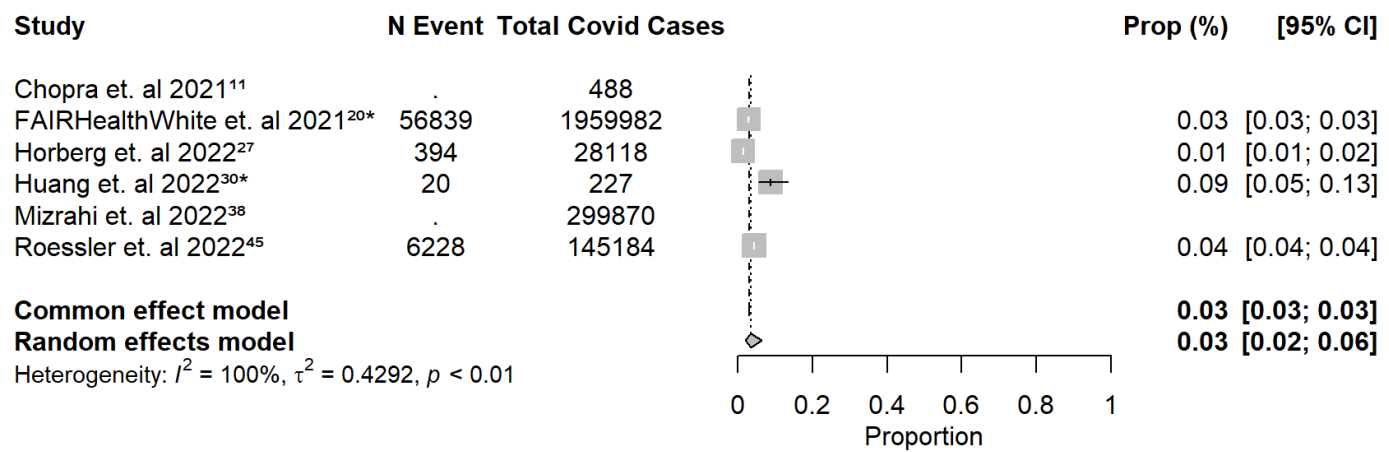
Analysis 1  
Fatigue: Long COVID



\* indicates value estimated from a figure



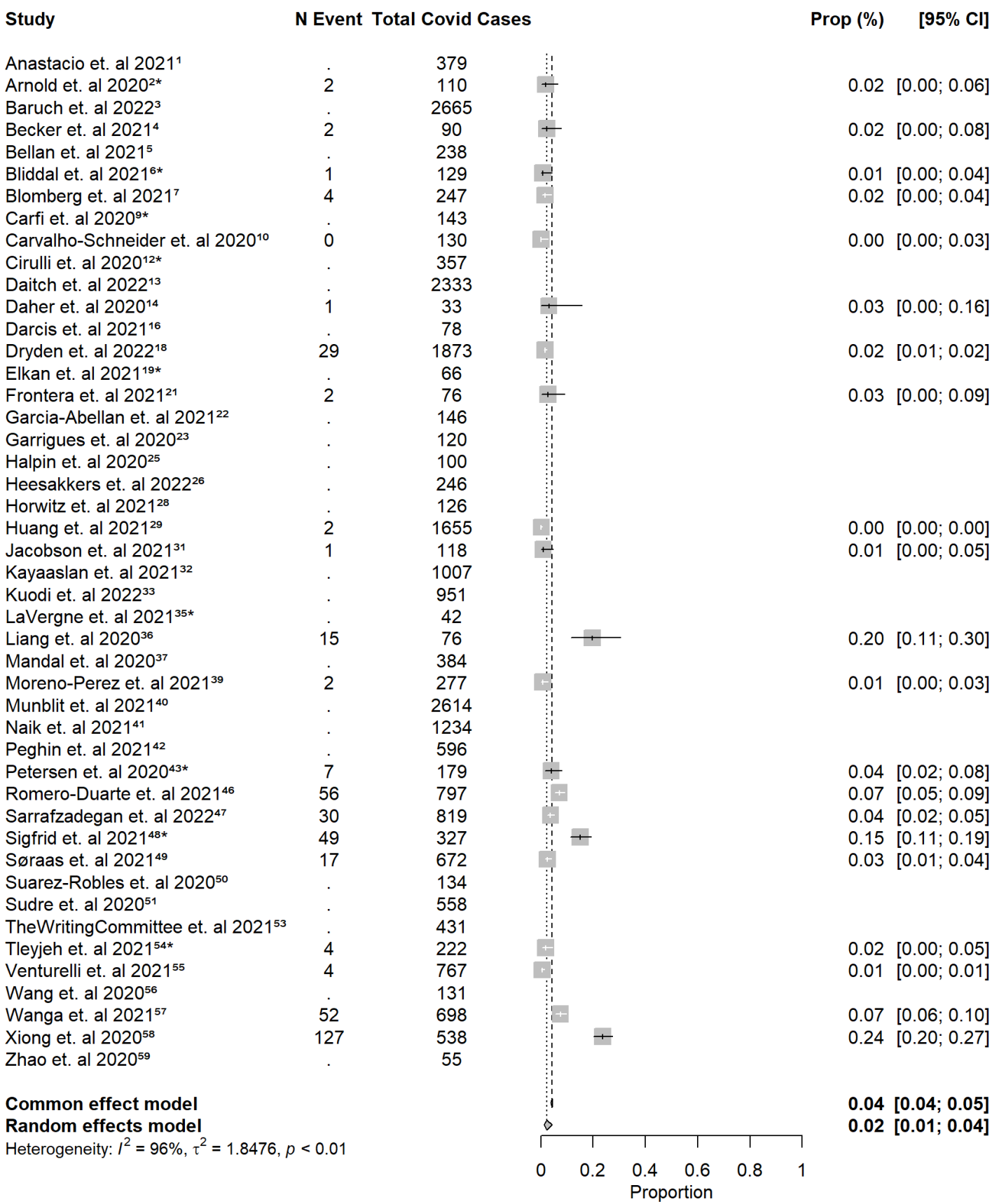
Analysis 1  
Fatigue: EHR



\* indicates value estimated from a figure

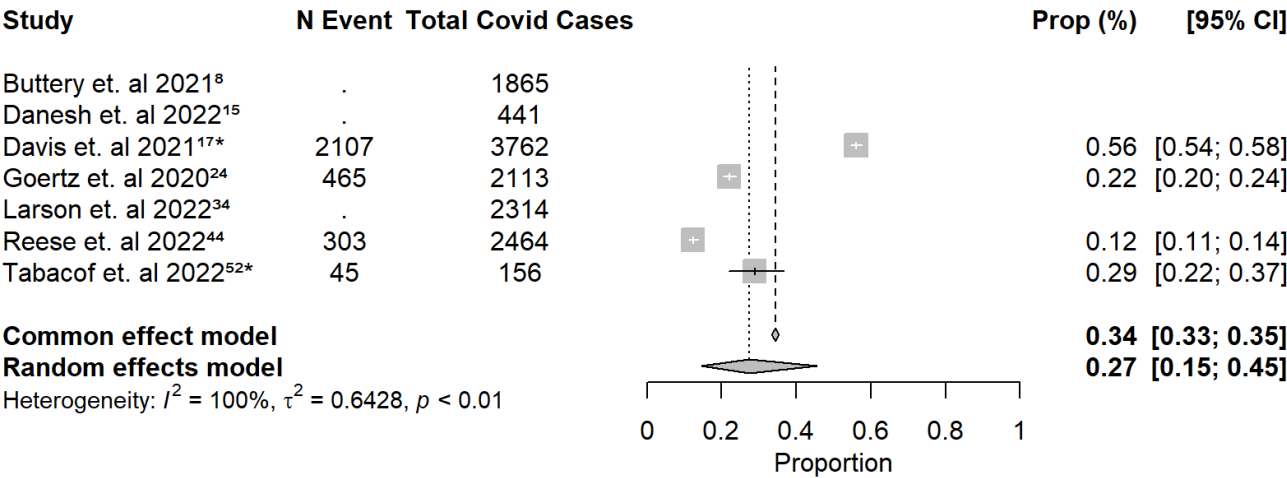
# Fever Chills Sweats Or Flushing:

## Analysis 1 Fever Chills Sweats Or Flushing: Survey



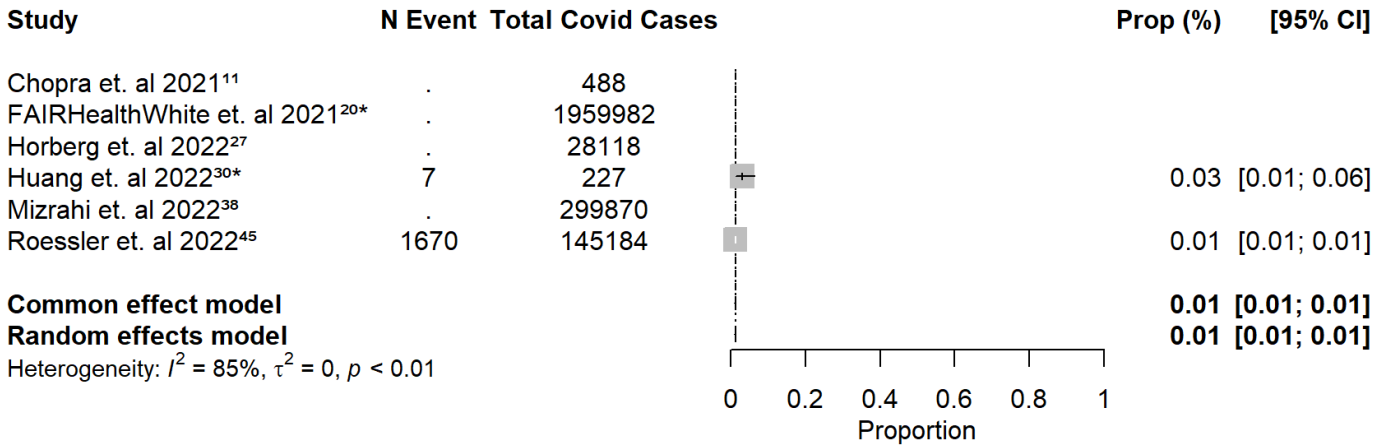
\* indicates value estimated from a figure

Analysis 1  
Fever Chills Sweats Or Flushing: Long COVID



\* indicates value estimated from a figure

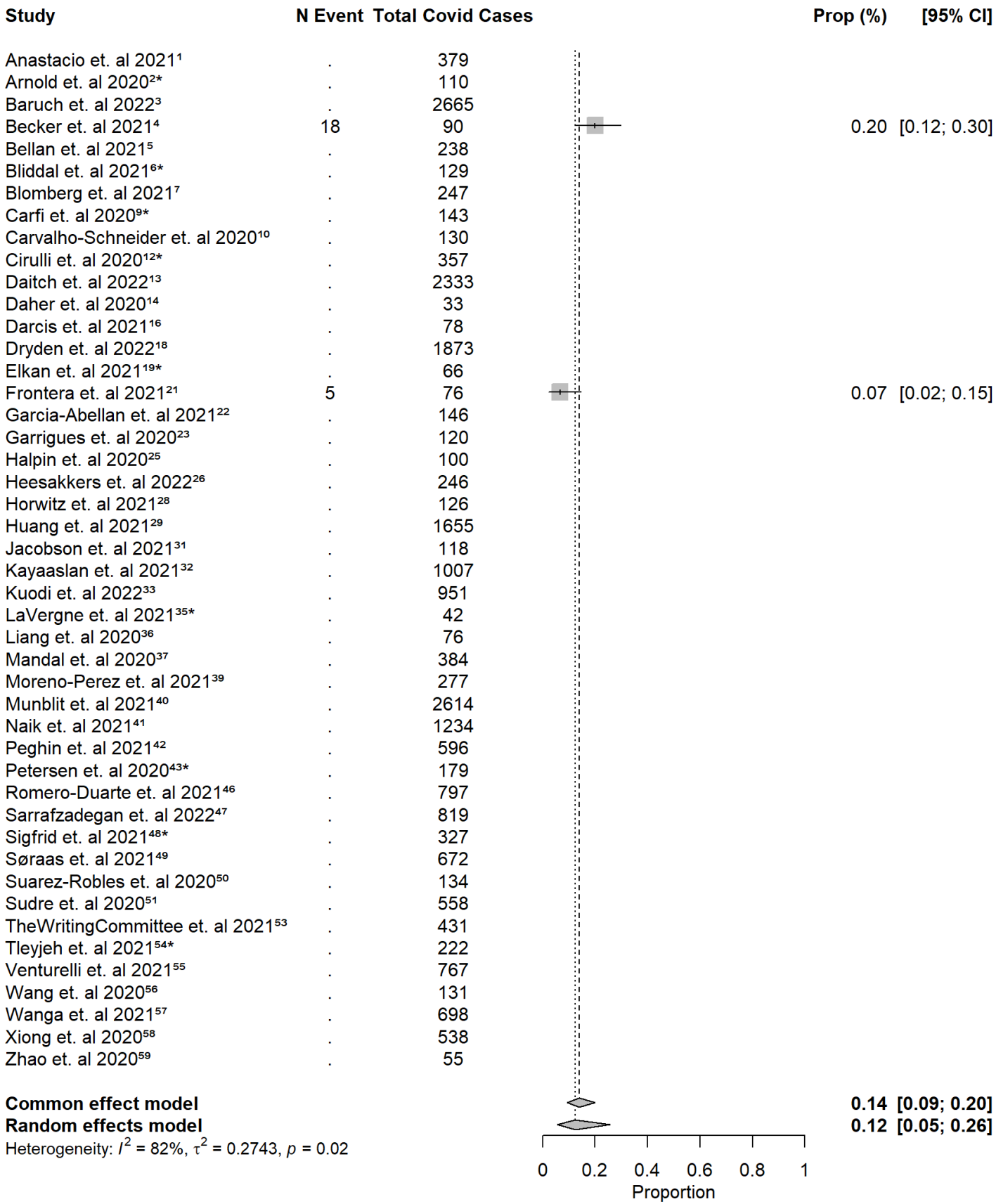
Analysis 1  
Fever Chills Sweats Or Flushing: EHR



\* indicates value estimated from a figure

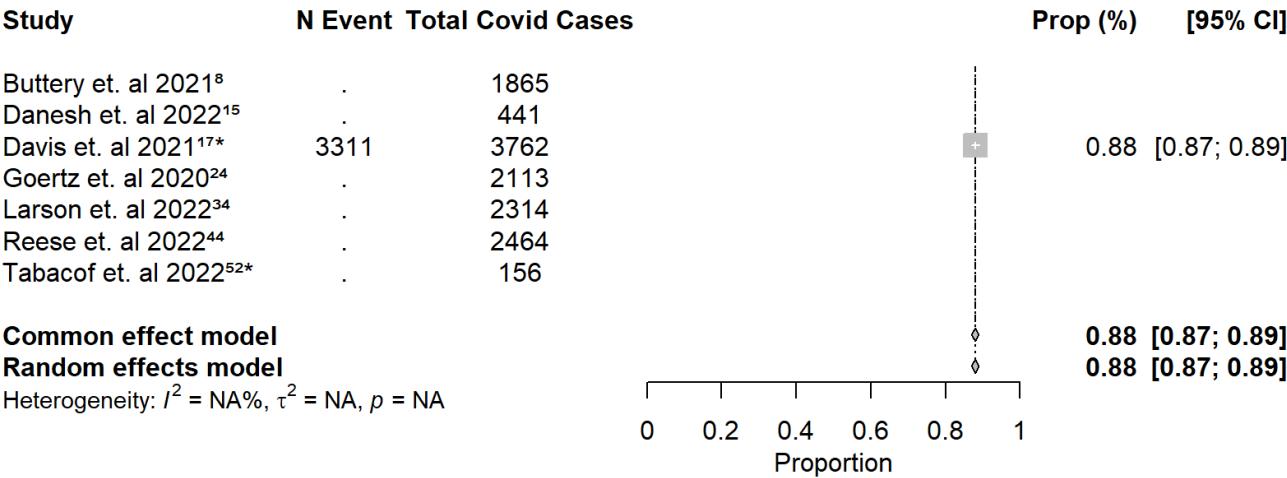
Post Exertional Malaise:

Analysis 1  
Post Exertional Malaise: Survey



\* indicates value estimated from a figure

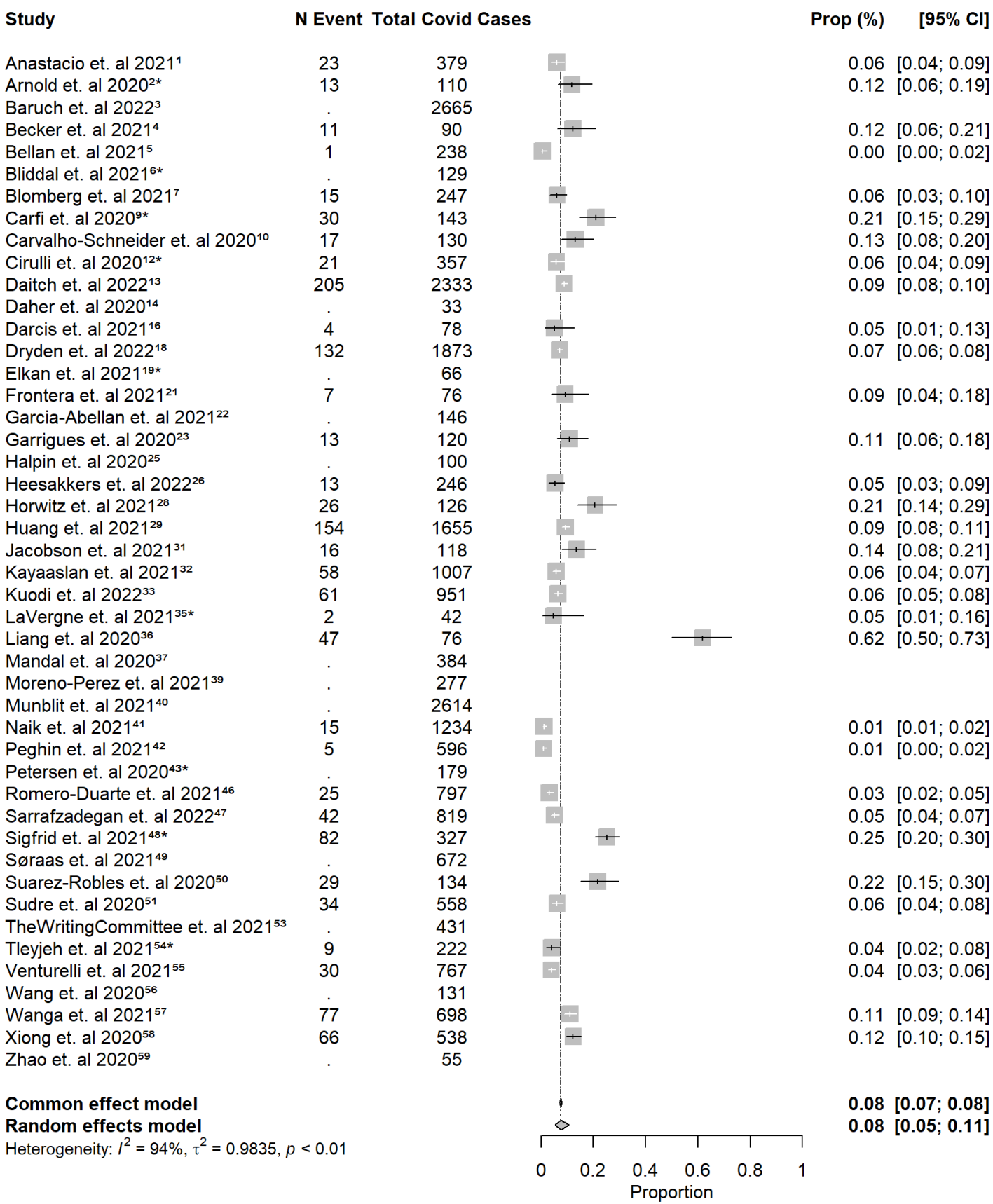
Analysis 1  
Post Exertional Malaise: Long COVID



\* indicates value estimated from a figure

# Cardiac Symptoms Including Chest Pain:

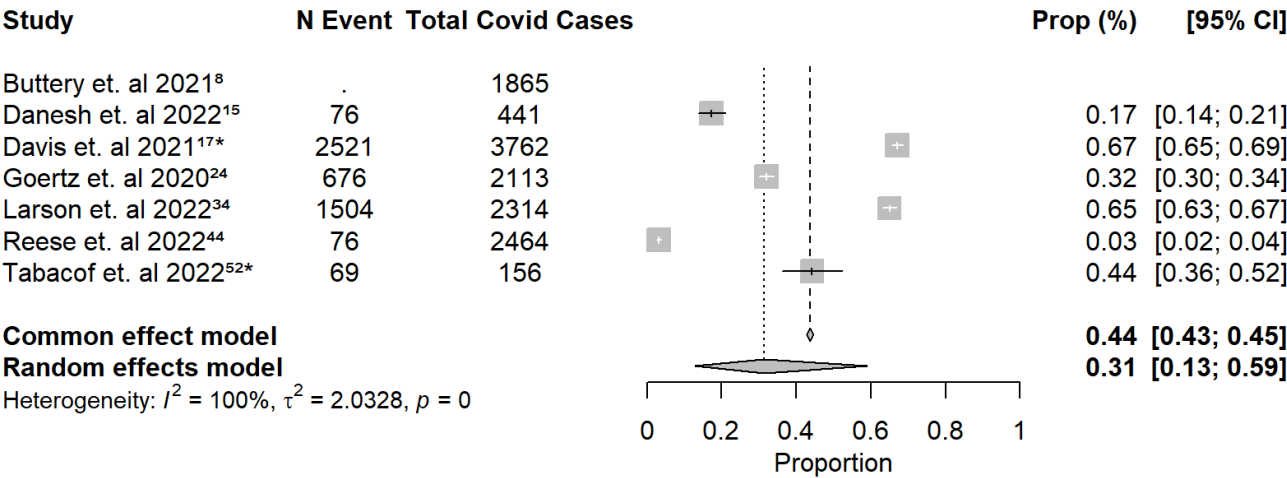
## Analysis 1 Cardiac Symptoms Including Chest Pain: Survey



\* indicates value estimated from a figure

Analysis 1

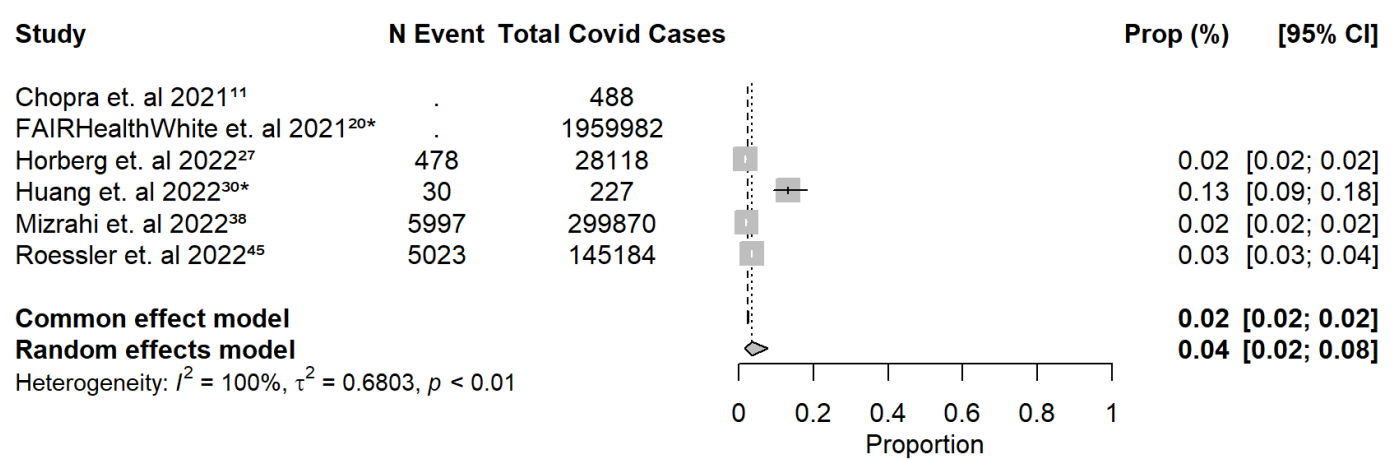
Cardiac Symptoms Including Chest Pain: Long COVID



\* indicates value estimated from a figure



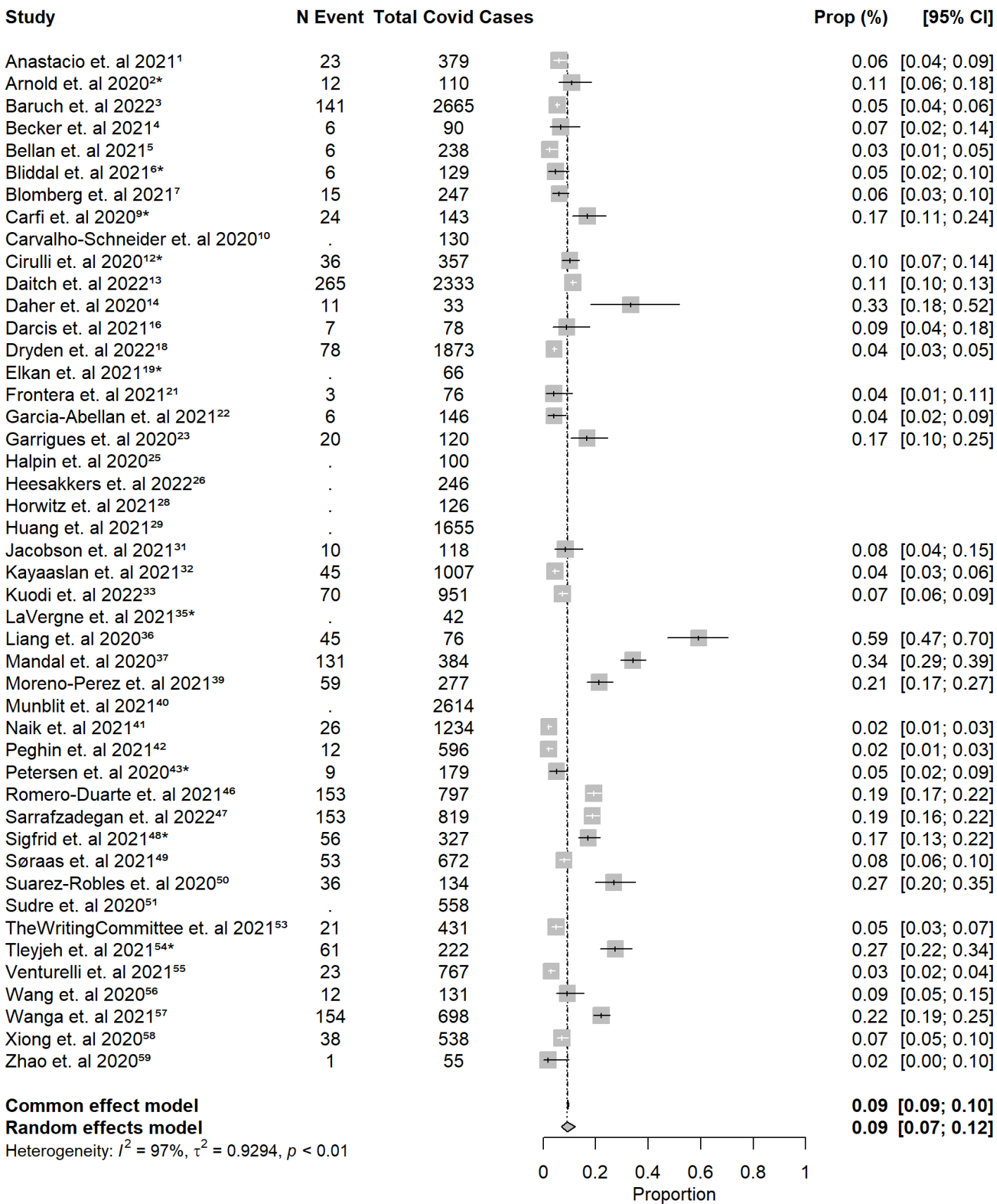
Analysis 1  
Cardiac Symptoms Including Chest Pain: EHR



\* indicates value estimated from a figure

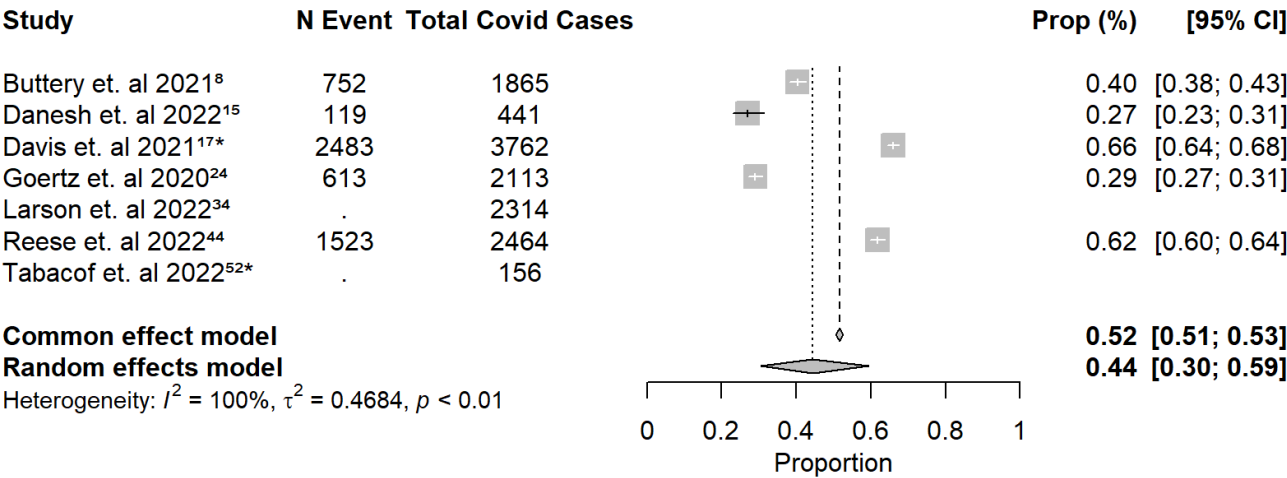
Persistant Cough:

Analysis 1  
Persistant Cough: Survey



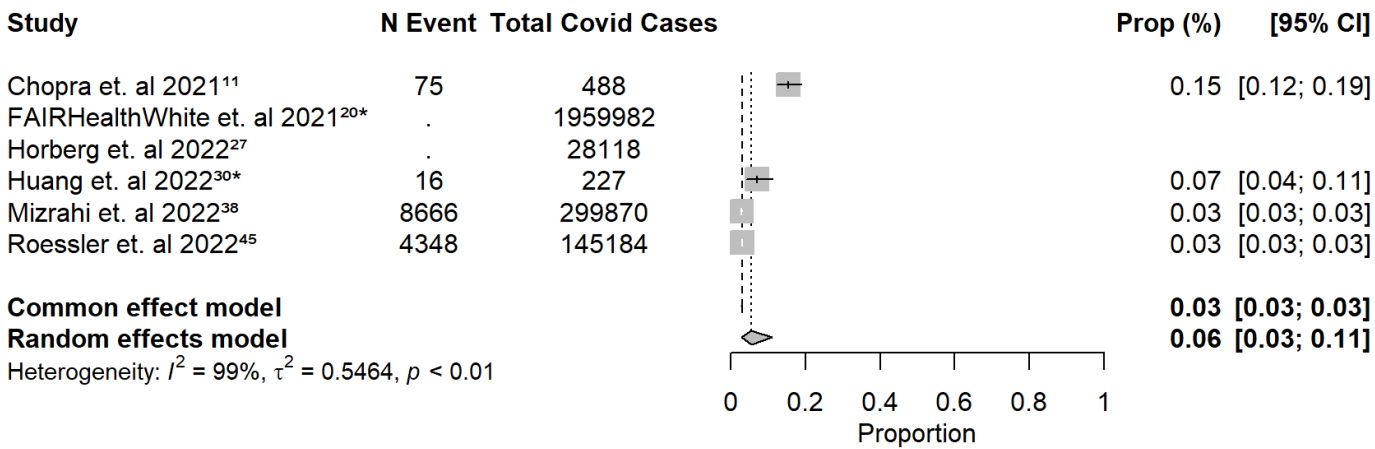
\* indicates value estimated from a figure

Analysis 1  
Persistant Cough: Long COVID



\* indicates value estimated from a figure

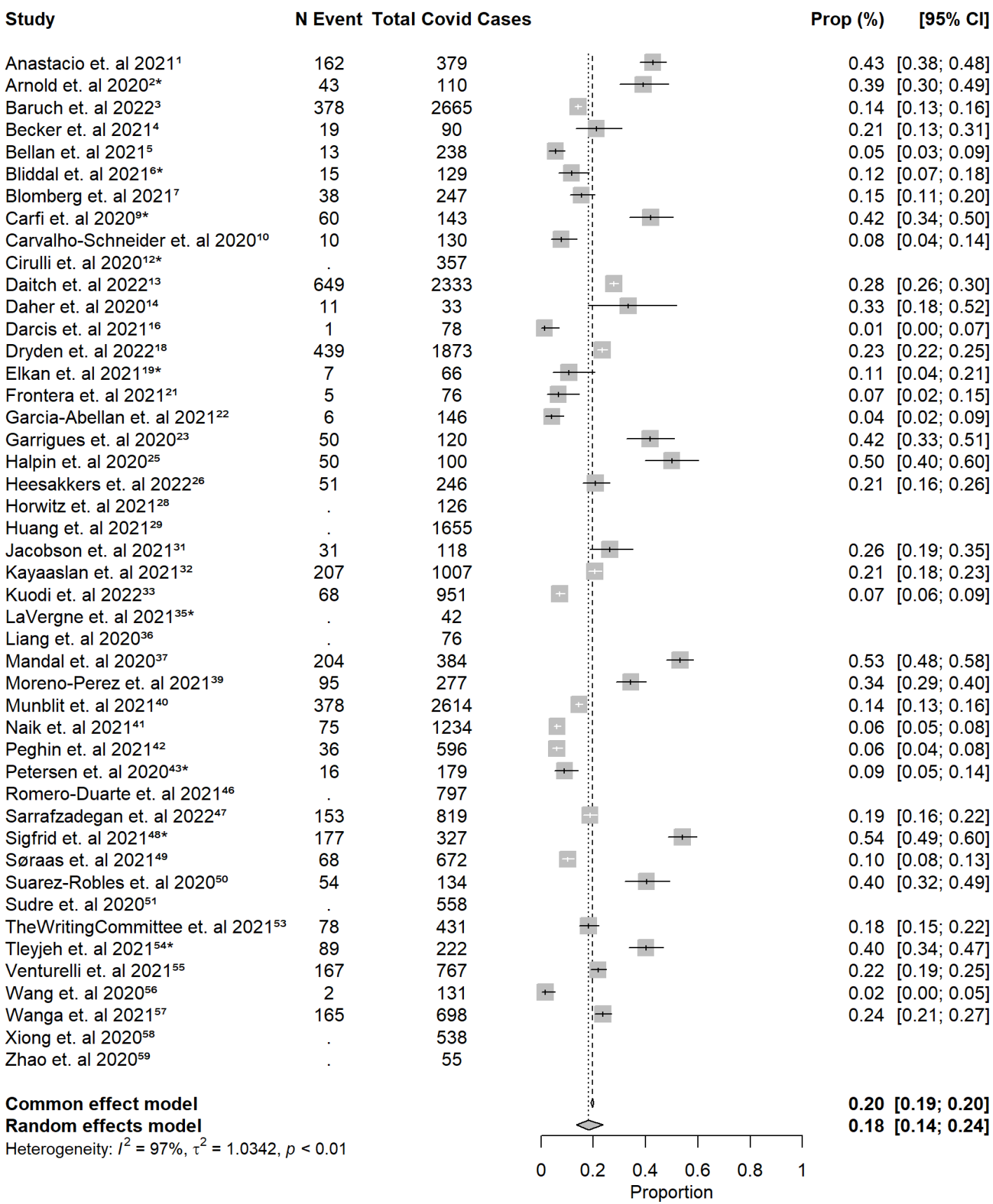
Analysis 1  
Persistant Cough: EHR



\* indicates value estimated from a figure

# Shortness Of Breath:

## Analysis 1 Shortness Of Breath: Survey



\* indicates value estimated from a figure

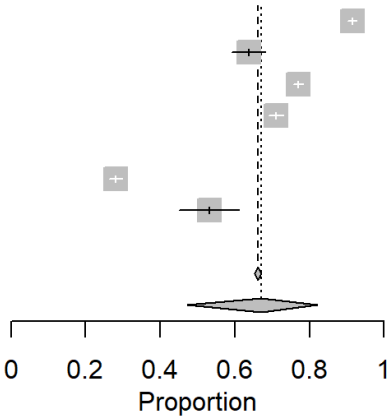
Analysis 1  
Shortness Of Breath: Long COVID

Study	N Event	Total Covid Cases	Prop (%)	[95% CI]
Buttery et. al 2021 <sup>8</sup>	1707	1865	0.92	[0.90; 0.93]
Danesh et. al 2022 <sup>15</sup>	281	441	0.64	[0.59; 0.68]
Davis et. al 2021 <sup>17*</sup>	2897	3762	0.77	[0.76; 0.78]
Goertz et. al 2020 <sup>24</sup>	1500	2113	0.71	[0.69; 0.73]
Larson et. al 2022 <sup>34</sup>	.	2314		
Reese et. al 2022 <sup>44</sup>	690	2464	0.28	[0.26; 0.30]
Tabacof et. al 2022 <sup>52*</sup>	83	156	0.53	[0.45; 0.61]

Common effect model

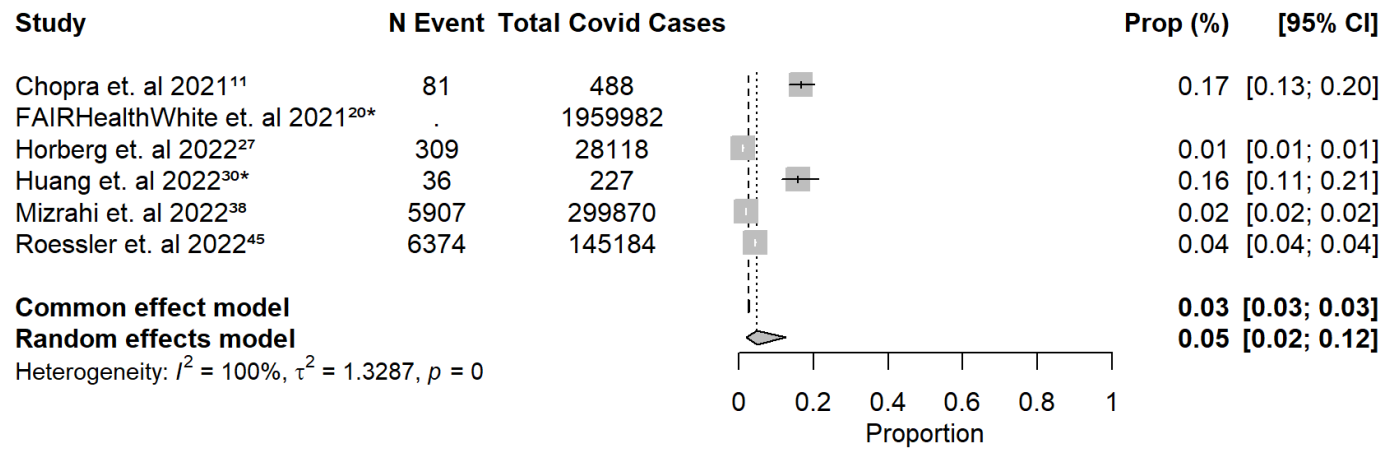
Random effects model

Heterogeneity:  $I^2 = 100\%$ ,  $\tau^2 = 1.0267$ ,  $p = 0$



\* indicates value estimated from a figure

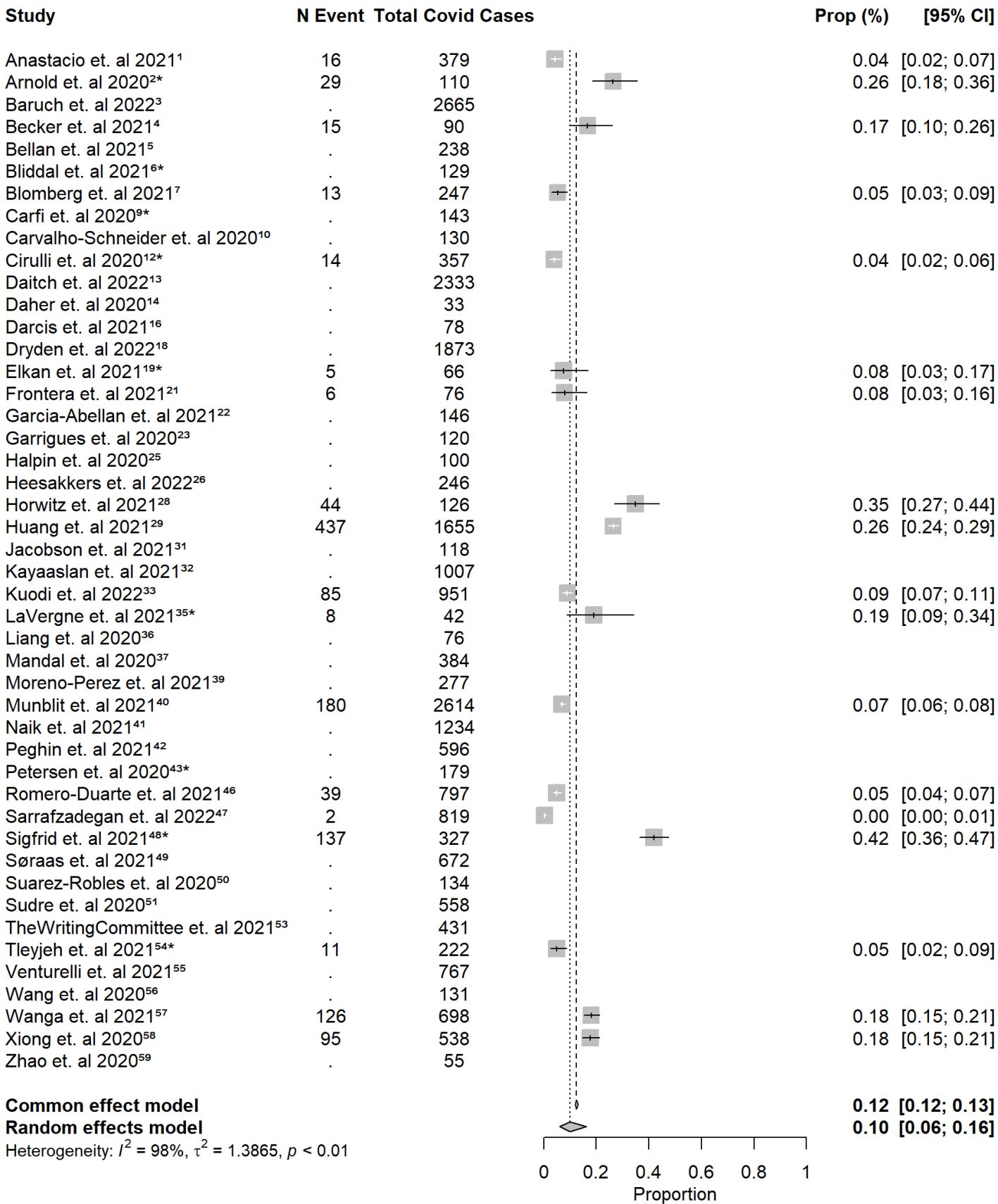
Analysis 1  
Shortness Of Breath: EHR



\* indicates value estimated from a figure

Sleep Problems:

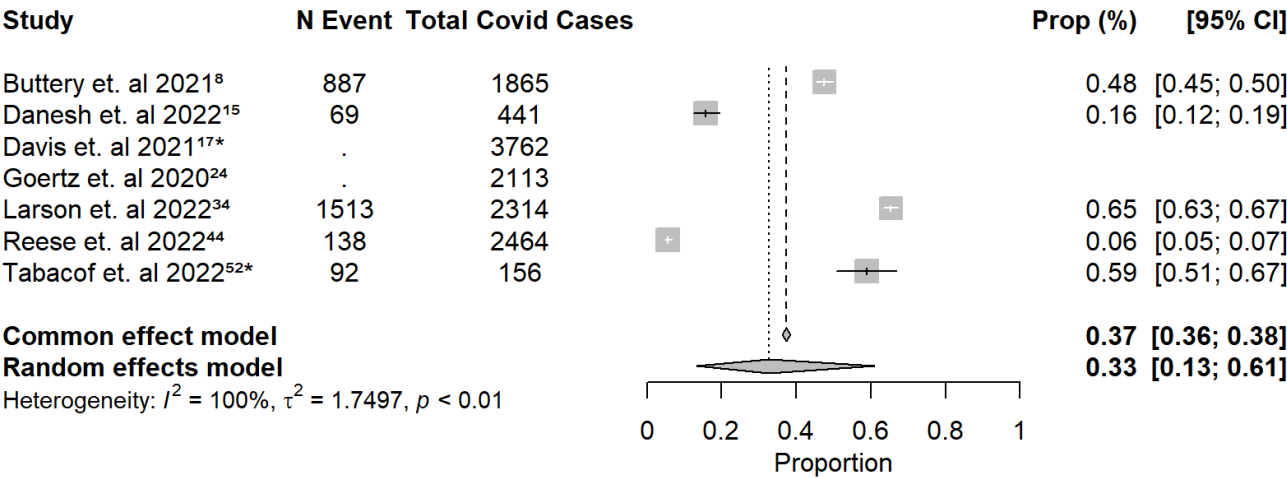
Analysis 1  
Sleep Problems: Survey



\* indicates value estimated from a figure

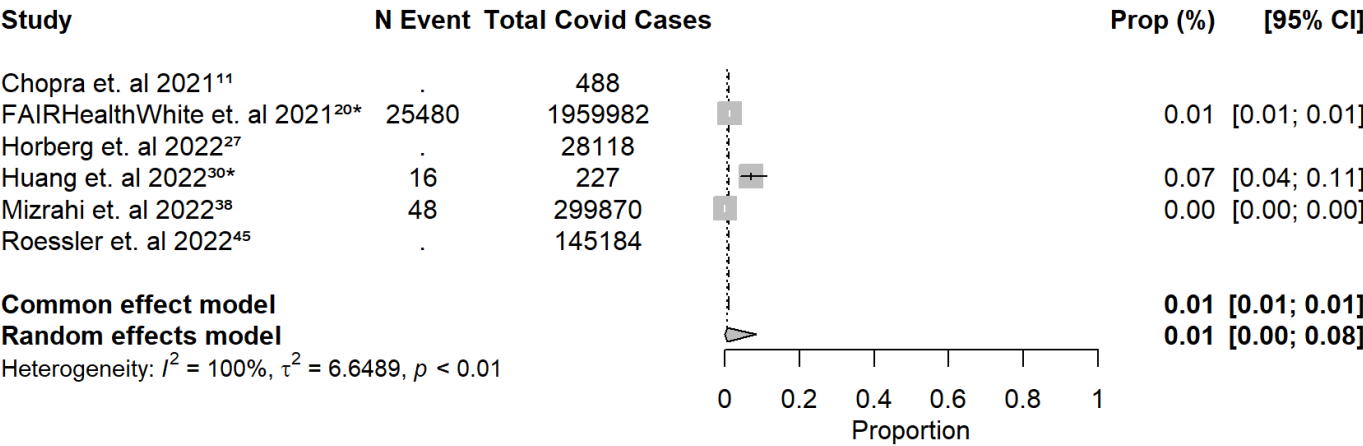


Analysis 1  
Sleep Problems: Long COVID



\* indicates value estimated from a figure

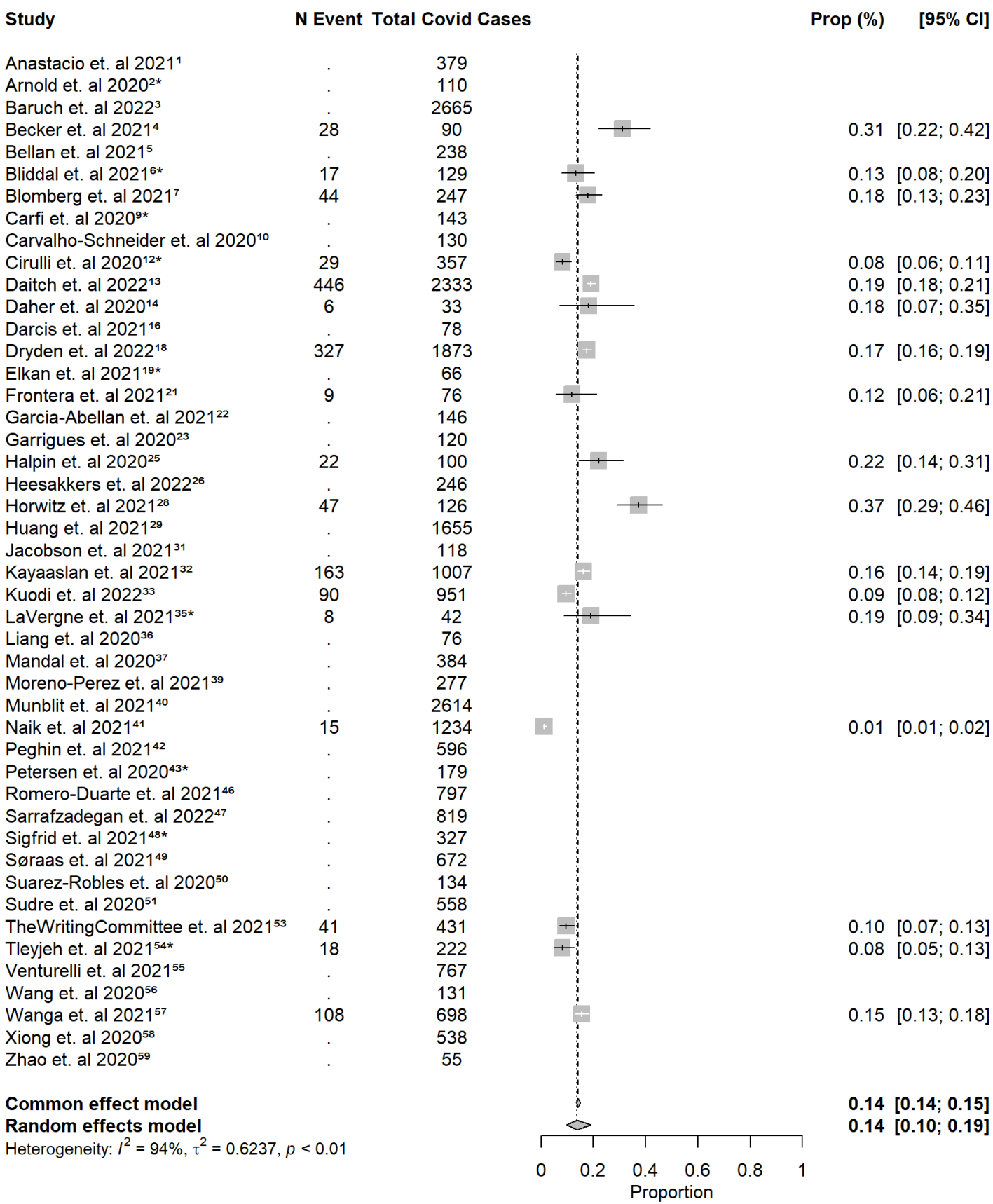
Analysis 1  
Sleep Problems: EHR



\* indicates value estimated from a figure

# Problems Thinking Or Concentrating:

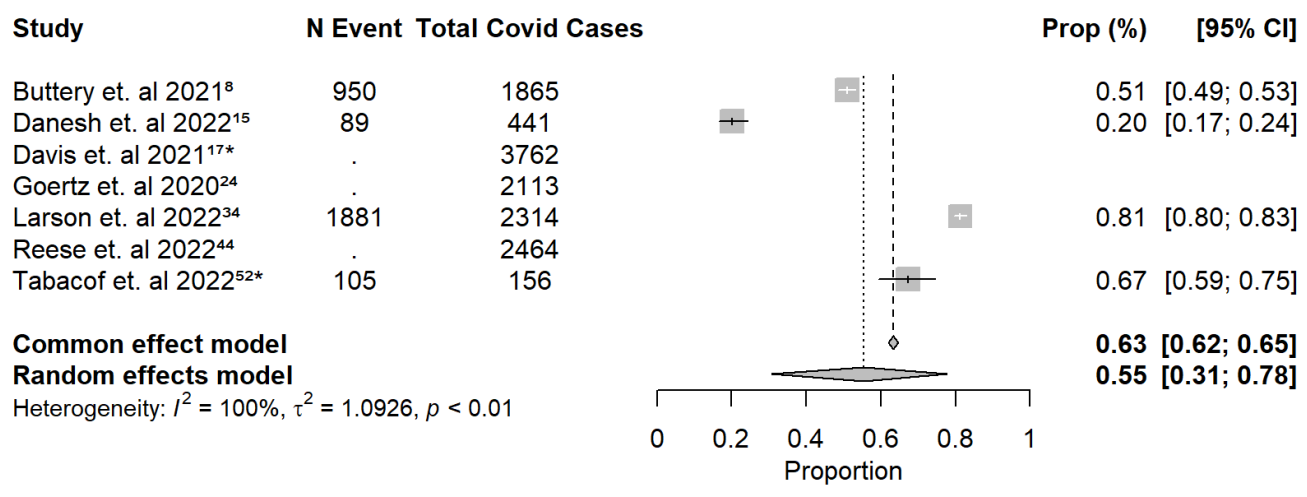
Analysis 1  
Problems Thinking Or Concentrating: Survey



\* indicates value estimated from a figure

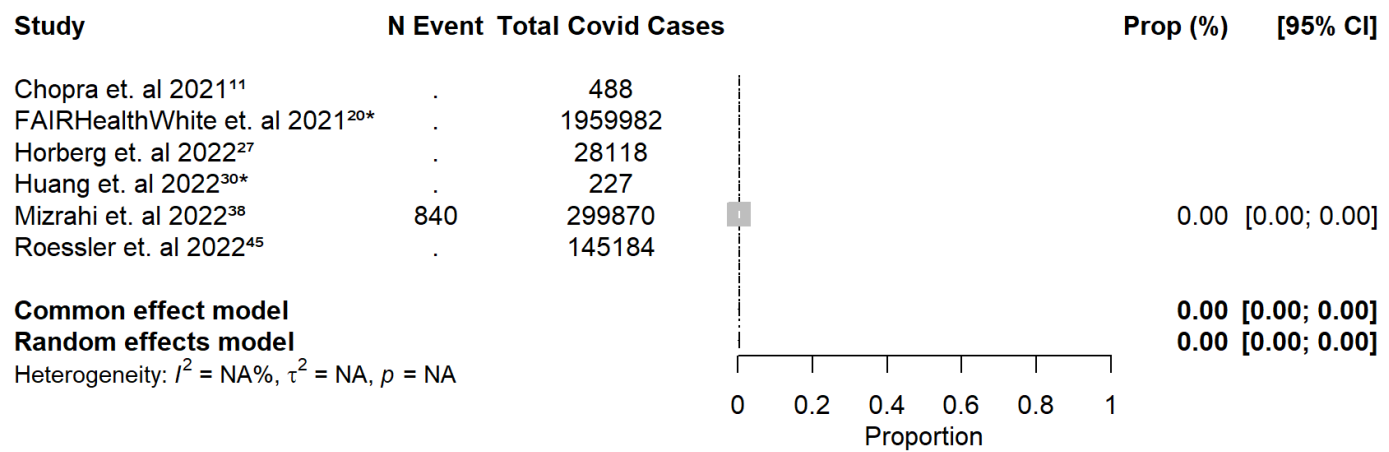
Analysis 1

Problems Thinking Or Concentrating: Long COVID



\* indicates value estimated from a figure

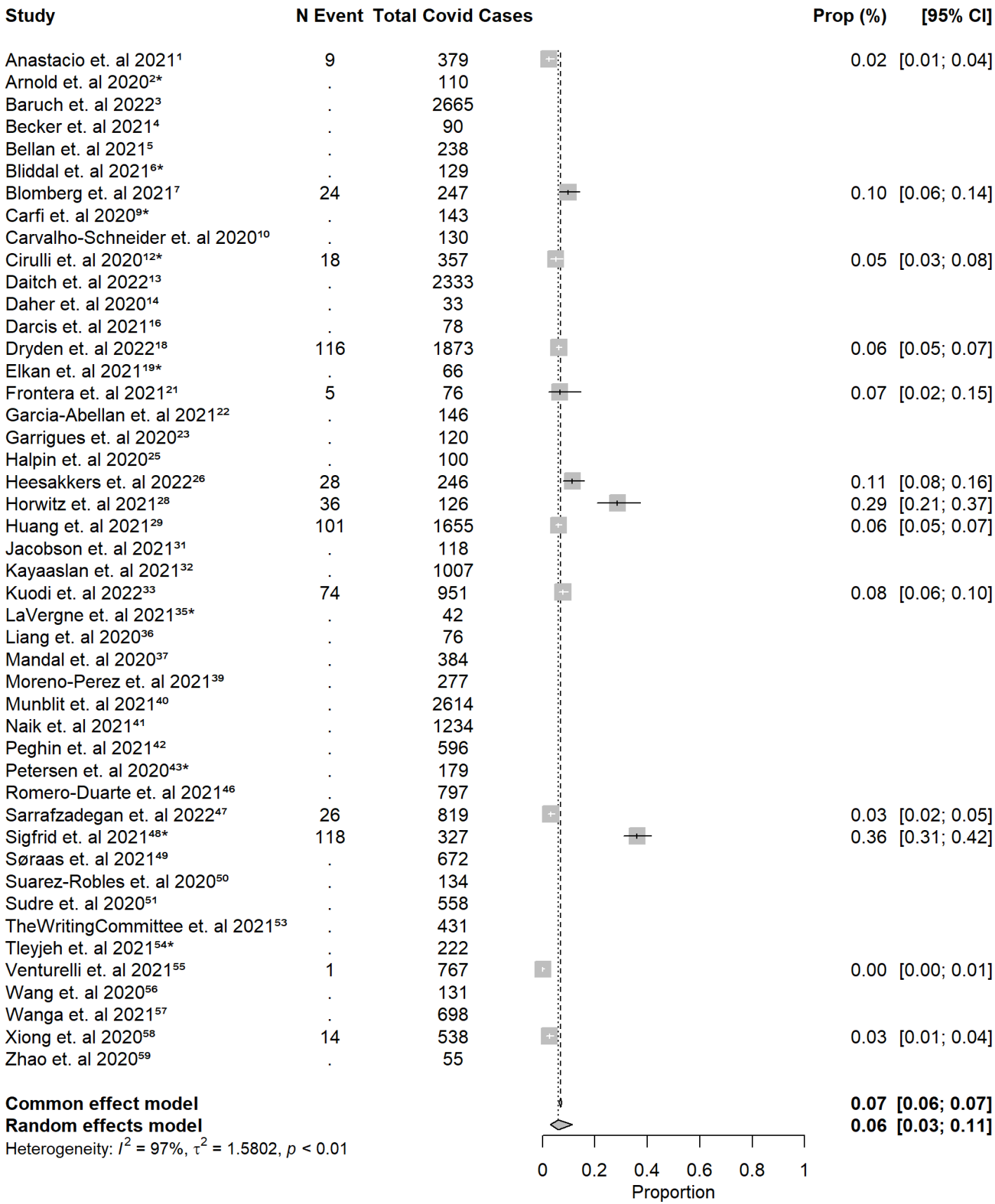
Analysis 1  
Problems Thinking Or Concentrating: EHR



\* indicates value estimated from a figure

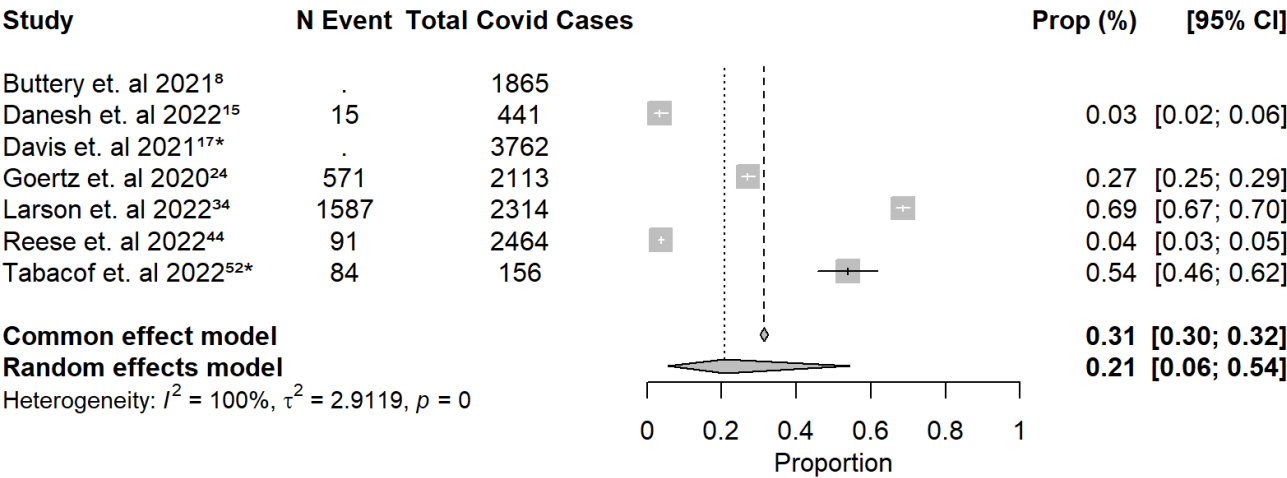
Dizziness:

Analysis 1  
Dizziness: Survey



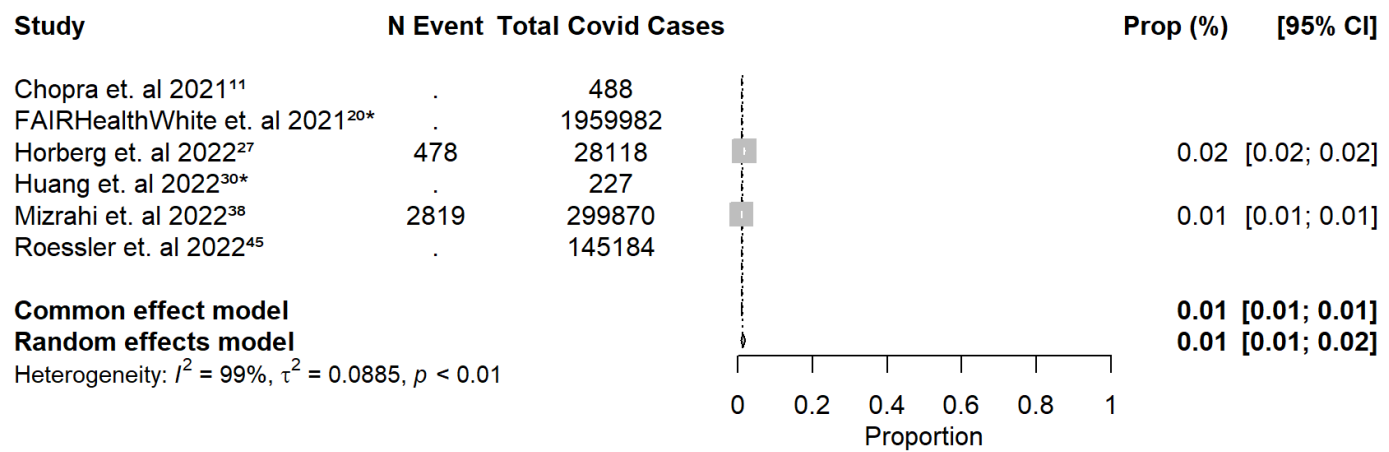
\* indicates value estimated from a figure

Analysis 1  
Dizziness: Long COVID



\* indicates value estimated from a figure

Analysis 1  
Dizziness: EHR

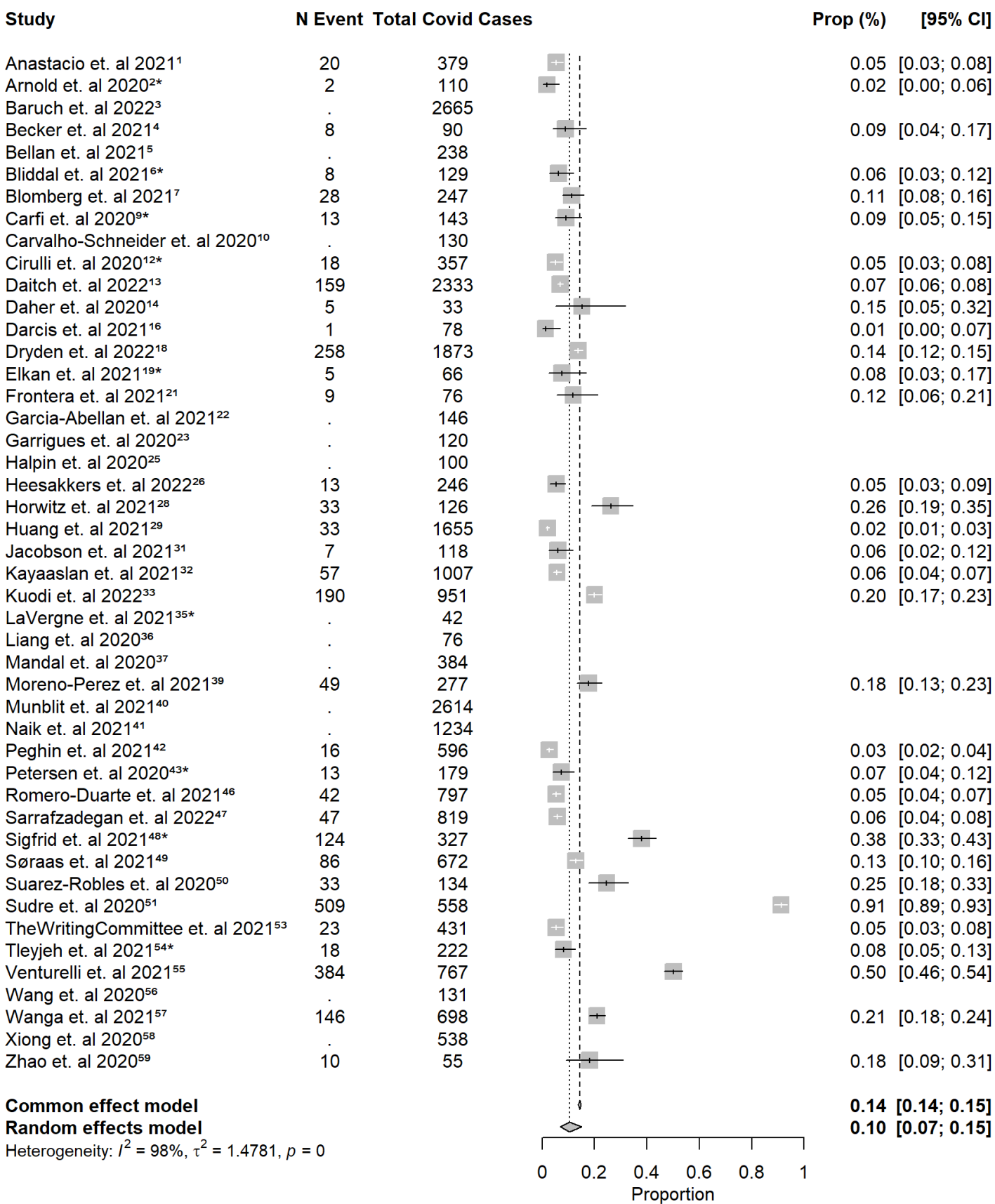


\* indicates value estimated from a figure



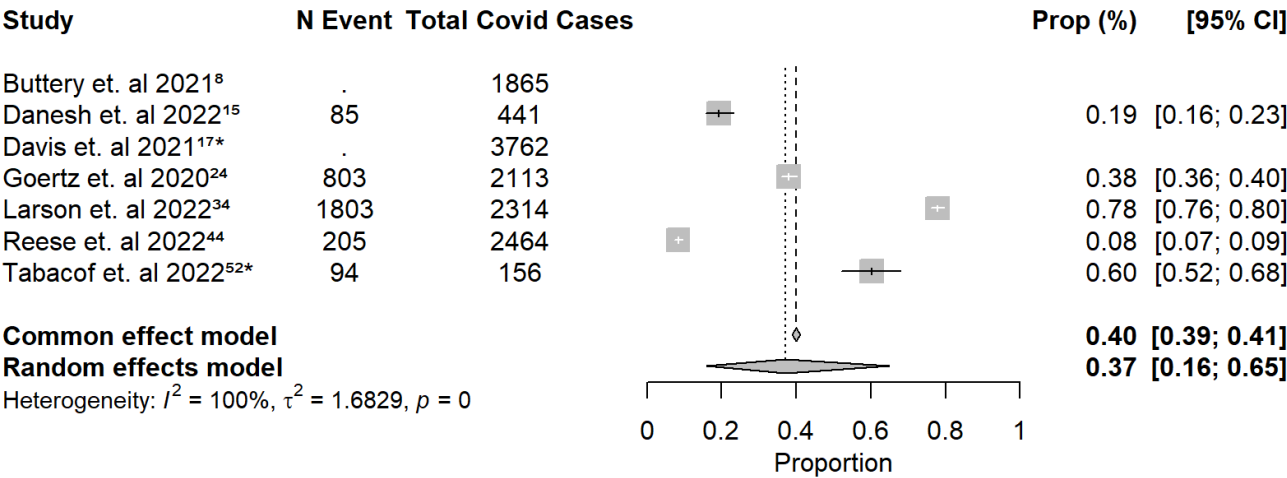
Headache:

Analysis 1  
Headache: Survey



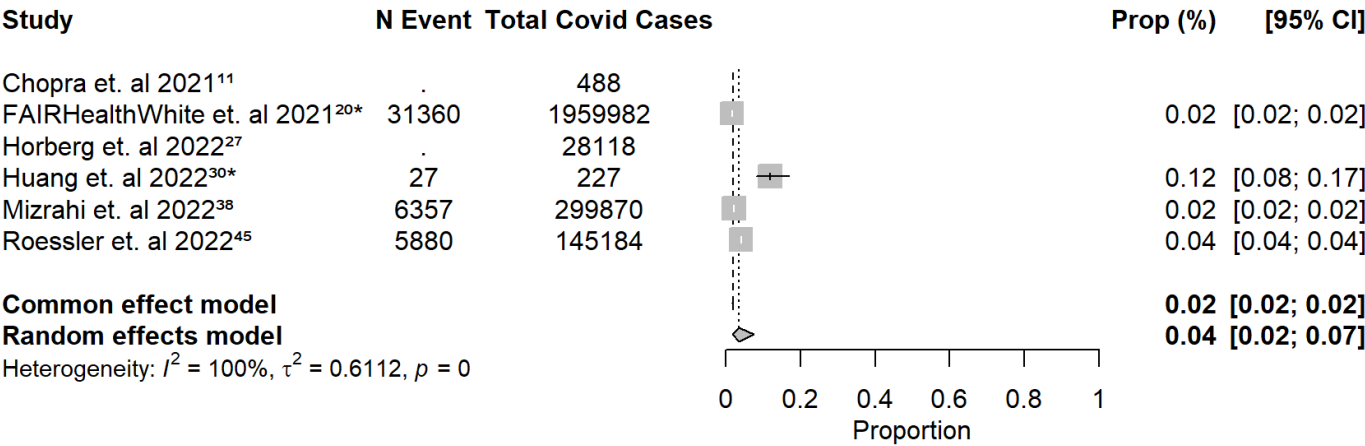
\* indicates value estimated from a figure

Analysis 1  
Headache: Long COVID



\* indicates value estimated from a figure

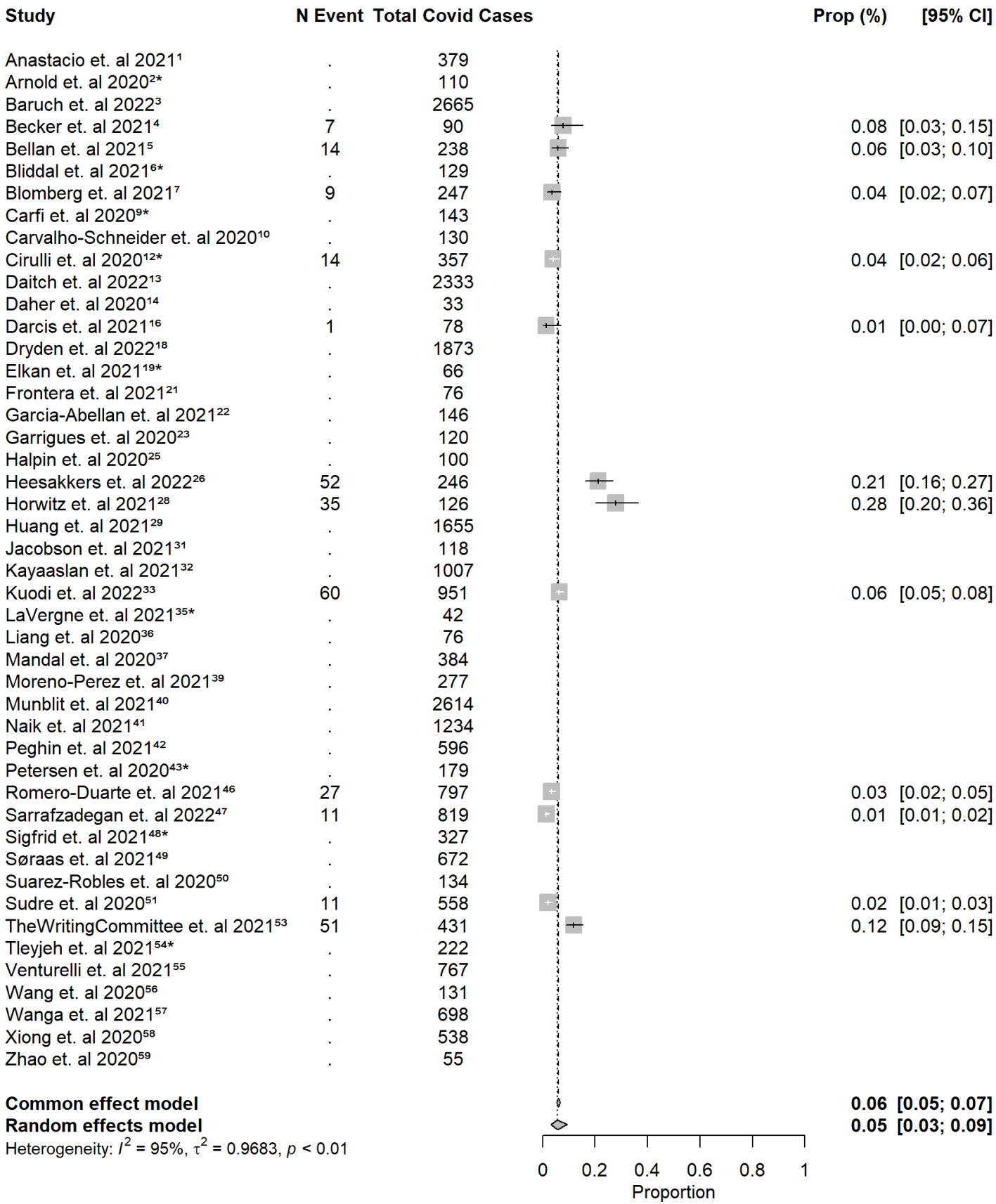
Analysis 1  
Headache: EHR



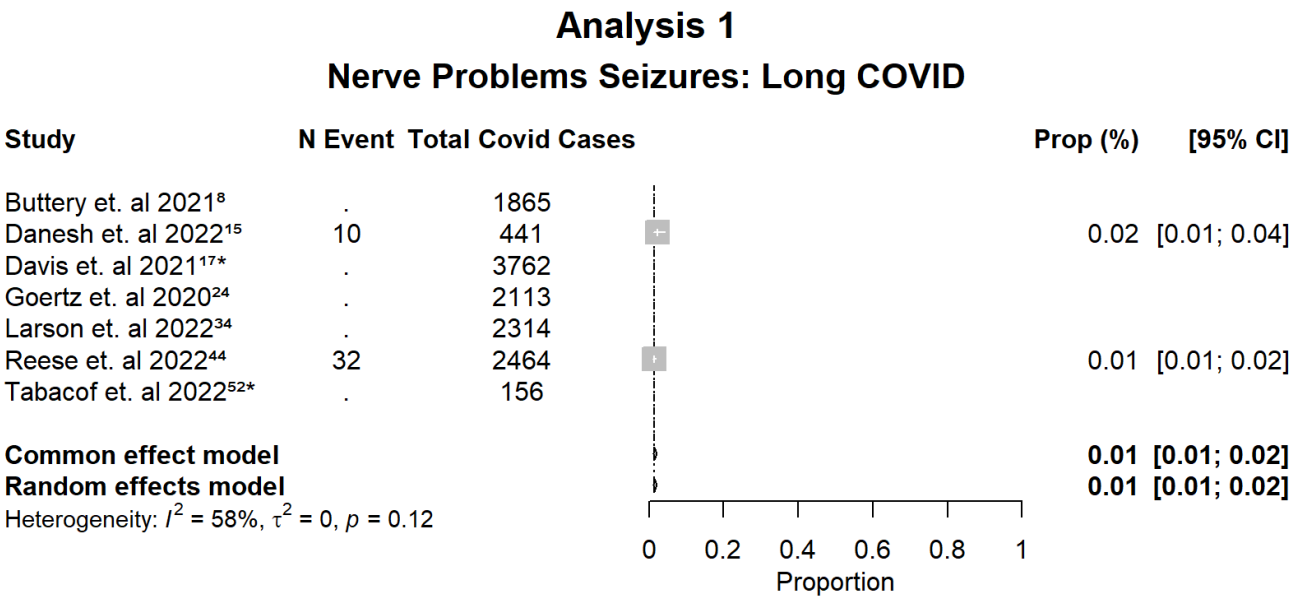
\* indicates value estimated from a figure

# Nerve Problems Seizures:

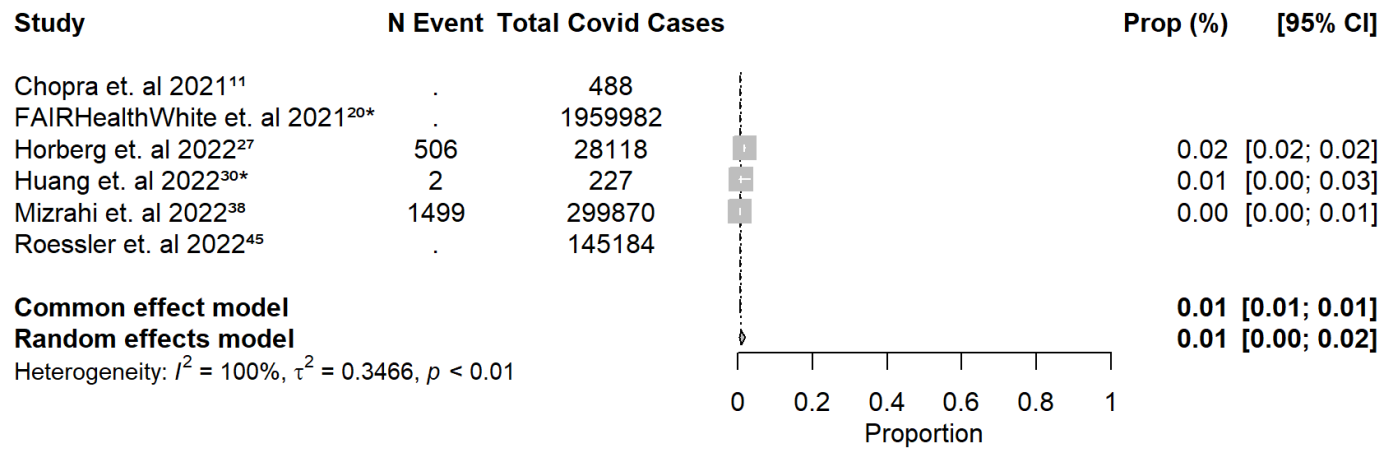
## Analysis 1 Nerve Problems Seizures: Survey



\* indicates value estimated from a figure



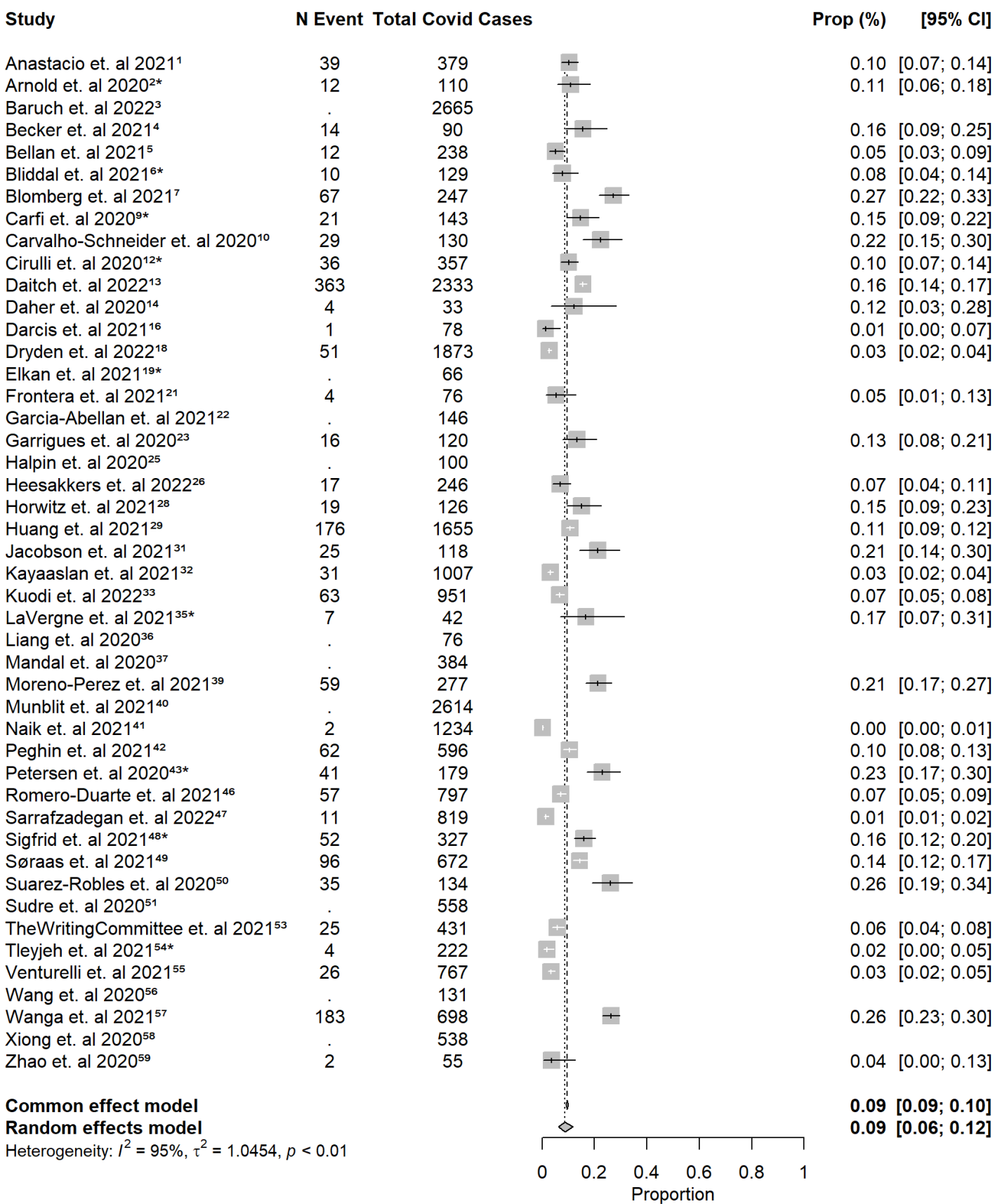
Analysis 1  
Nerve Problems Seizures: EHR



\* indicates value estimated from a figure

# Loss Of Or Change In Smell Or Taste:

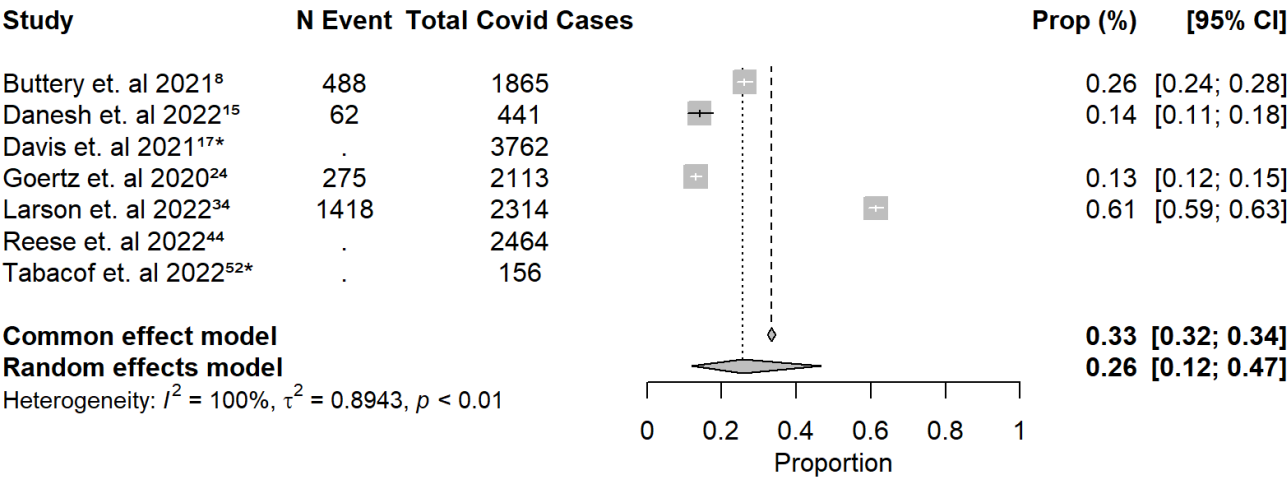
## Analysis 1 Loss Of Or Change In Smell Or Taste: Survey



\* indicates value estimated from a figure

Analysis 1

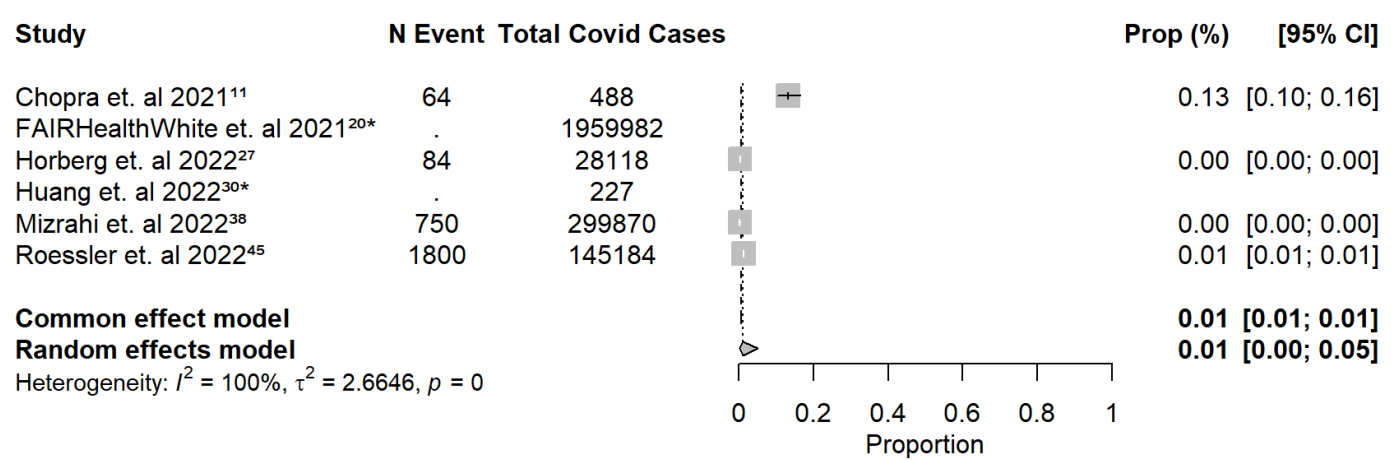
Loss Of Or Change In Smell Or Taste: Long COVID



\* indicates value estimated from a figure



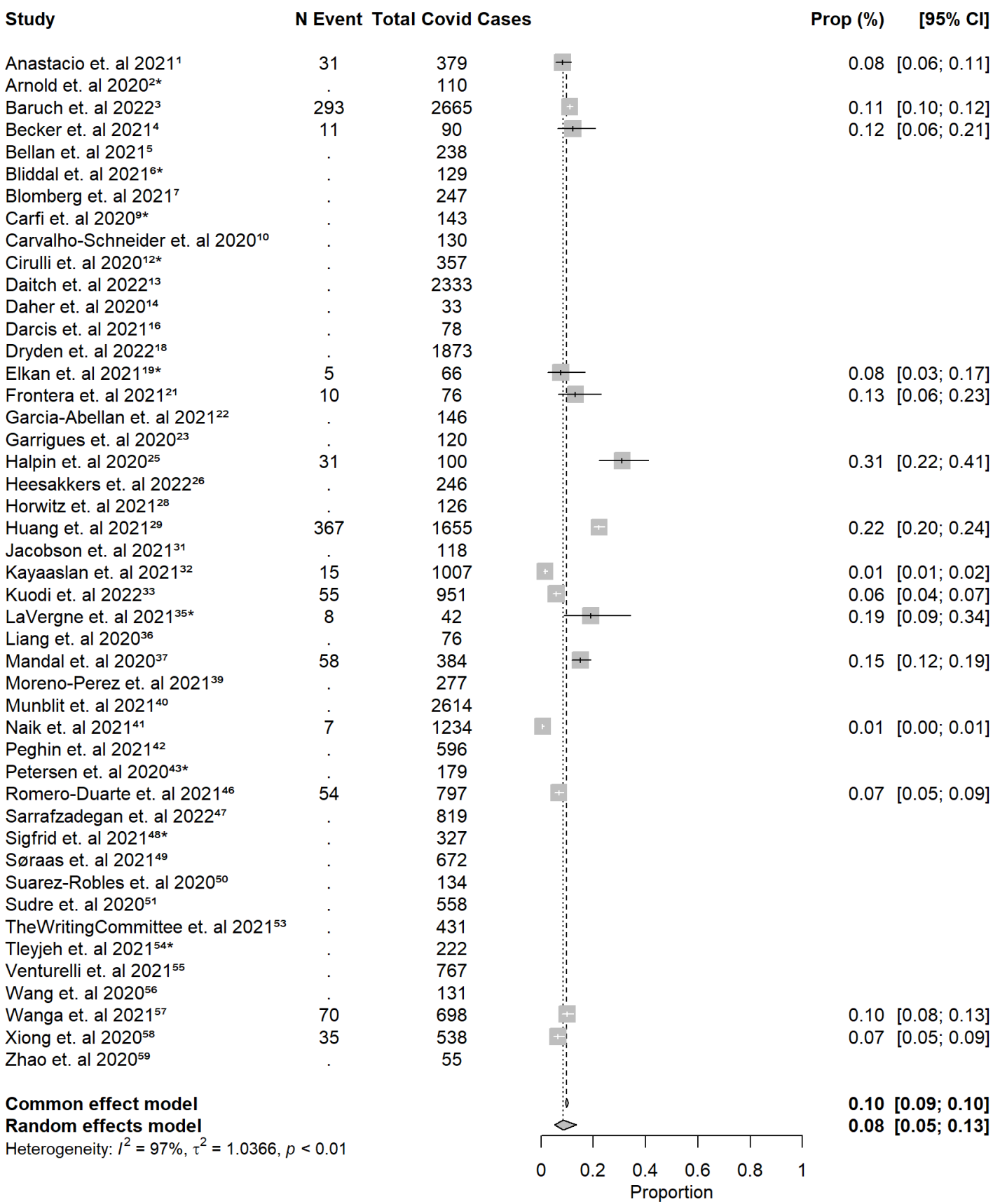
Analysis 1  
Loss Of Or Change In Smell Or Taste: EHR



\* indicates value estimated from a figure

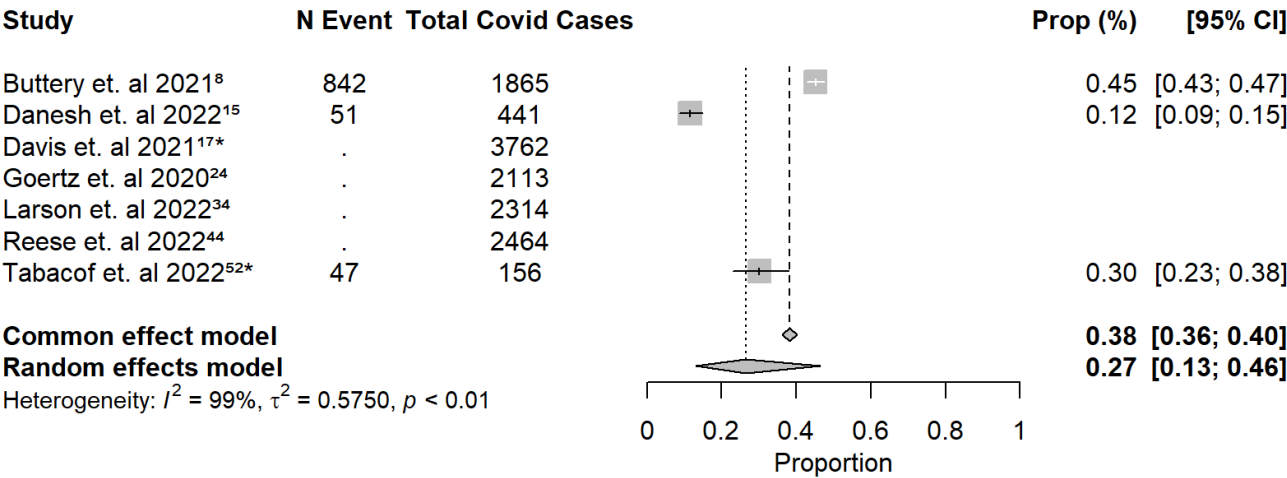
# Mental Health Concerns:

## Analysis 1 Mental Health Concerns: Survey



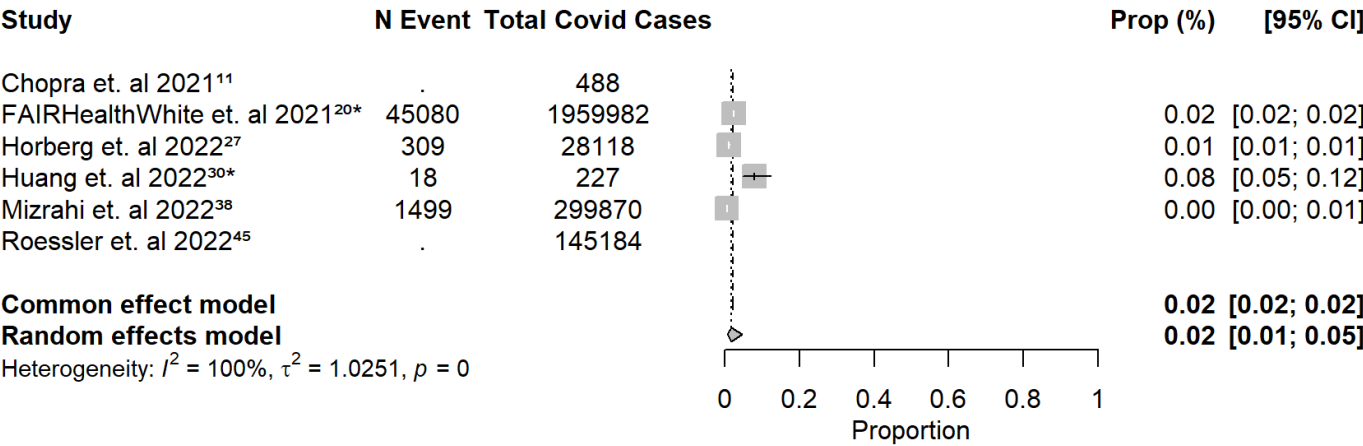
\* indicates value estimated from a figure

Analysis 1  
Mental Health Concerns: Long COVID



\* indicates value estimated from a figure

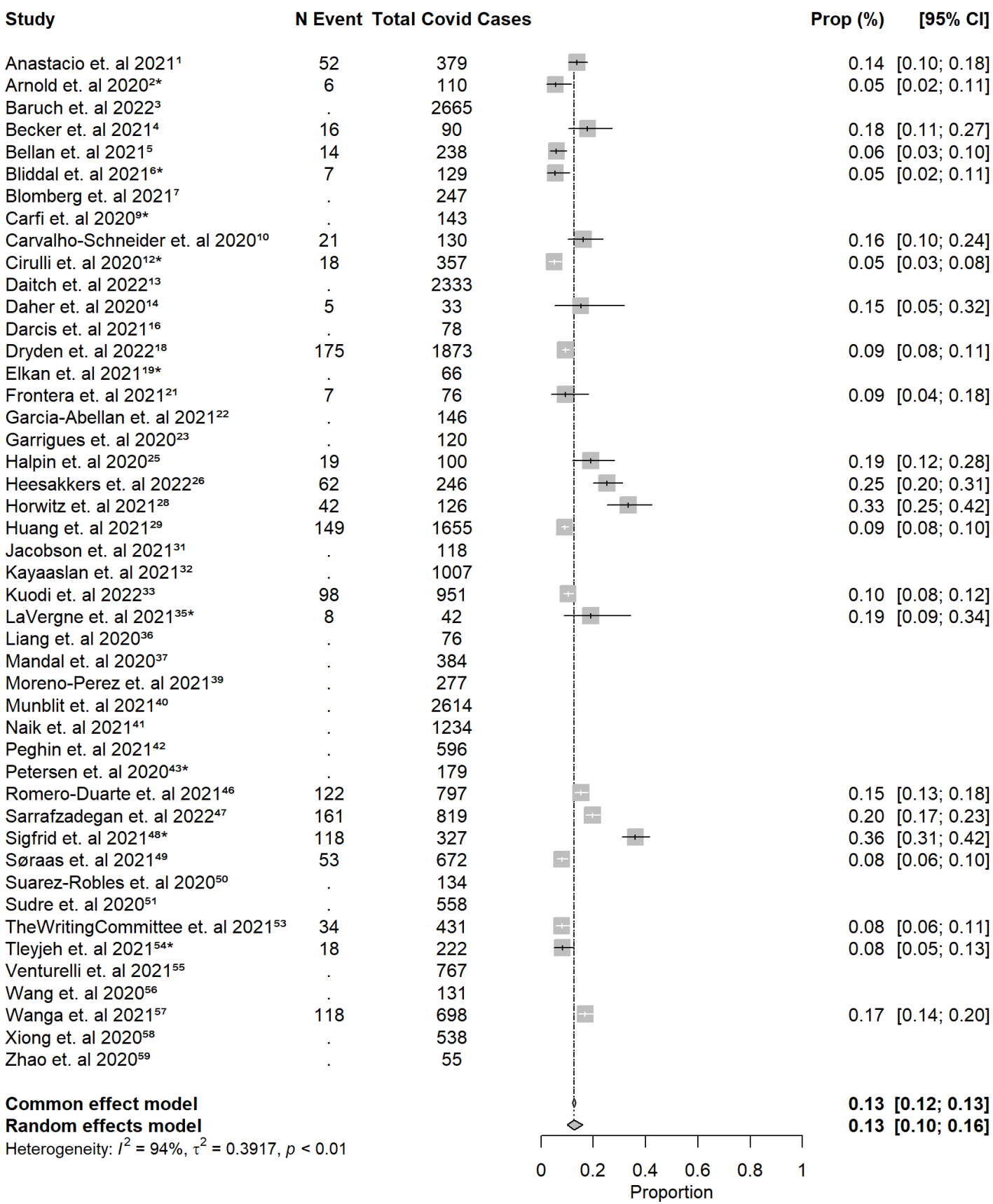
Analysis 1  
Mental Health Concerns: EHR



\* indicates value estimated from a figure

Joint Muscle Pain:

Analysis 1  
Joint Muscle Pain: Survey



\* indicates value estimated from a figure

Analysis 1

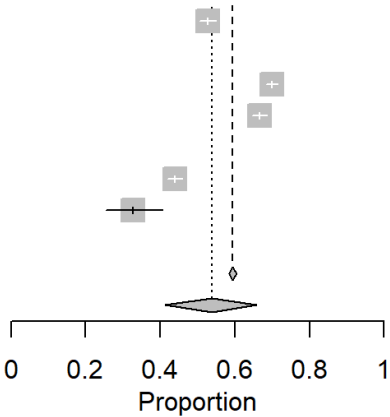
Joint Muscle Pain: Long COVID

Study	N Event	Total Covid Cases	Prop (%)	[95% CI]
Buttery et. al 2021 <sup>8</sup>	984	1865	0.53	[0.50; 0.55]
Danesh et. al 2022 <sup>15</sup>	.	441		
Davis et. al 2021 <sup>17*</sup>	2633	3762	0.70	[0.68; 0.71]
Goertz et. al 2020 <sup>24</sup>	1409	2113	0.67	[0.65; 0.69]
Larson et. al 2022 <sup>34</sup>	.	2314		
Reese et. al 2022 <sup>44</sup>	1082	2464	0.44	[0.42; 0.46]
Tabacof et. al 2022 <sup>52*</sup>	51	156	0.33	[0.25; 0.41]

Common effect model

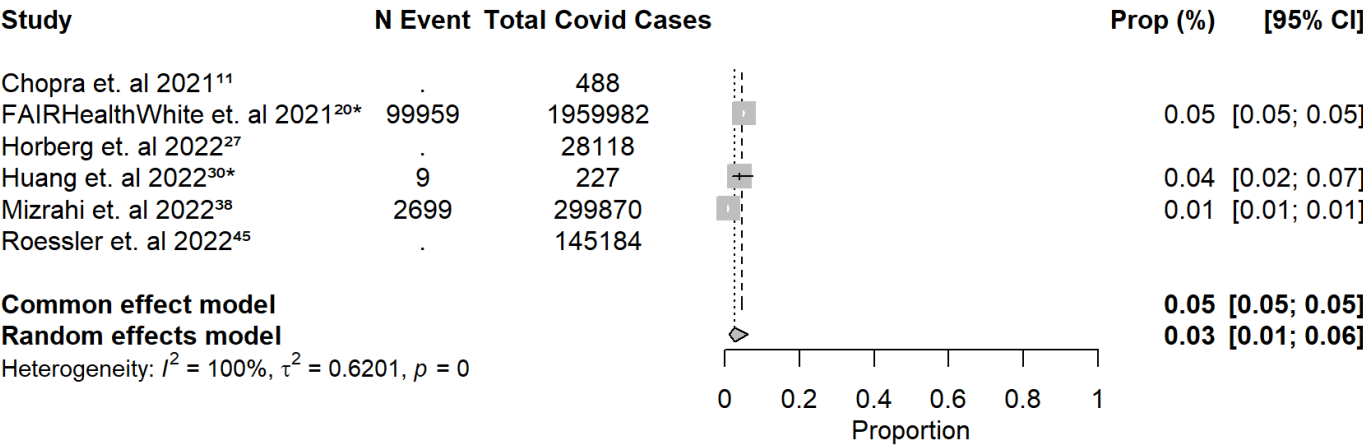
Random effects model

Heterogeneity:  $I^2 = 99\%$ ,  $\tau^2 = 0.3221$ ,  $p < 0.01$



\* indicates value estimated from a figure

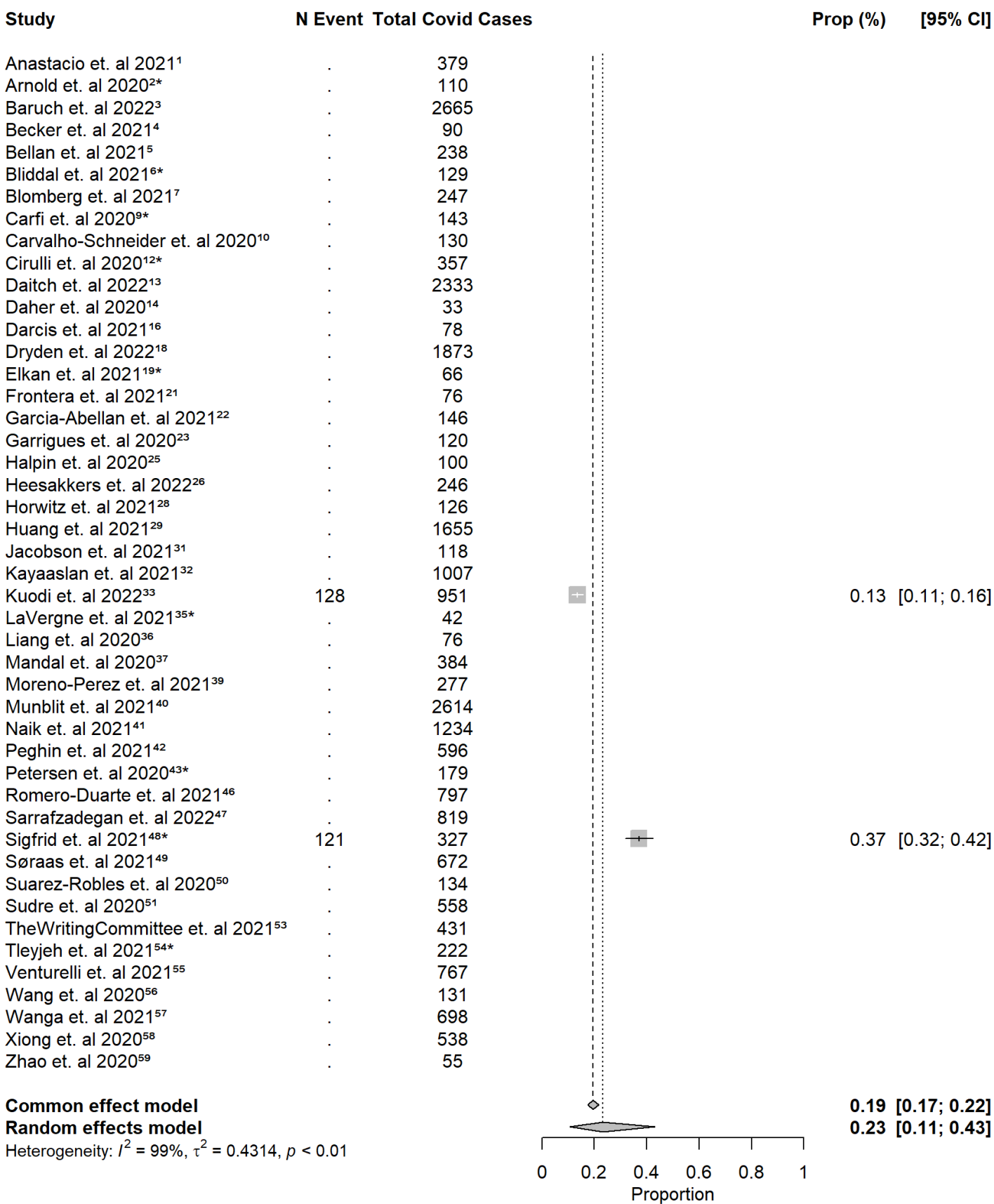
Analysis 1  
Joint Muscle Pain: EHR



\* indicates value estimated from a figure

# Weakness In Arms Or Legs:

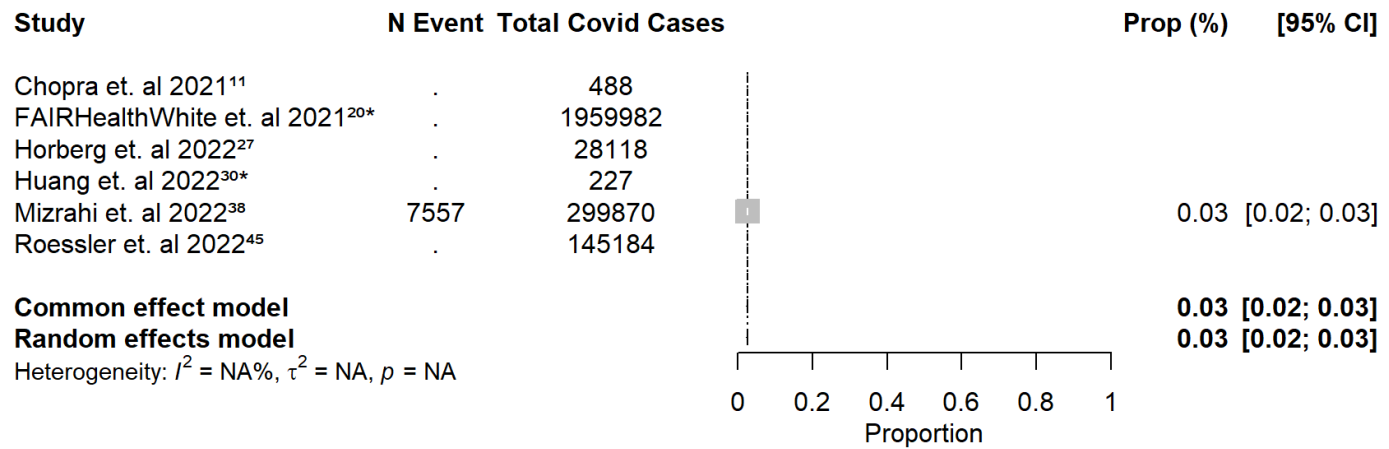
## Analysis 1 Weakness In Arms Or Legs: Survey



\* indicates value estimated from a figure



Analysis 1  
Weakness In Arms Or Legs: EHR

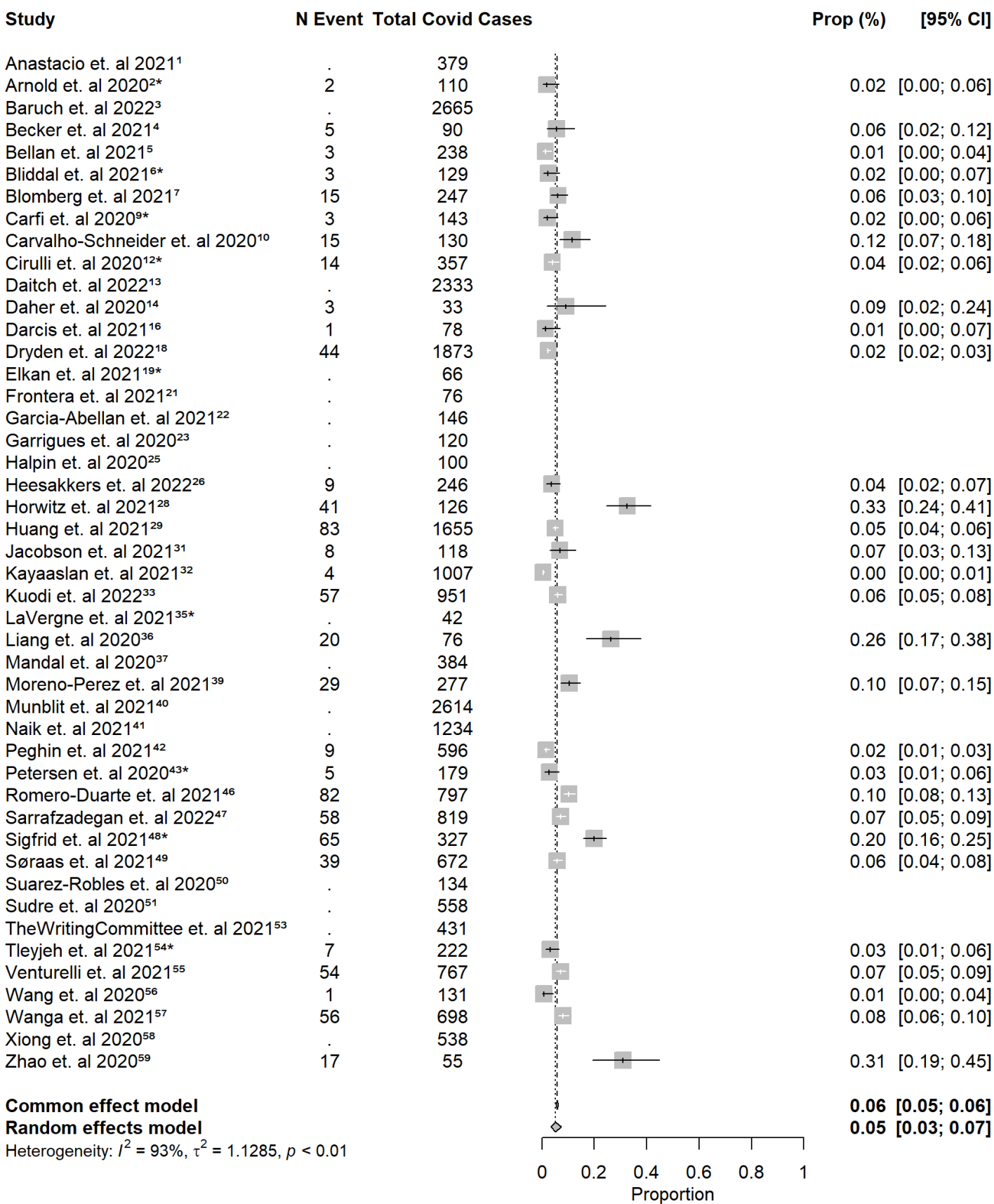


\* indicates value estimated from a figure

# Gi Symptoms Including Abdominal Pain:

## Analysis 1

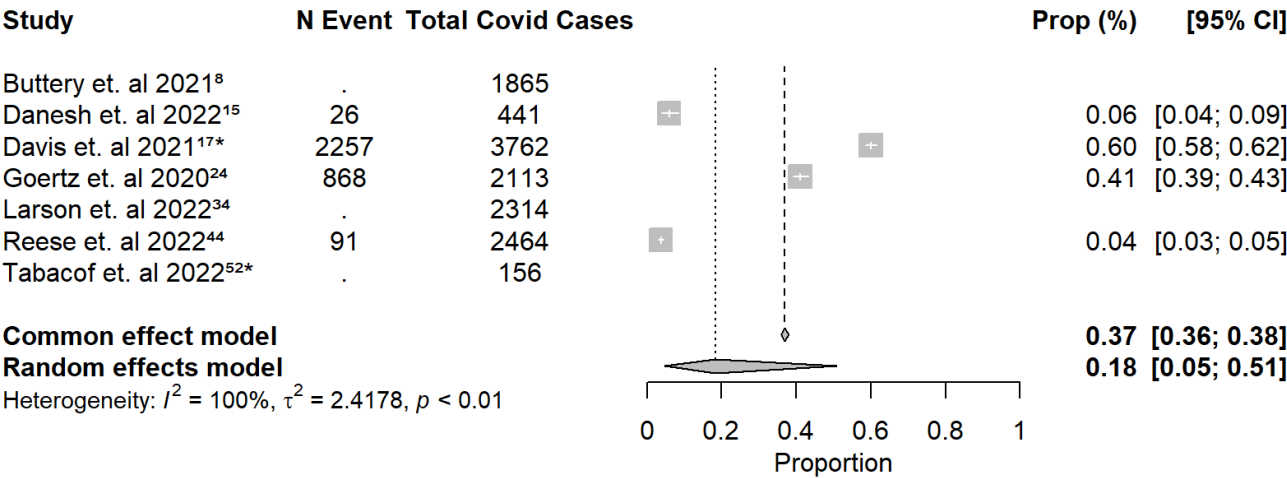
### Gi Symptoms Including Abdominal Pain: Survey



\* indicates value estimated from a figure

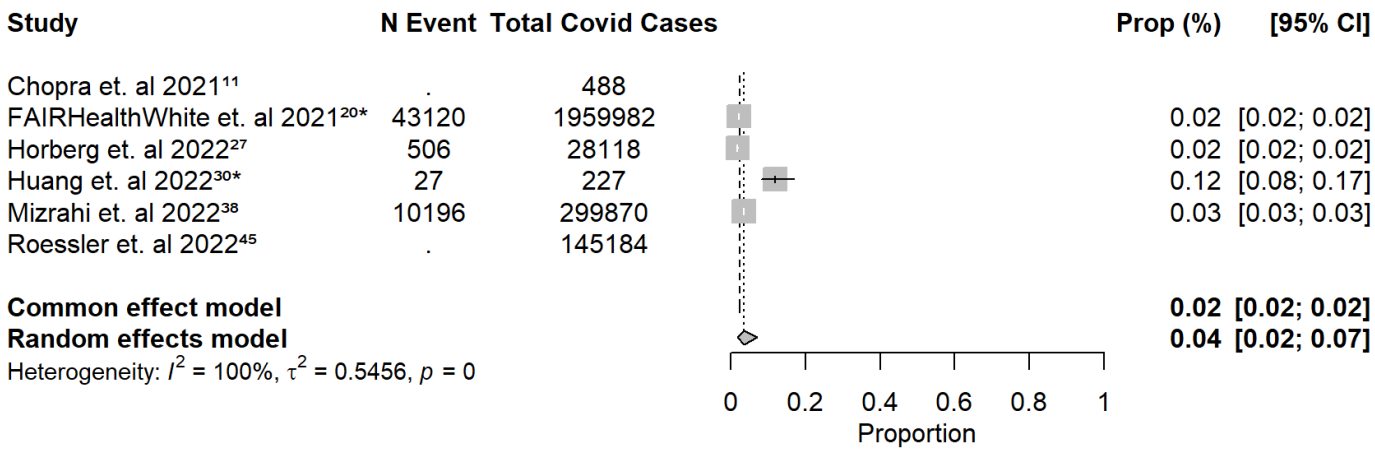
Analysis 1

Gi Symptoms Including Abdominal Pain: Long COVID



\* indicates value estimated from a figure

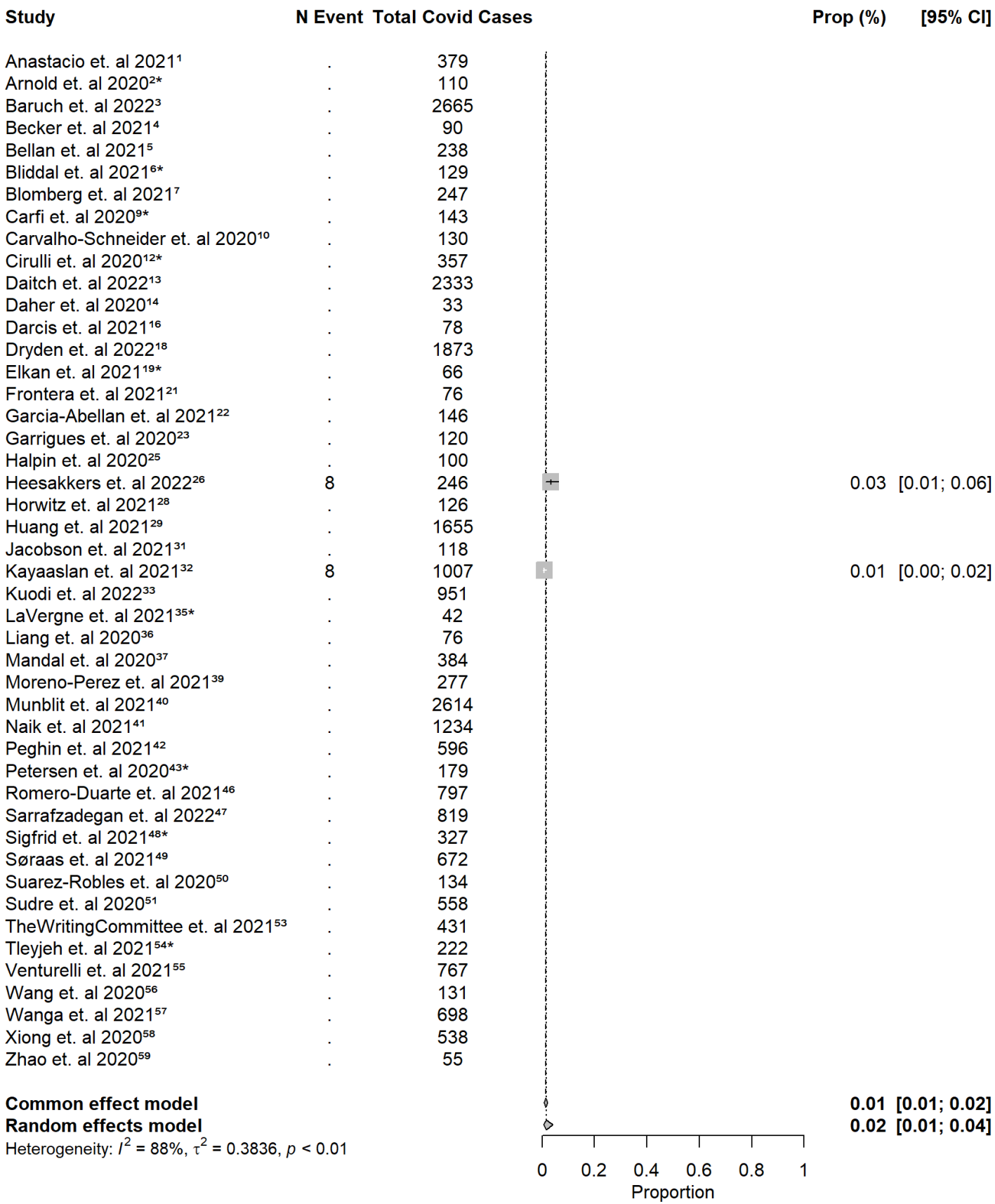
Analysis 1  
Gi Symptoms Including Abdominal Pain: EHR



\* indicates value estimated from a figure

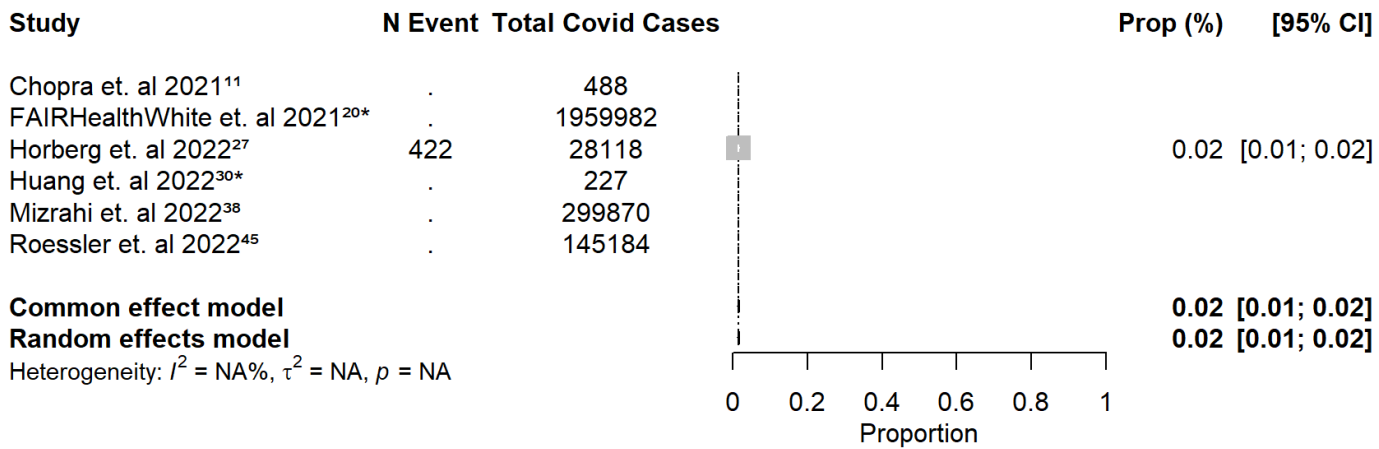
# Urinary Symptoms:

## Analysis 1 Urinary Symptoms: Survey



\* indicates value estimated from a figure

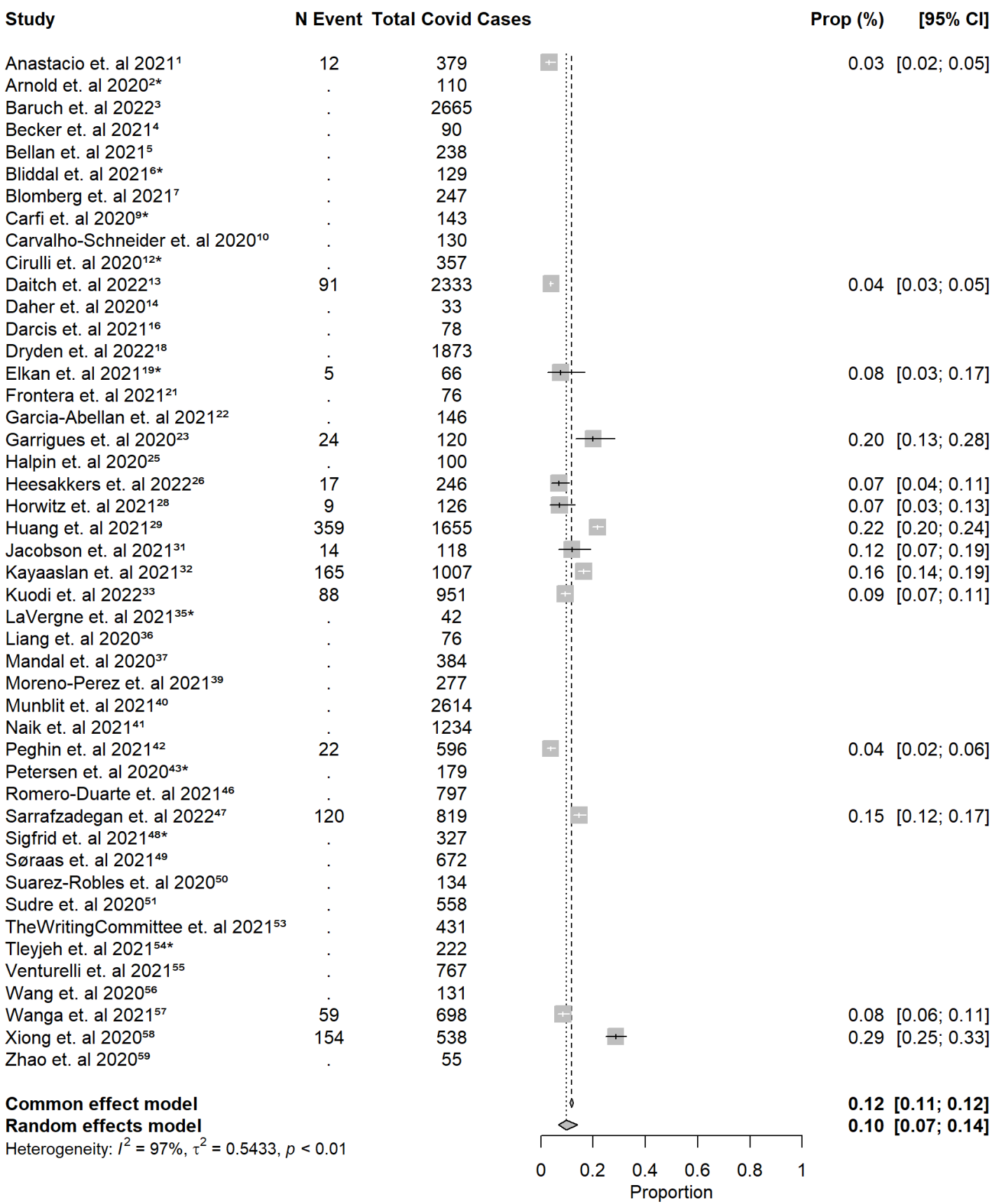
Analysis 1  
Urinary Symptoms: EHR



\* indicates value estimated from a figure

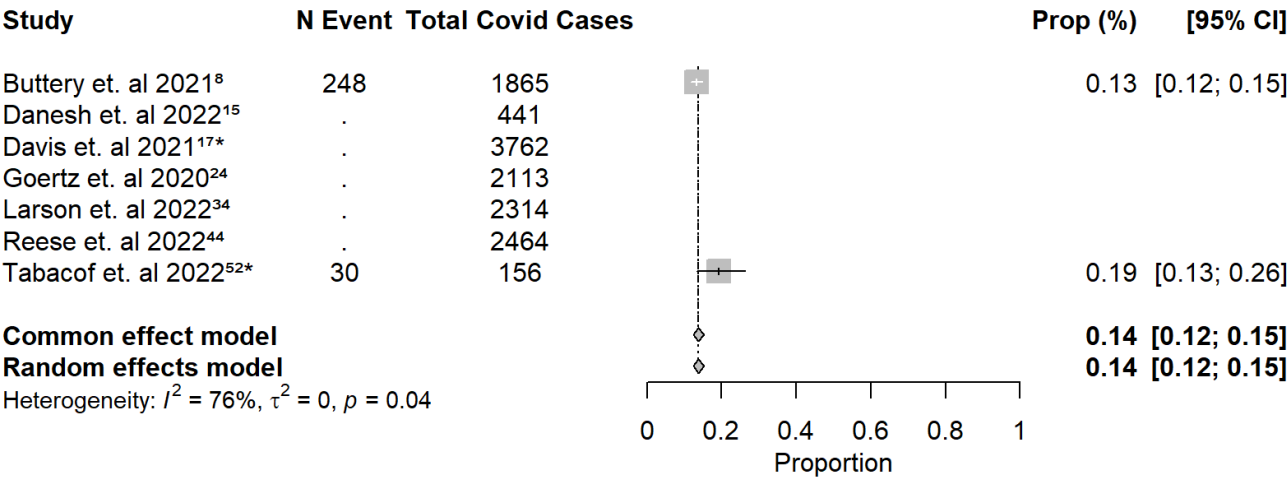
Hair Loss:

Analysis 1  
Hair Loss: Survey



\* indicates value estimated from a figure

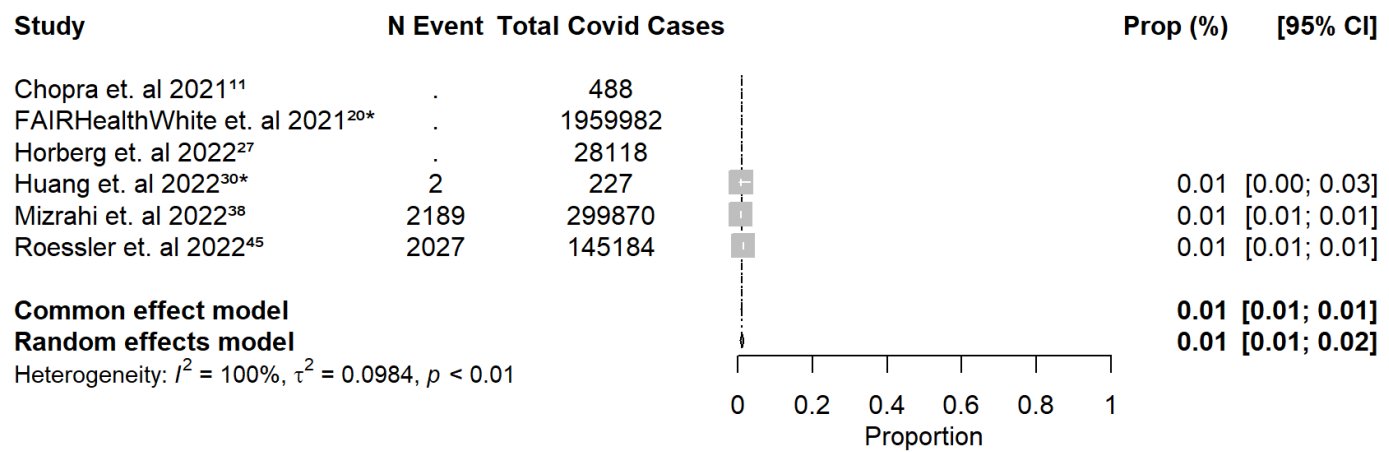
Analysis 1  
Hair Loss: Long COVID



\* indicates value estimated from a figure



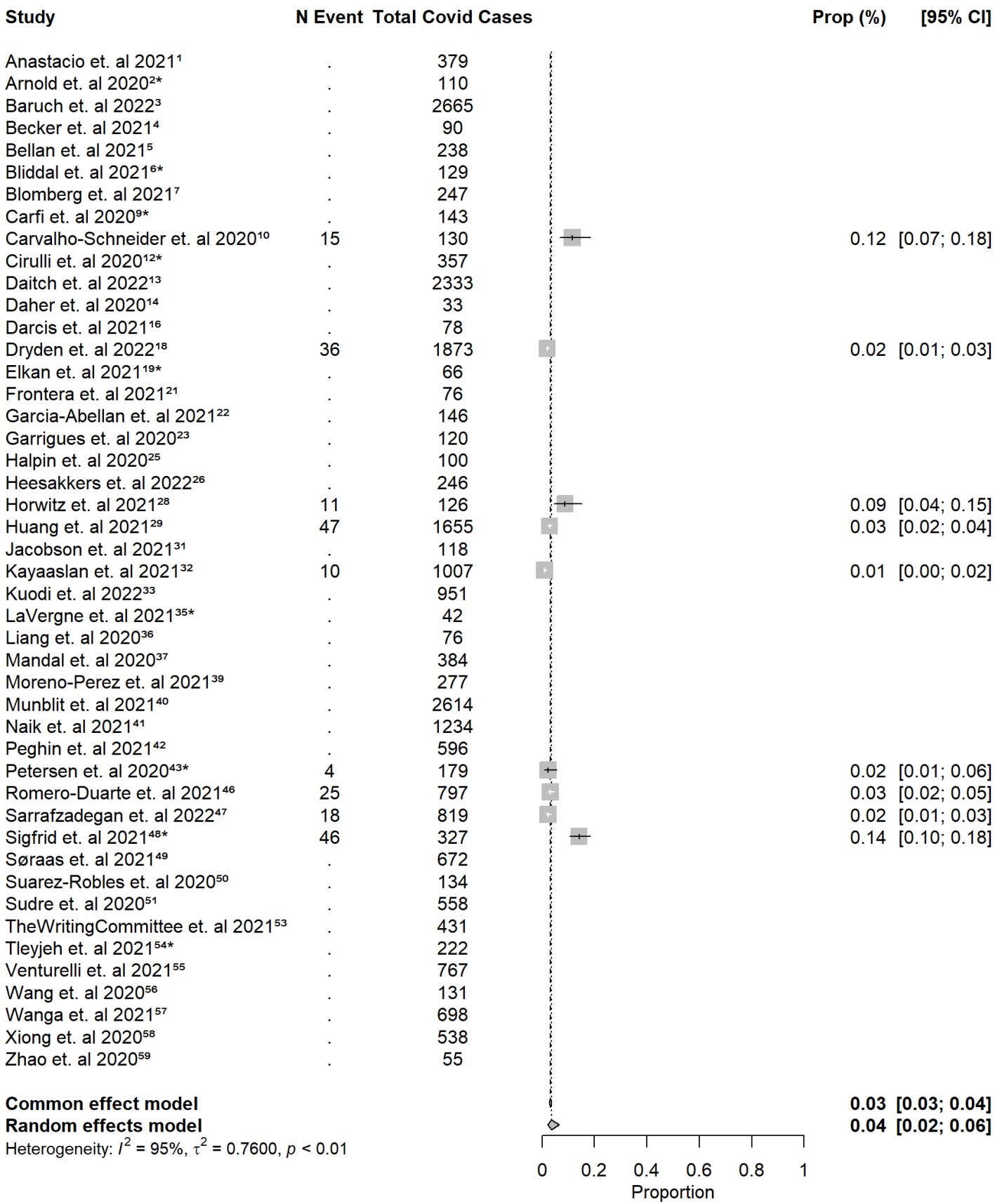
Analysis 1  
Hair Loss: EHR



\* indicates value estimated from a figure

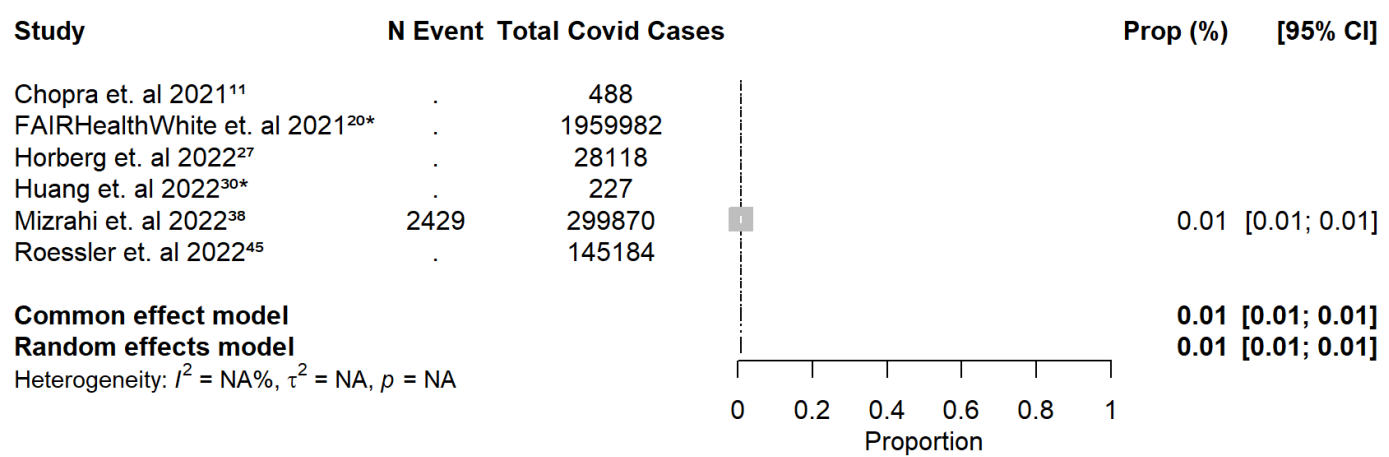
Skin Rash:

Analysis 1  
Skin Rash: Survey



\* indicates value estimated from a figure

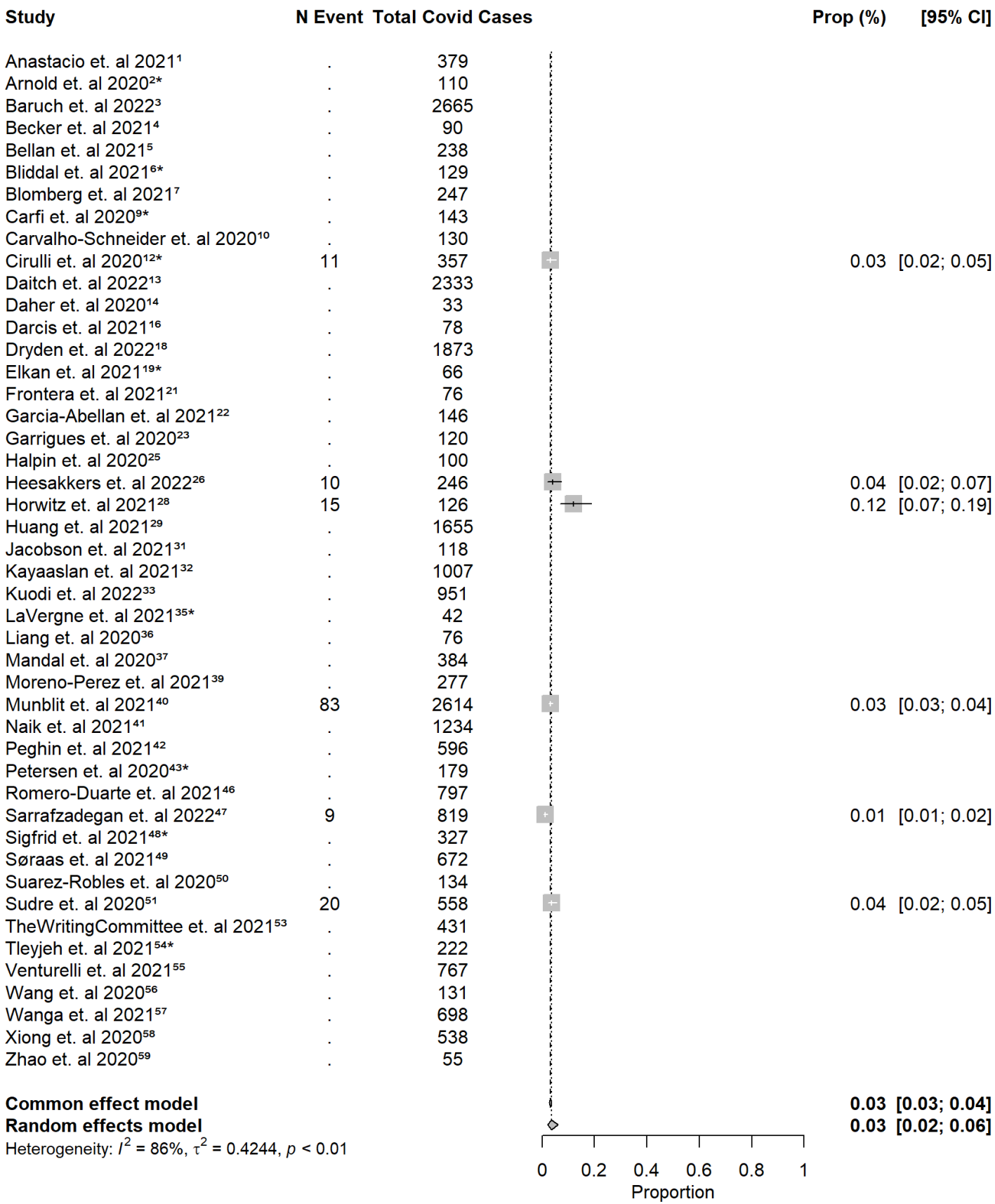
Analysis 1  
Skin Rash: EHR



\* indicates value estimated from a figure

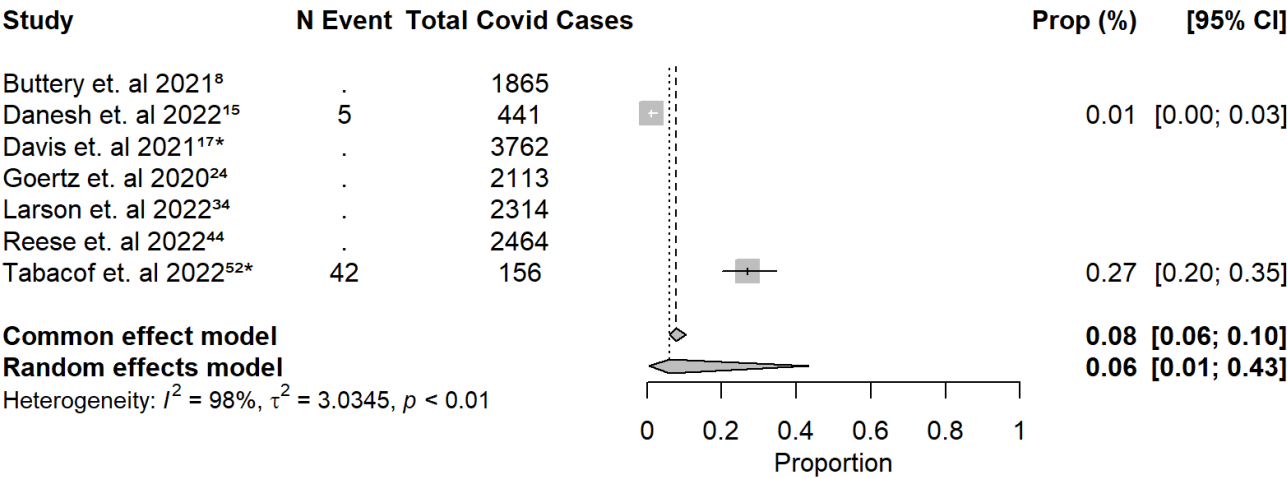
# Hearing Problems:

## Analysis 1 Hearing Problems: Survey



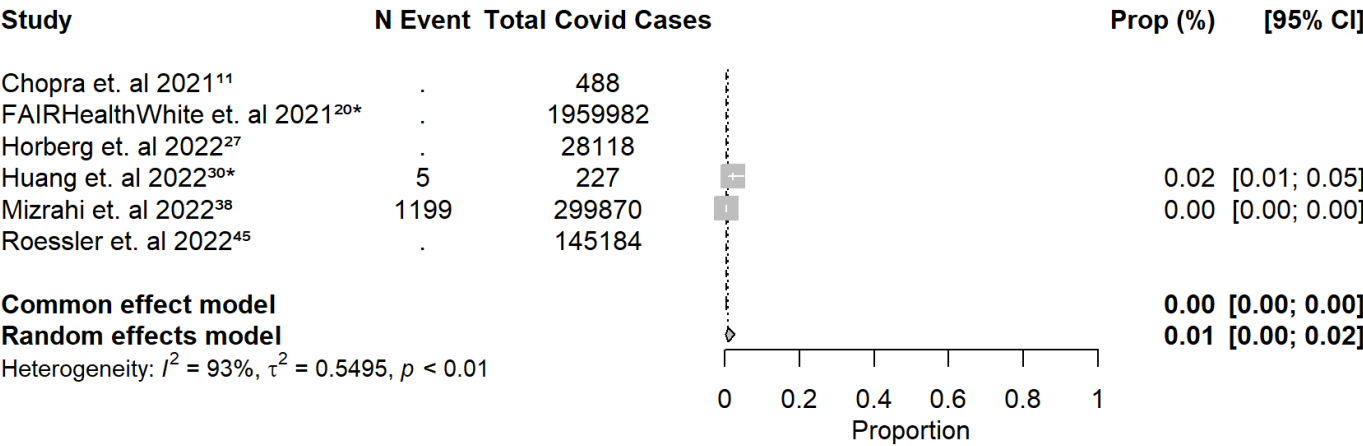
\* indicates value estimated from a figure

Analysis 1  
Hearing Problems: Long COVID



\* indicates value estimated from a figure

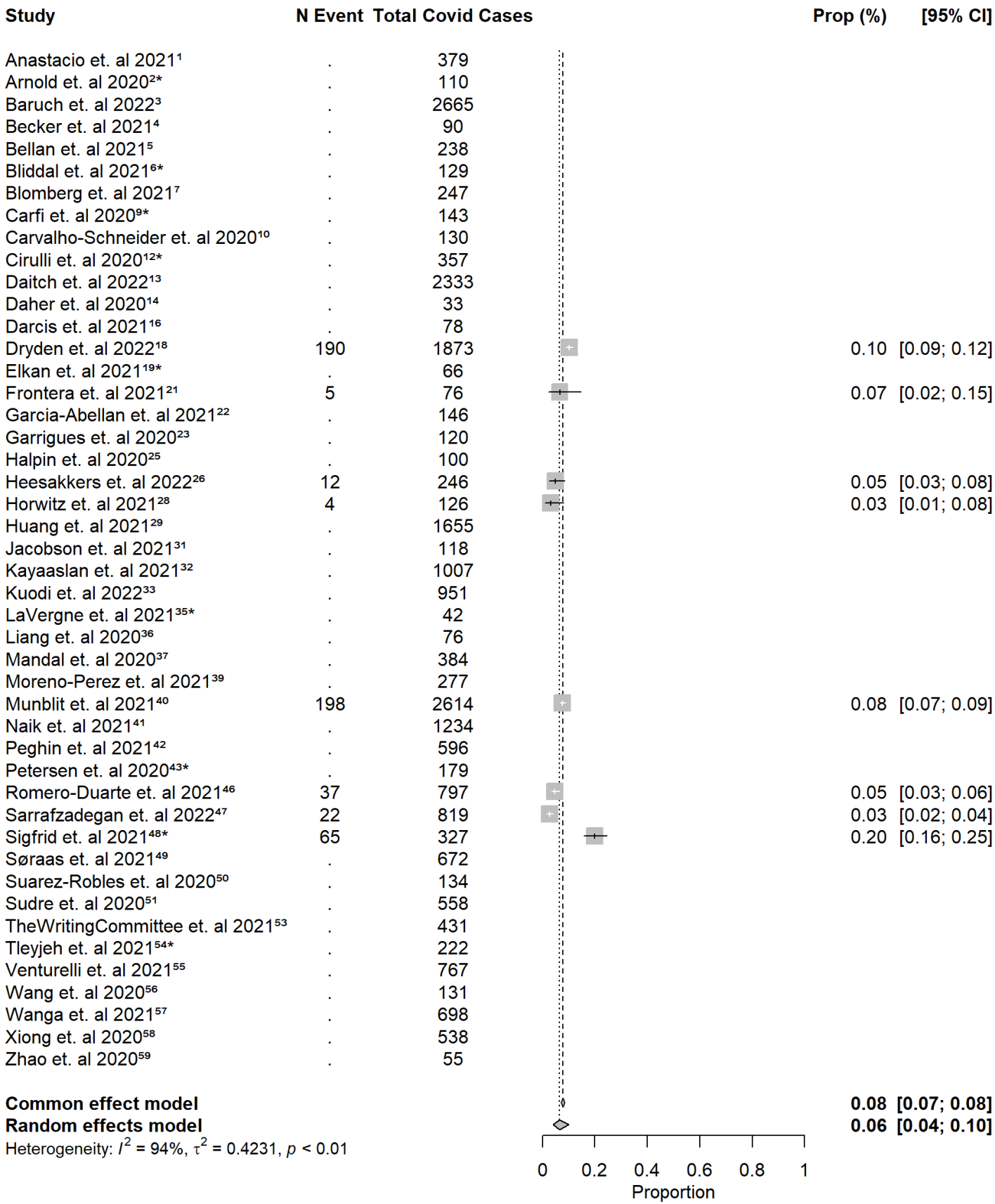
Analysis 1  
Hearing Problems: EHR



\* indicates value estimated from a figure

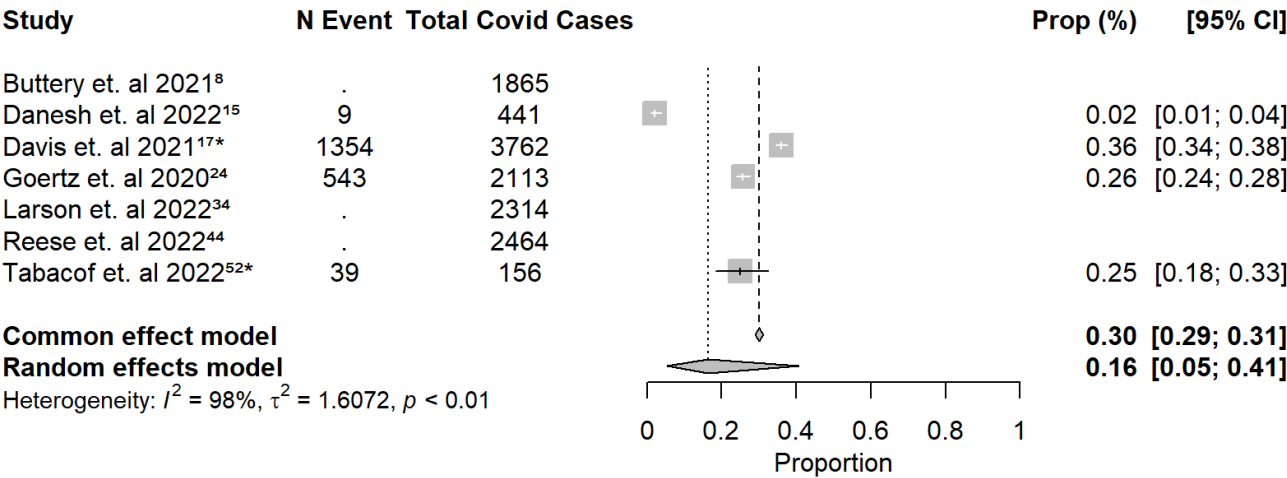
Vision Problems:

Analysis 1  
Vision Problems: Survey



\* indicates value estimated from a figure

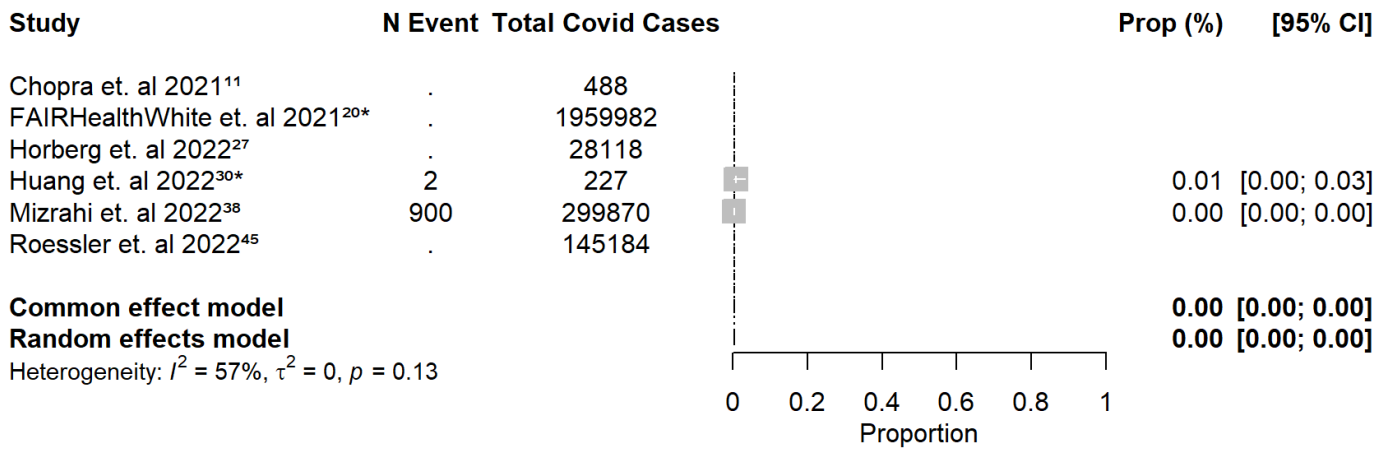
Analysis 1  
Vision Problems: Long COVID



\* indicates value estimated from a figure



Analysis 1  
Vision Problems: EHR

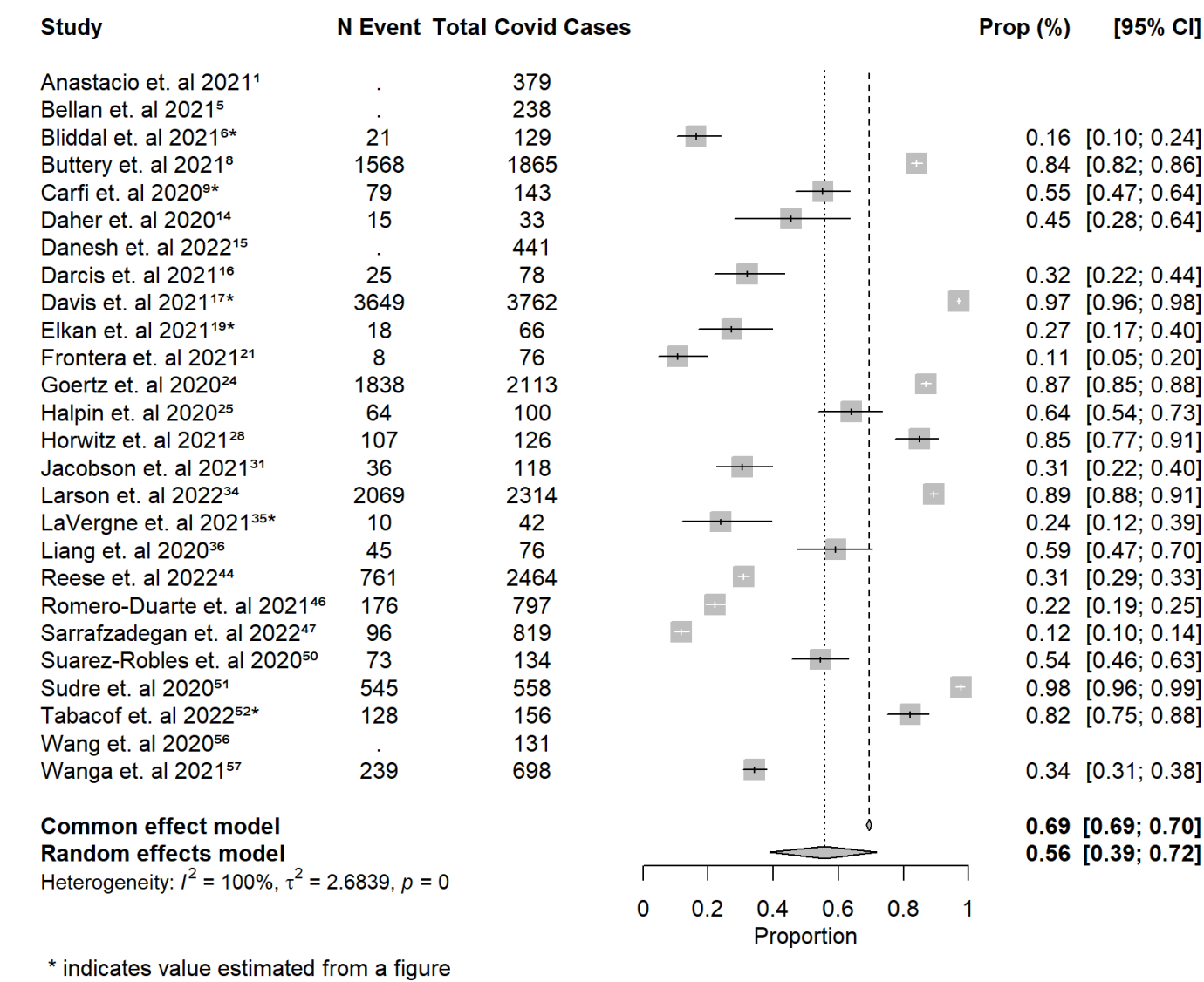


\* indicates value estimated from a figure

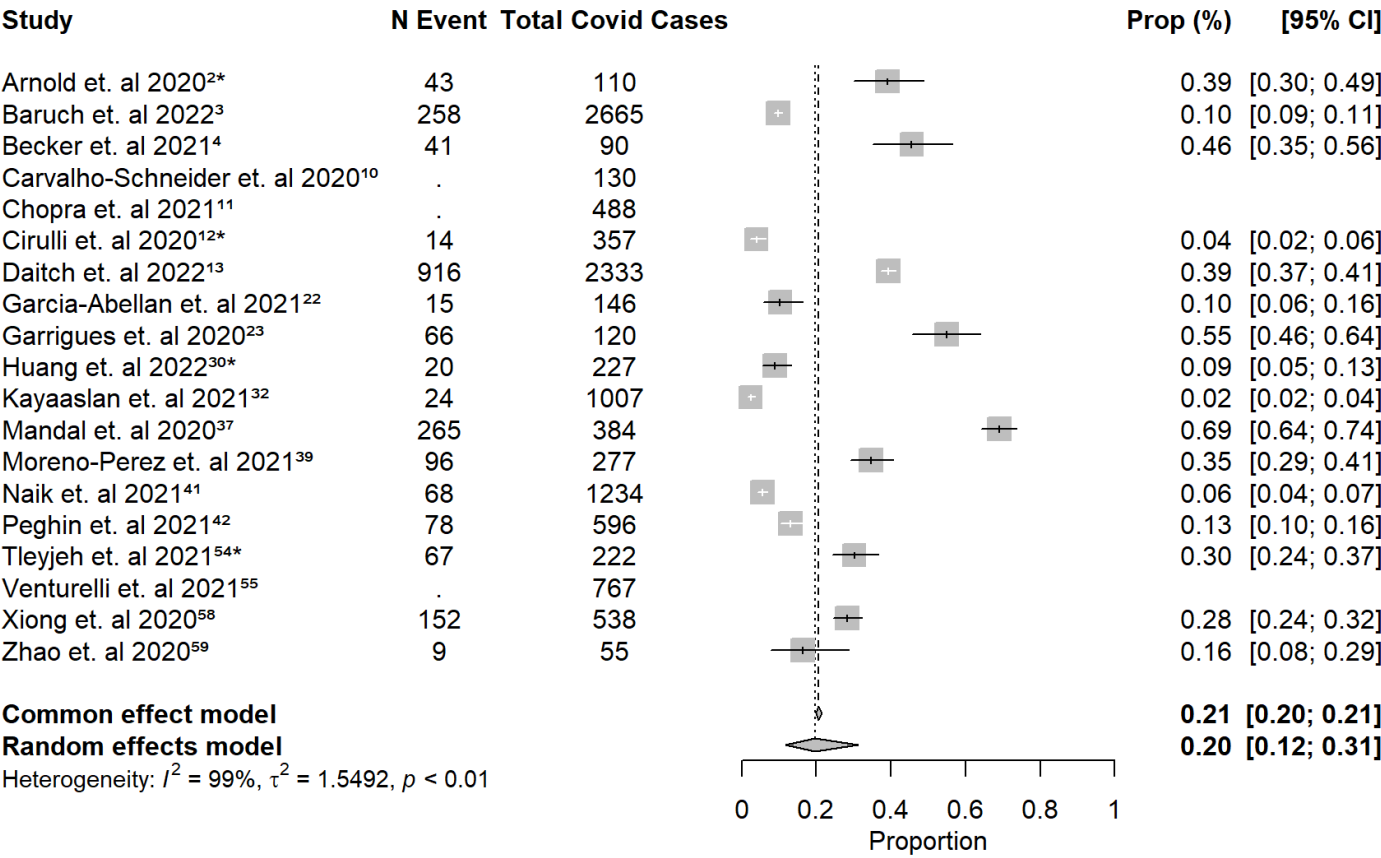
# Analysis 2, stratified by Risk of Bias High, Risk of Bias Moderate, Risk of Bias Low

Fatigue:

Analysis 2  
Fatigue: Risk of Bias High



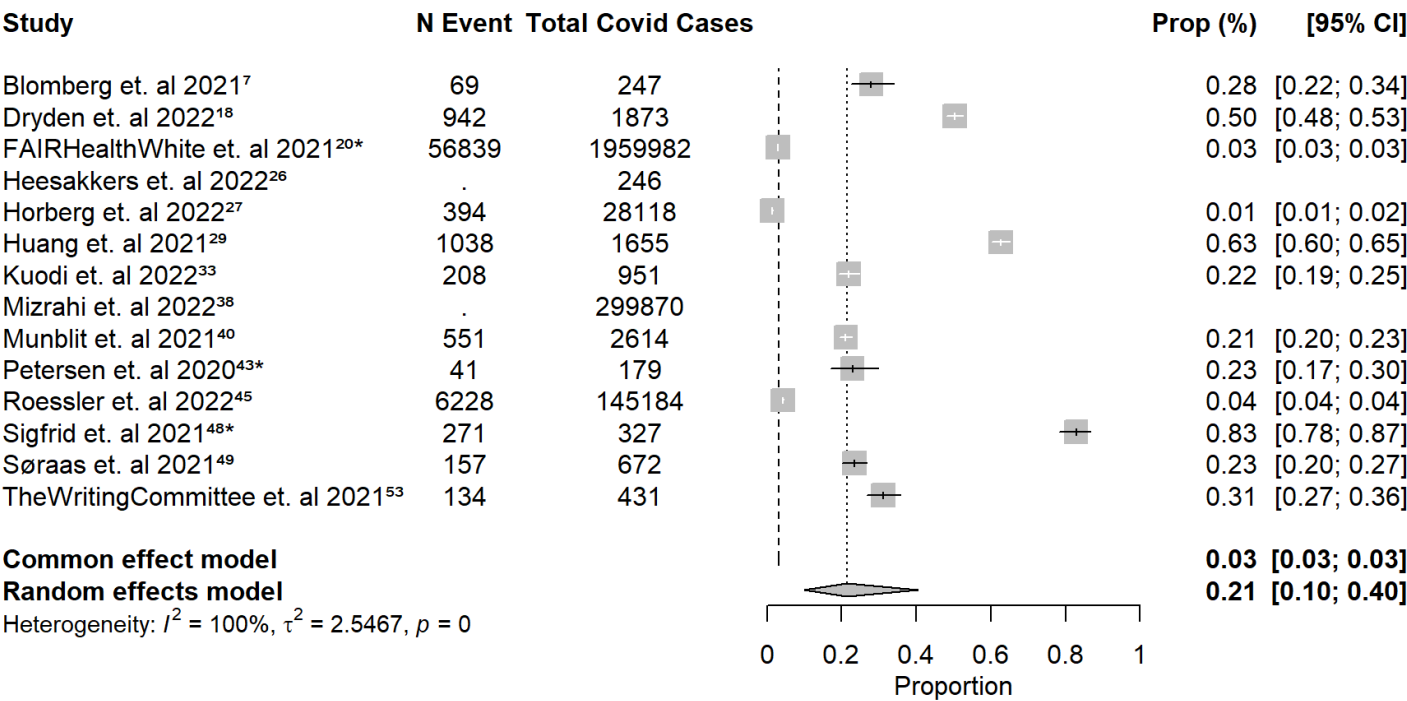
Analysis 2  
Fatigue: Risk of Bias Moderate



\* indicates value estimated from a figure

Analysis 2

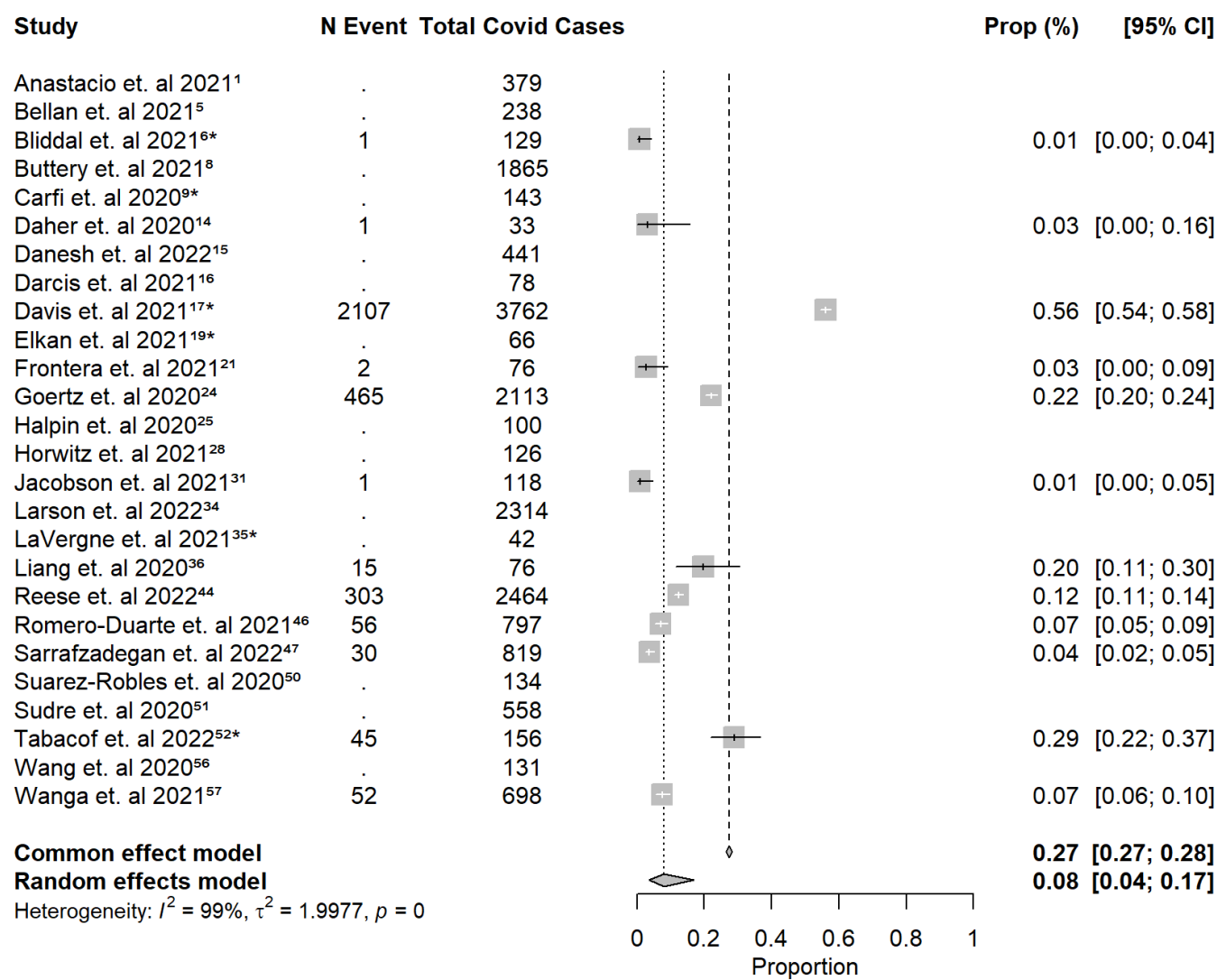
Fatigue: Risk of Bias Low



\* indicates value estimated from a figure

# Fever Chills Sweats Or Flushing:

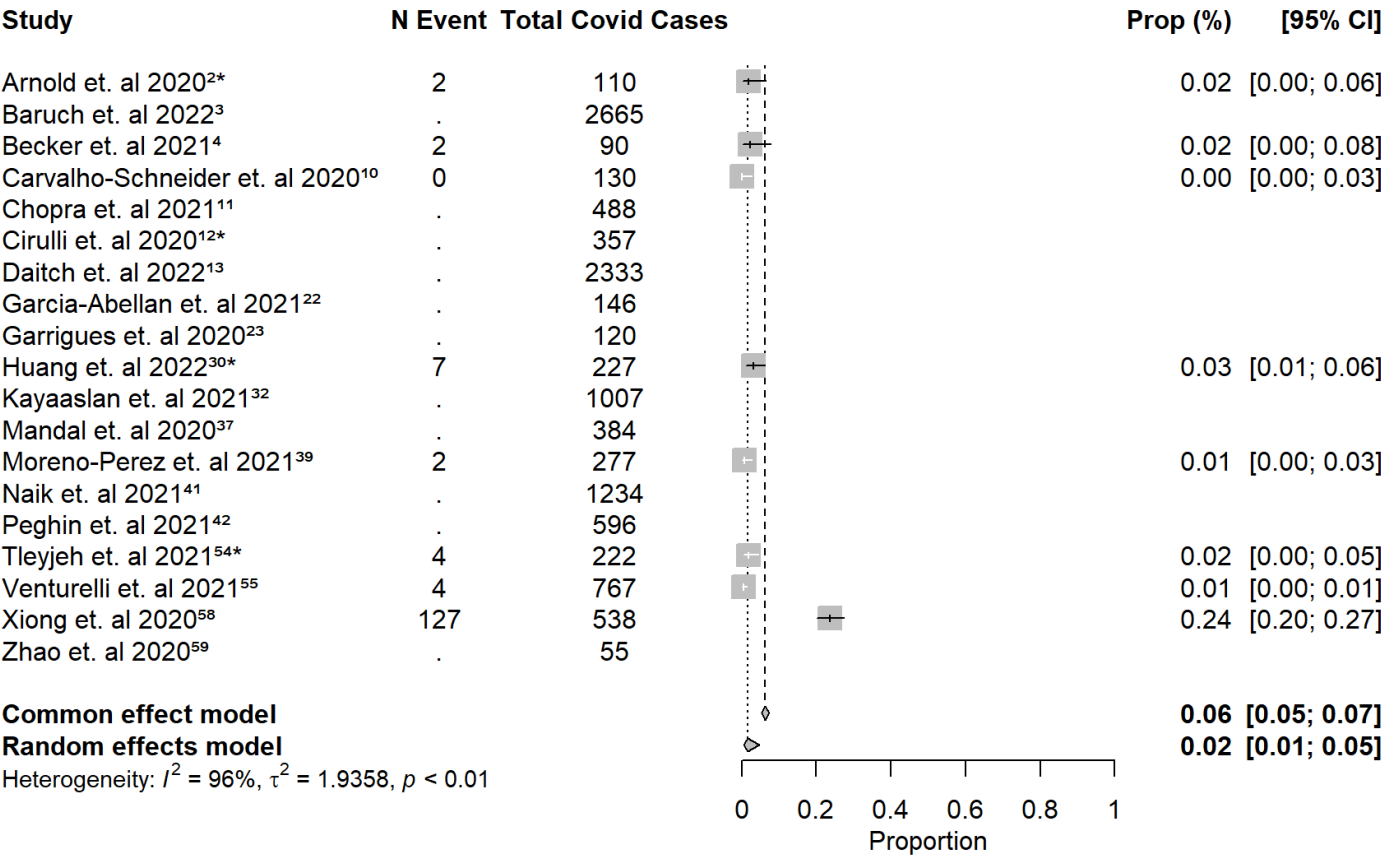
## Analysis 2 Fever Chills Sweats Or Flushing: Risk of Bias High



\* indicates value estimated from a figure

## Analysis 2

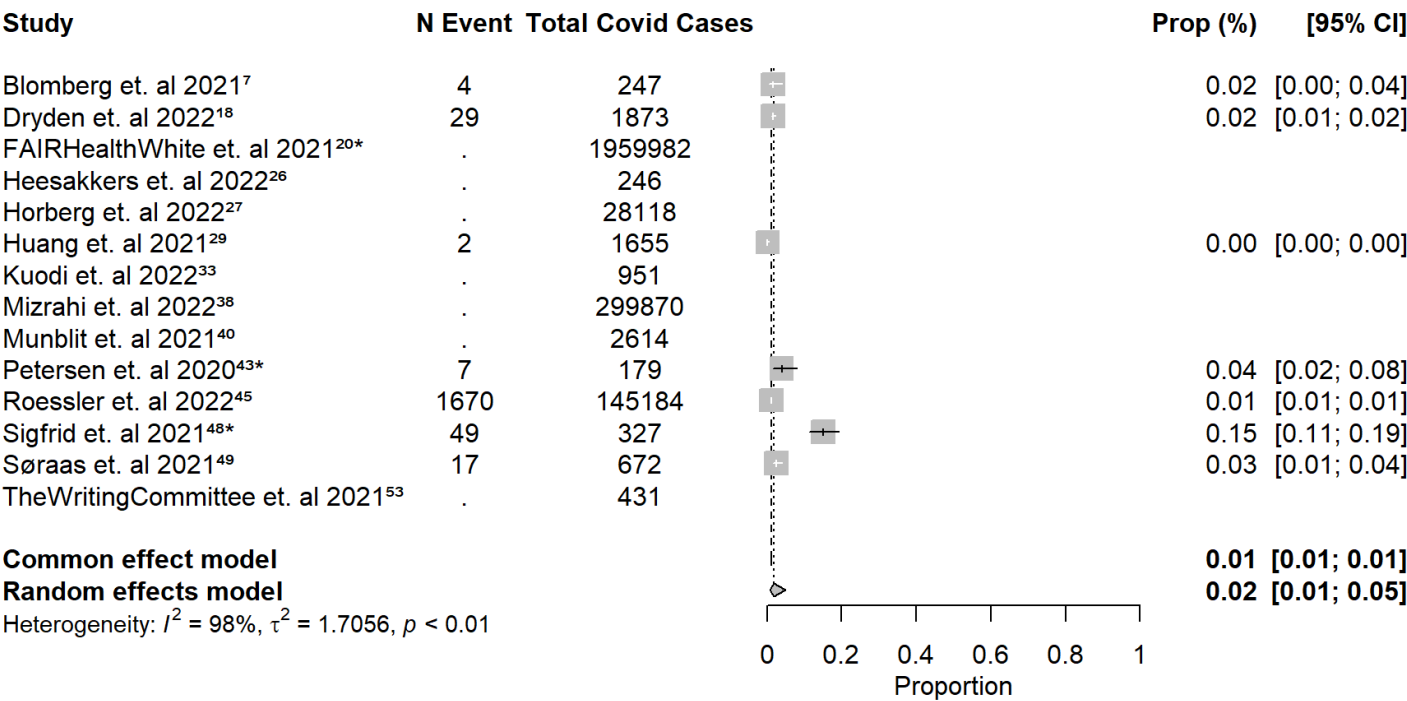
### Fever Chills Sweats Or Flushing: Risk of Bias Moderate



\* indicates value estimated from a figure

Analysis 2

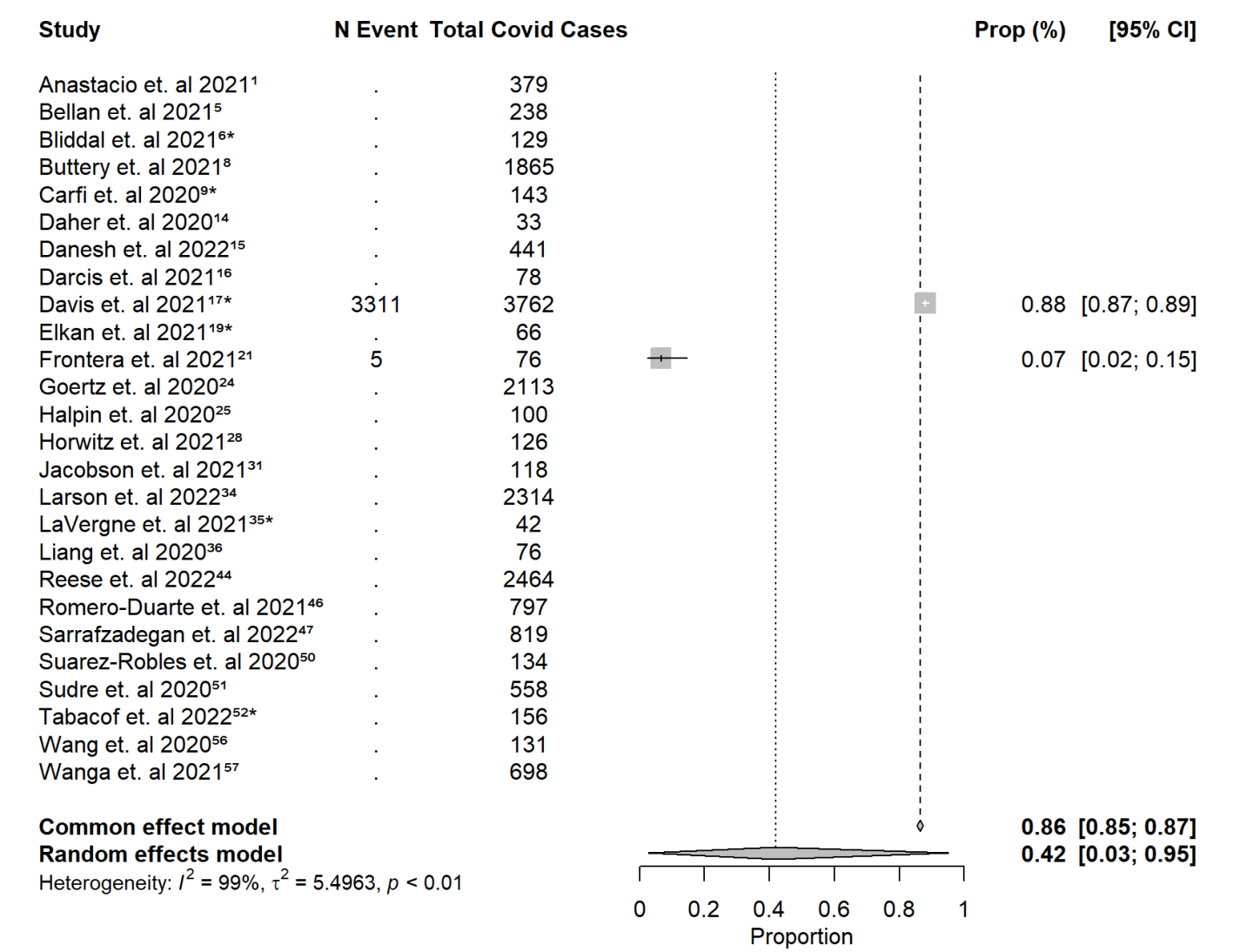
Fever Chills Sweats Or Flushing: Risk of Bias Low



\* indicates value estimated from a figure

Post Exertional Malaise:

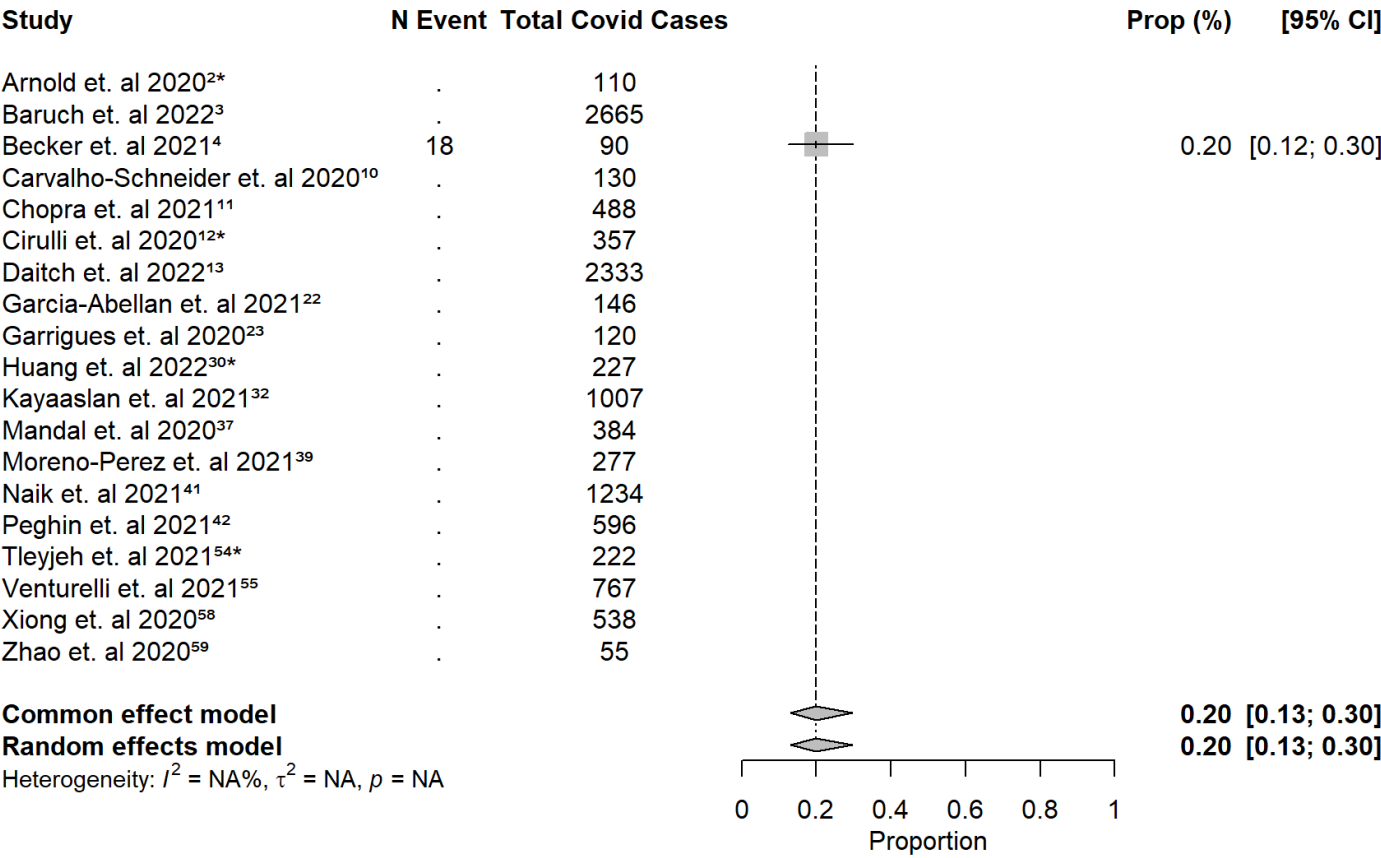
Analysis 2  
Post Exertional Malaise: Risk of Bias High





Analysis 2

Post Exertional Malaise: Risk of Bias Moderate

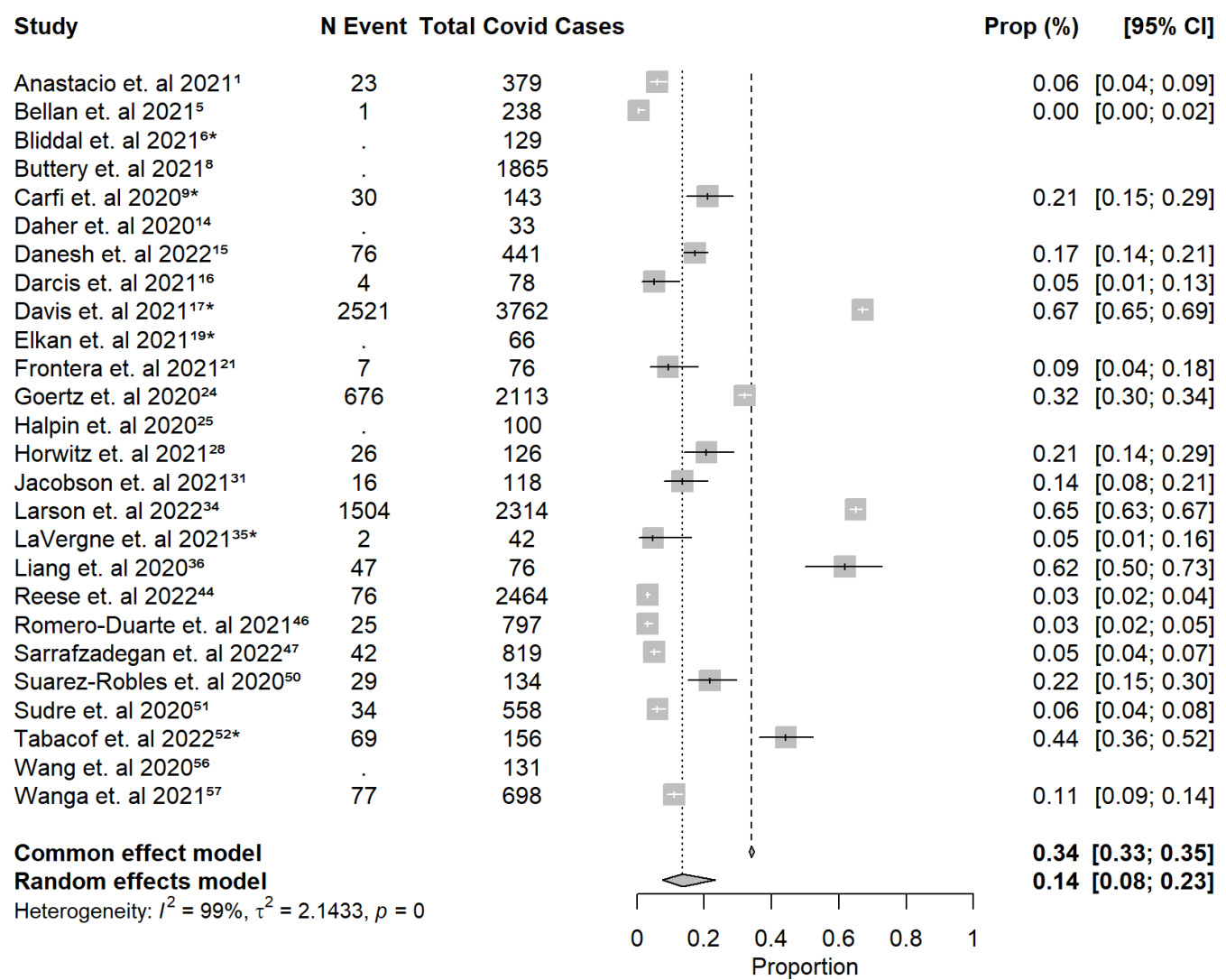


\* indicates value estimated from a figure

# Cardiac Symptoms Including Chest Pain:

## Analysis 2

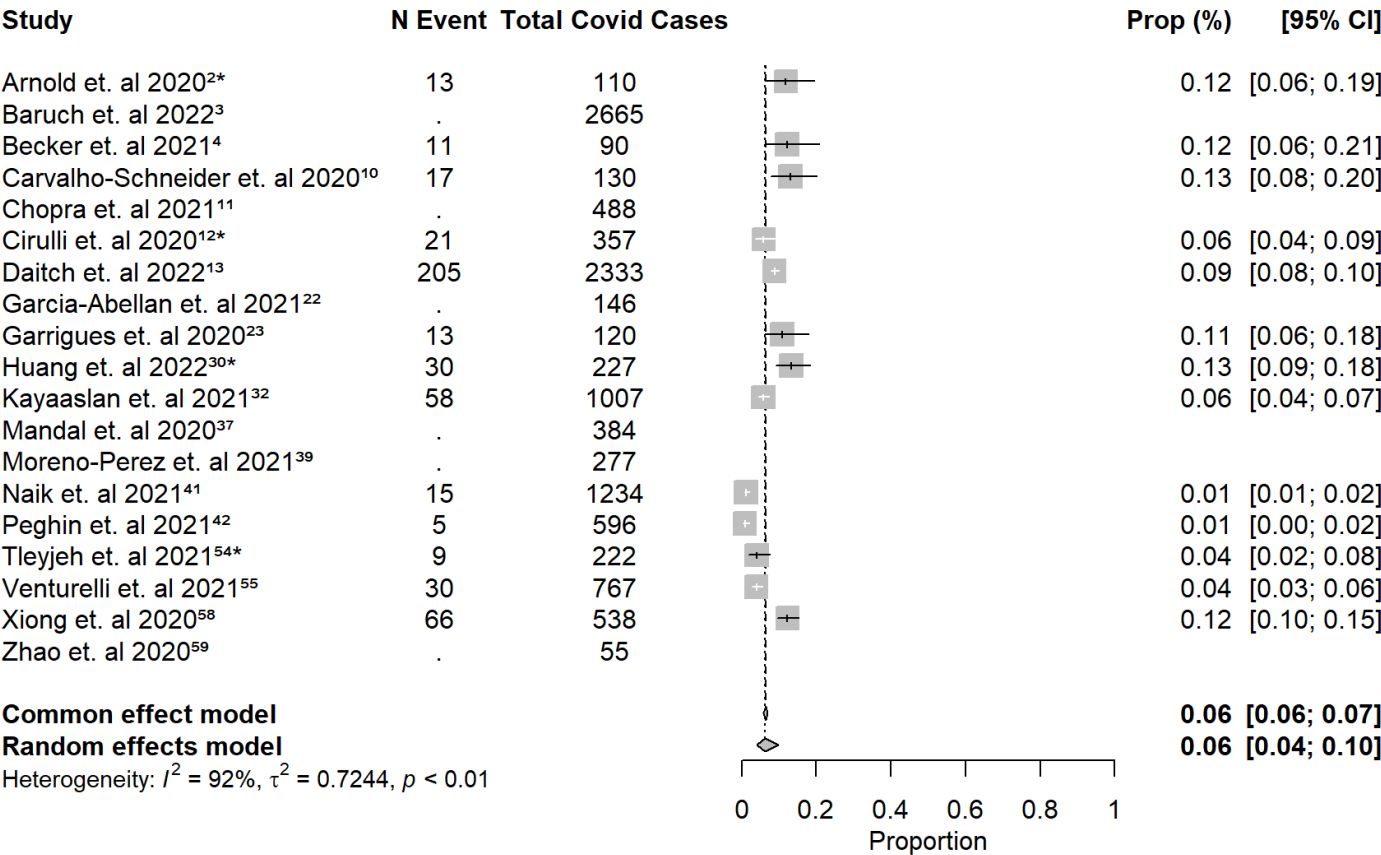
### Cardiac Symptoms Including Chest Pain: Risk of Bias High



\* indicates value estimated from a figure

Analysis 2

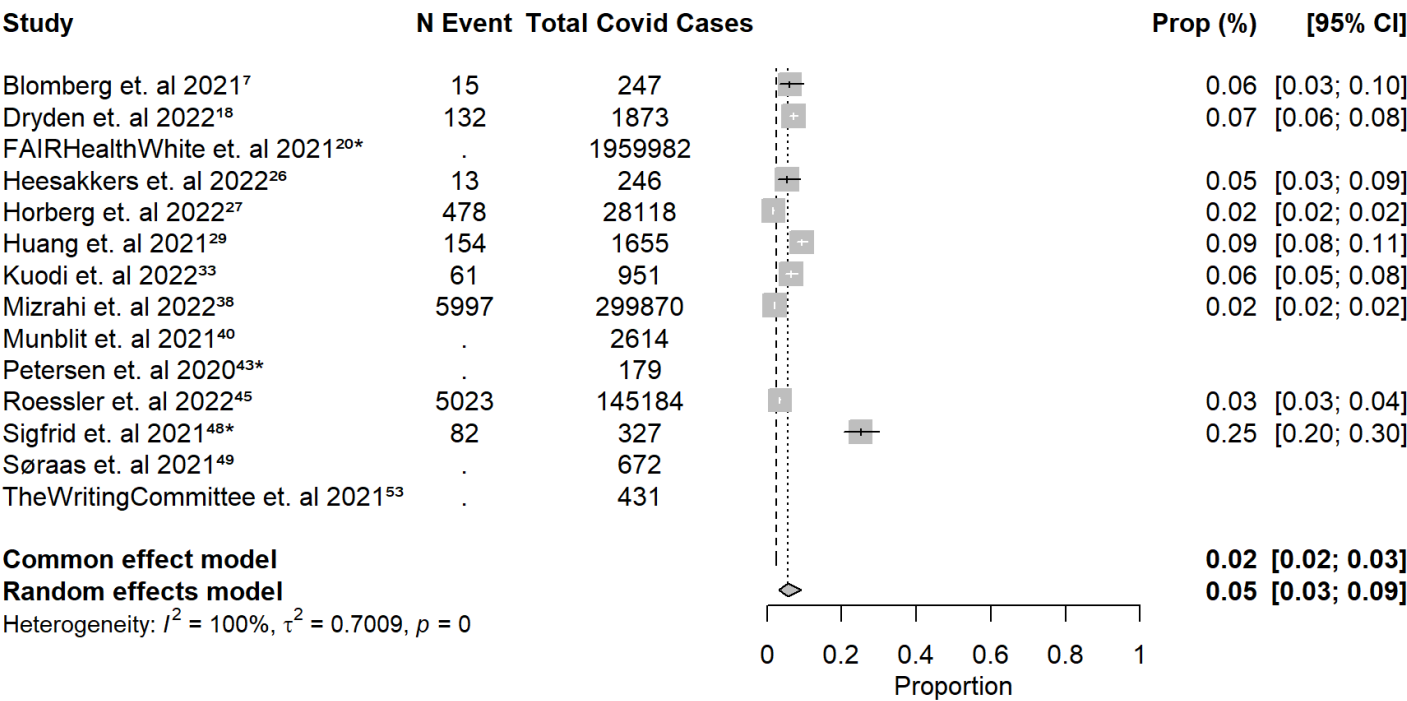
Cardiac Symptoms Including Chest Pain: Risk of Bias Moderate



\* indicates value estimated from a figure

Analysis 2

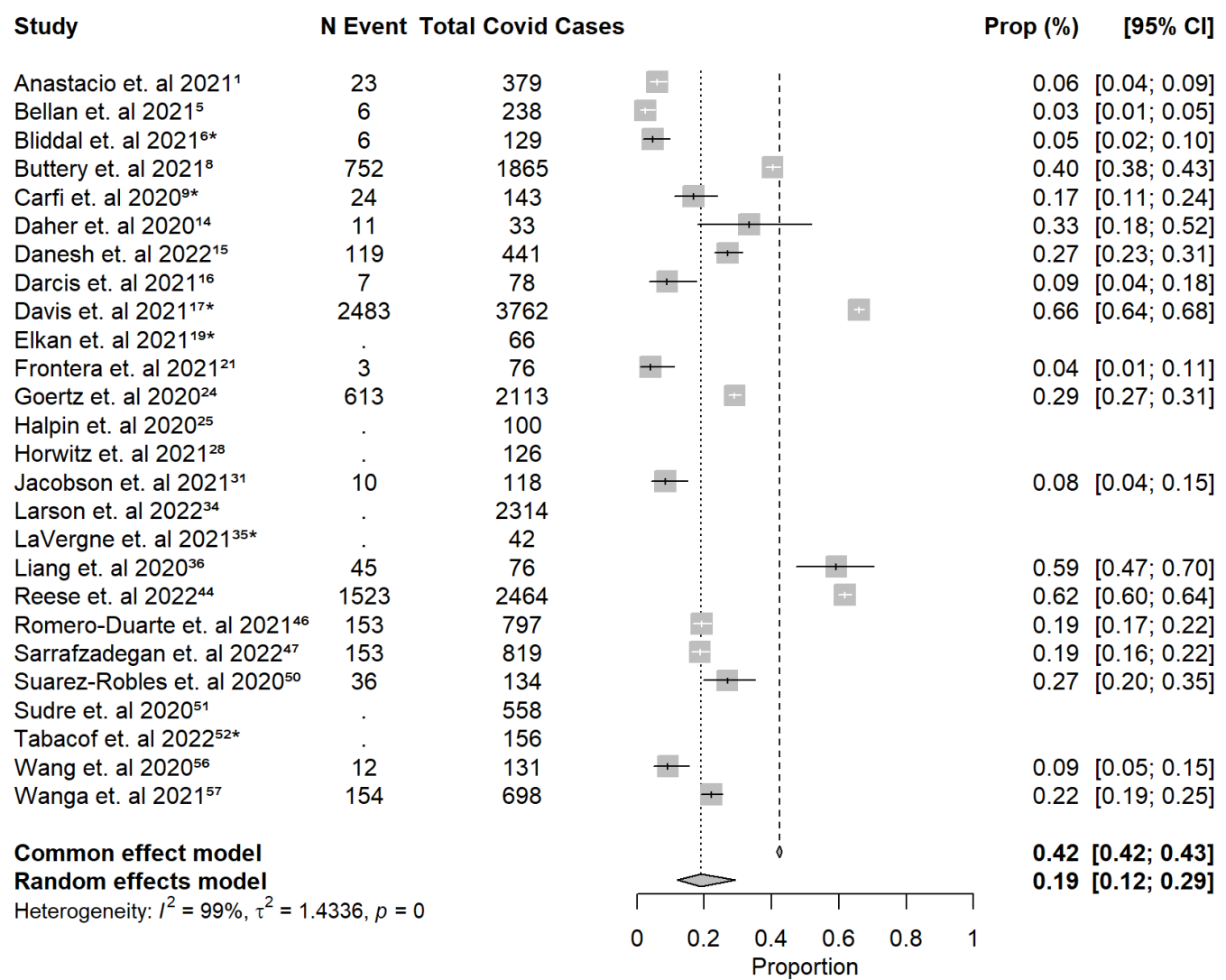
Cardiac Symptoms Including Chest Pain: Risk of Bias Low



\* indicates value estimated from a figure

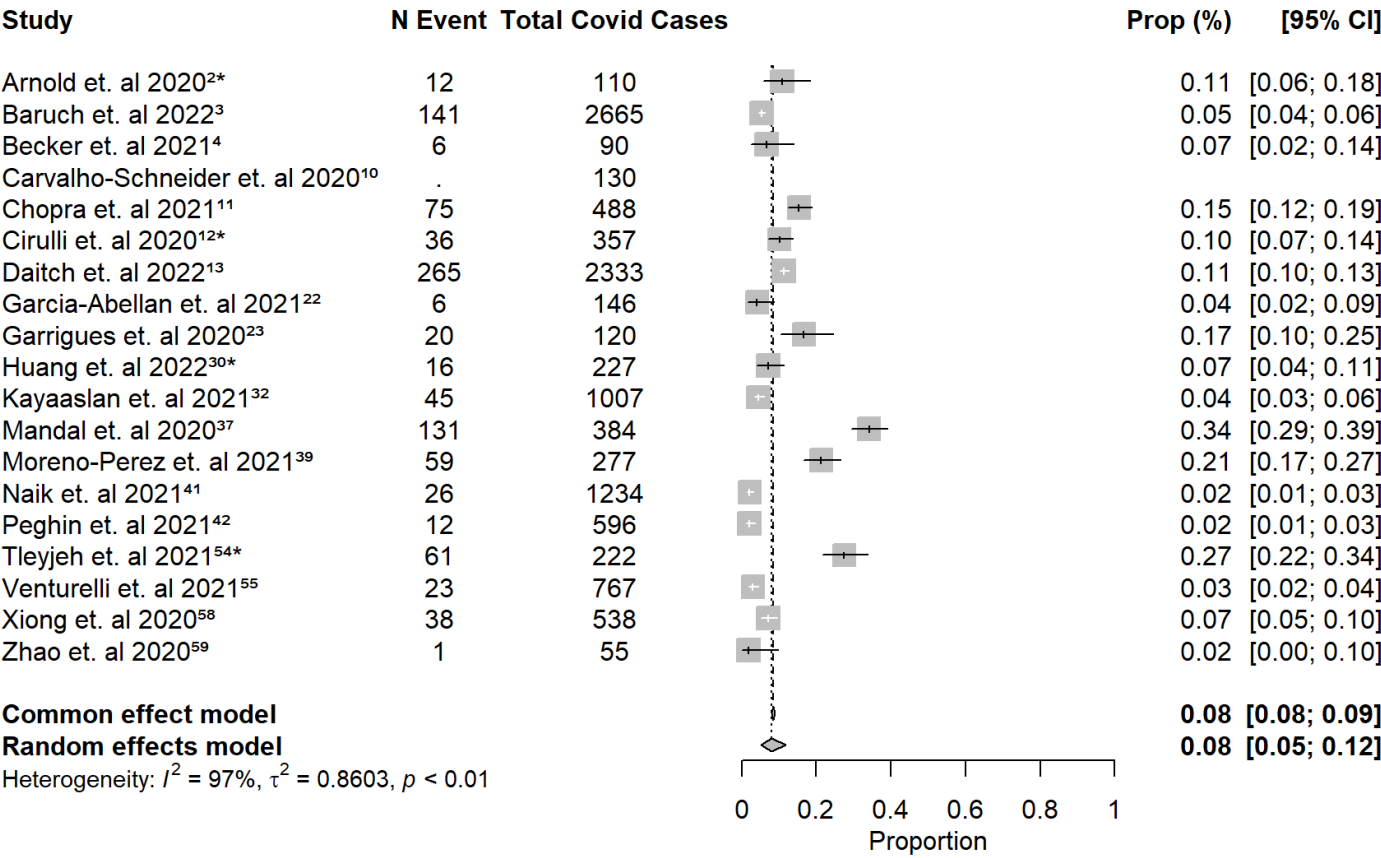
Persistant Cough:

Analysis 2  
Persistant Cough: Risk of Bias High



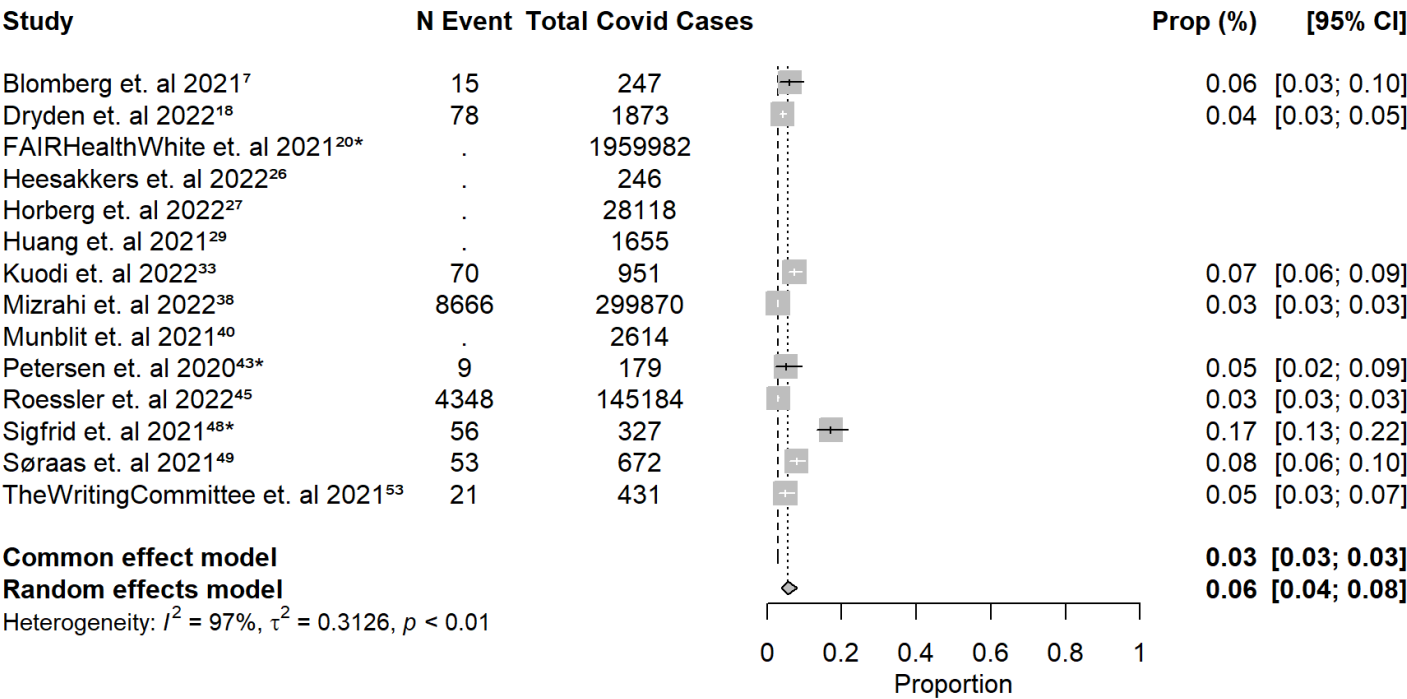
\* indicates value estimated from a figure

Analysis 2  
Persistant Cough: Risk of Bias Moderate



\* indicates value estimated from a figure

Analysis 2  
Persistant Cough: Risk of Bias Low

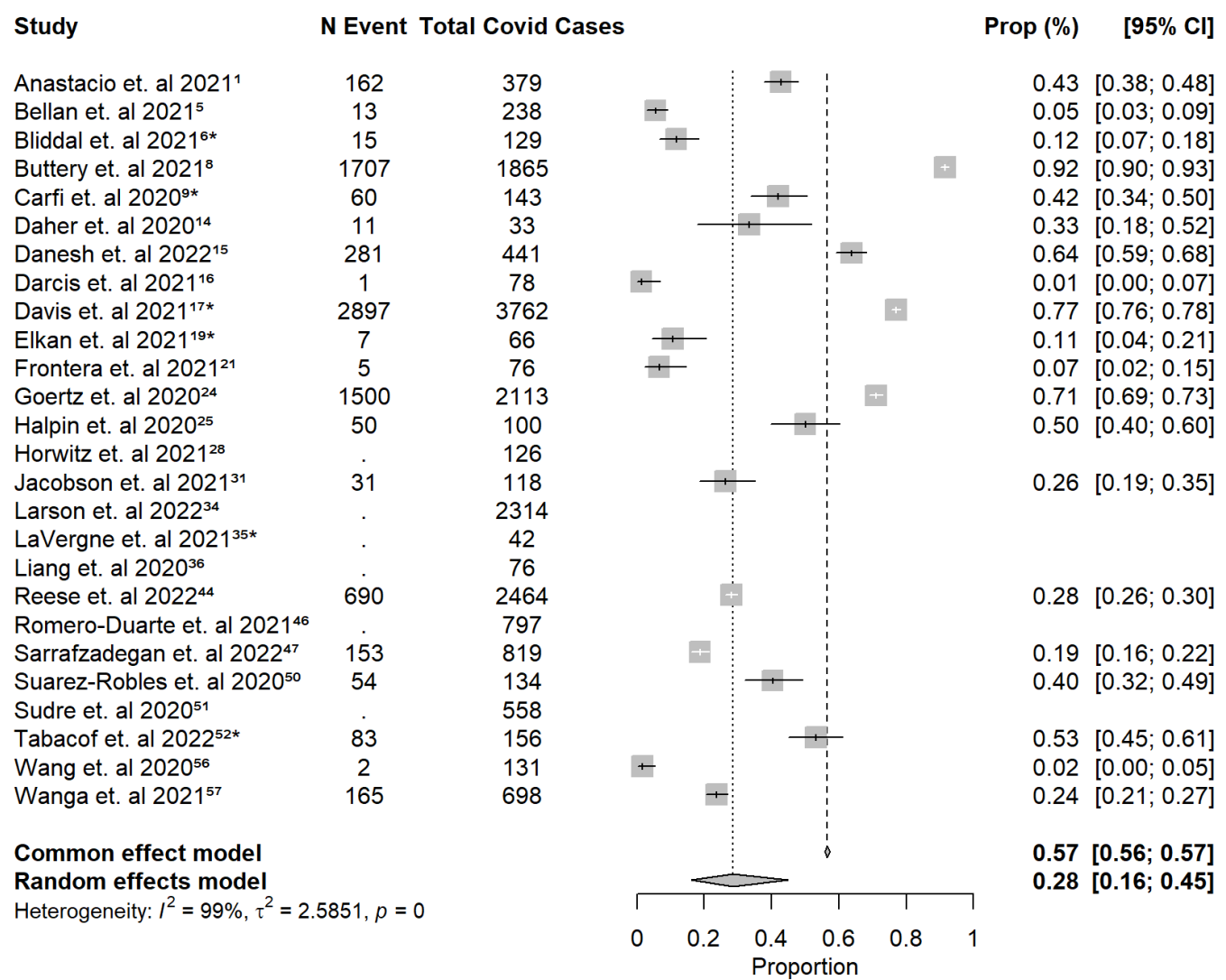


\* indicates value estimated from a figure

# Shortness Of Breath:

## Analysis 2

### Shortness Of Breath: Risk of Bias High

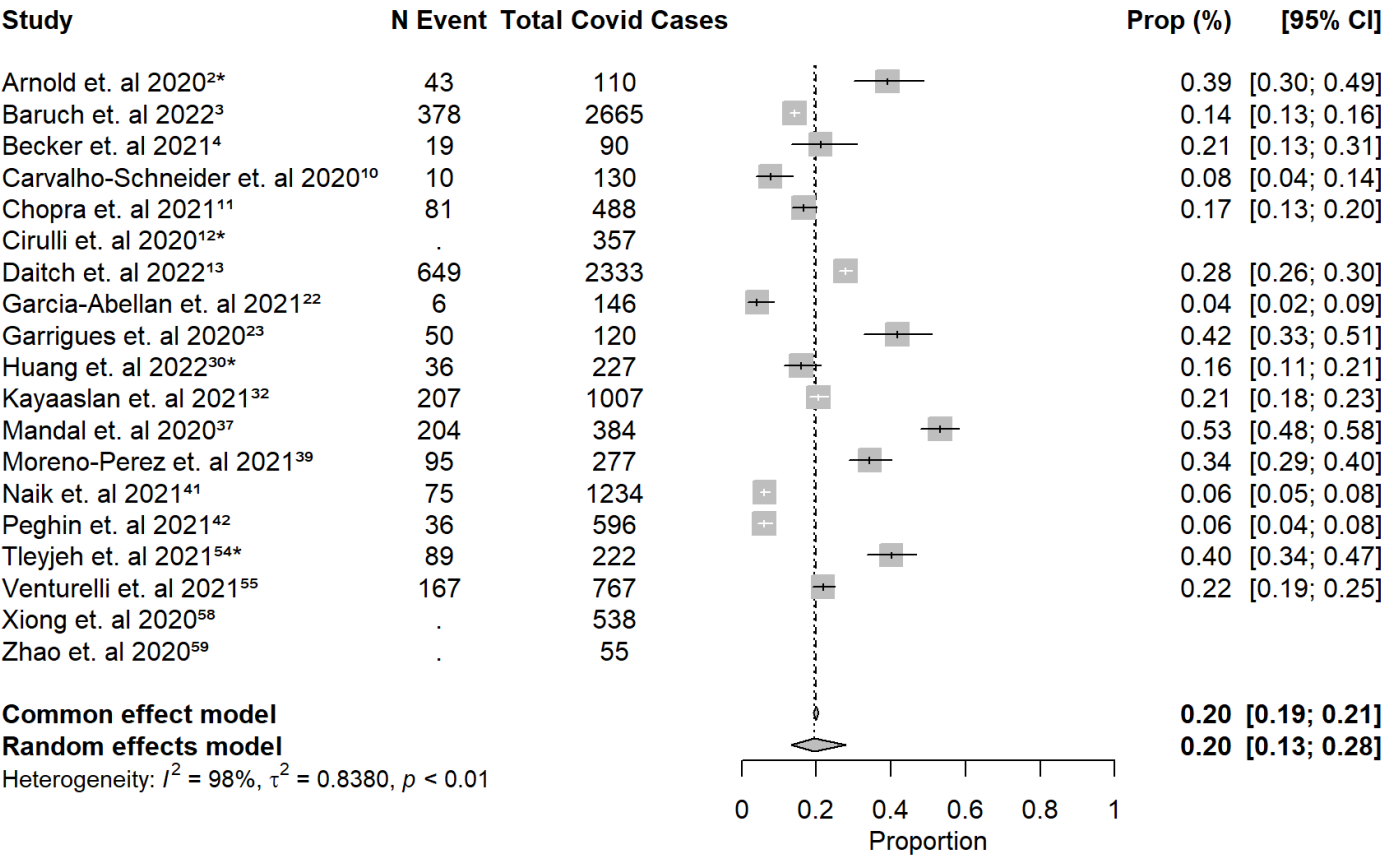


\* indicates value estimated from a figure



Analysis 2

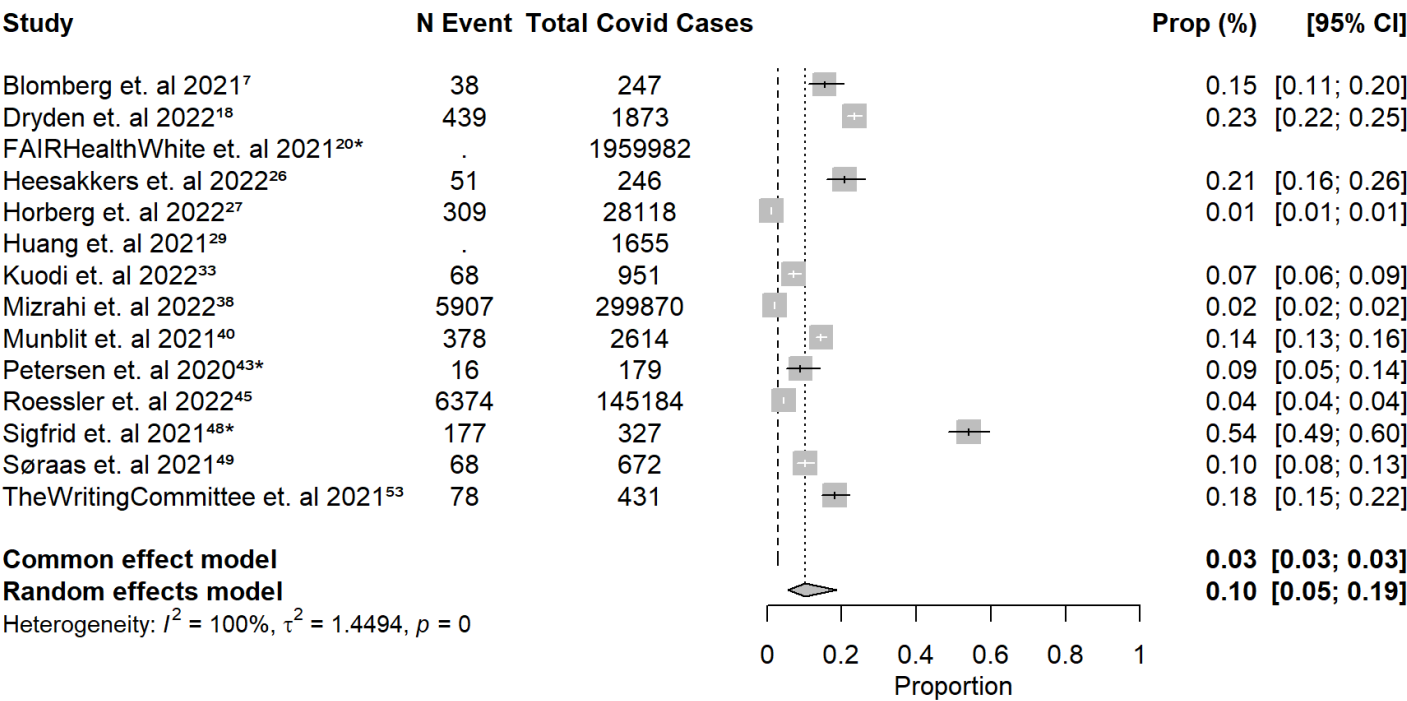
Shortness Of Breath: Risk of Bias Moderate



\* indicates value estimated from a figure

Analysis 2

Shortness Of Breath: Risk of Bias Low

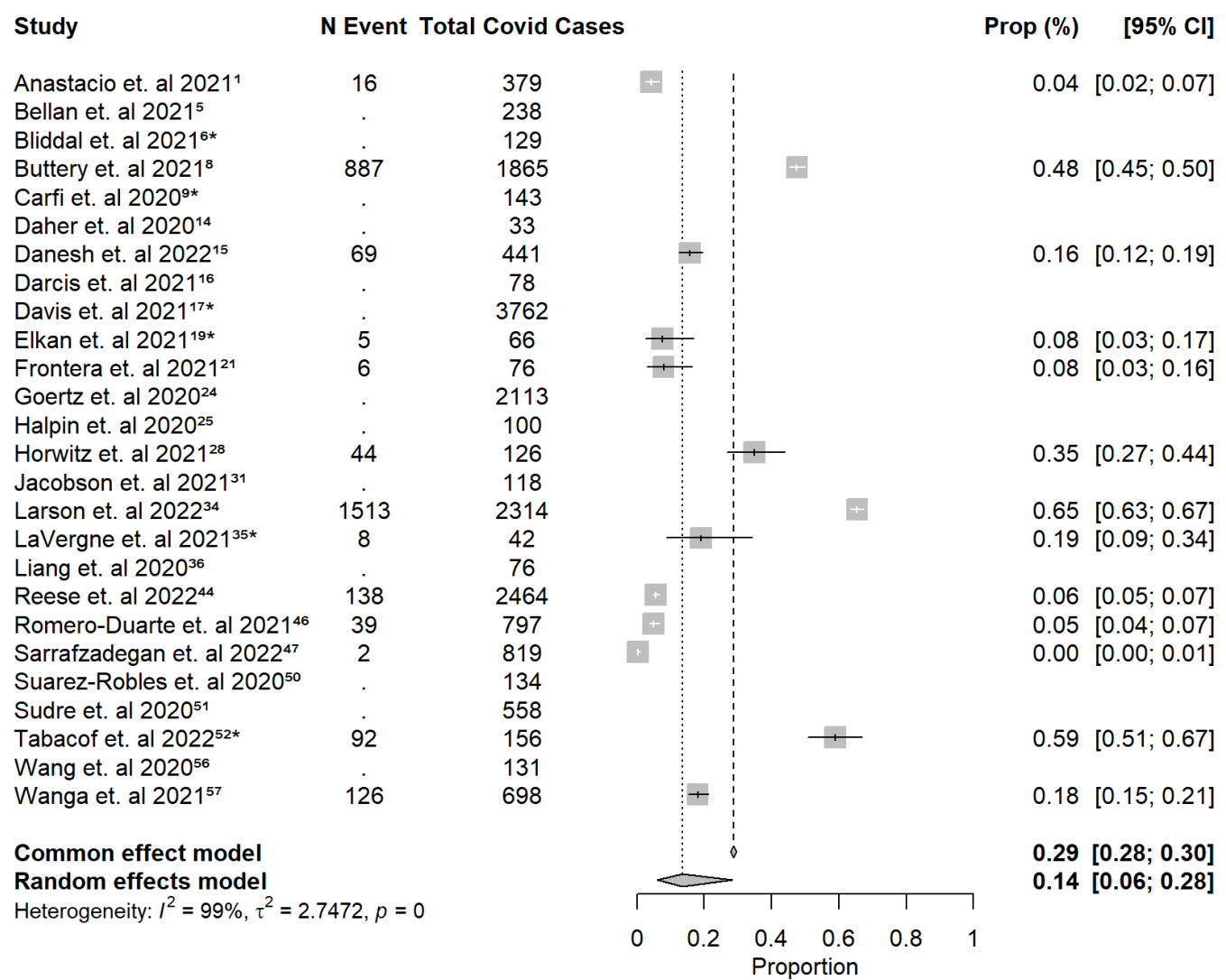


\* indicates value estimated from a figure

# Sleep Problems:

## Analysis 2

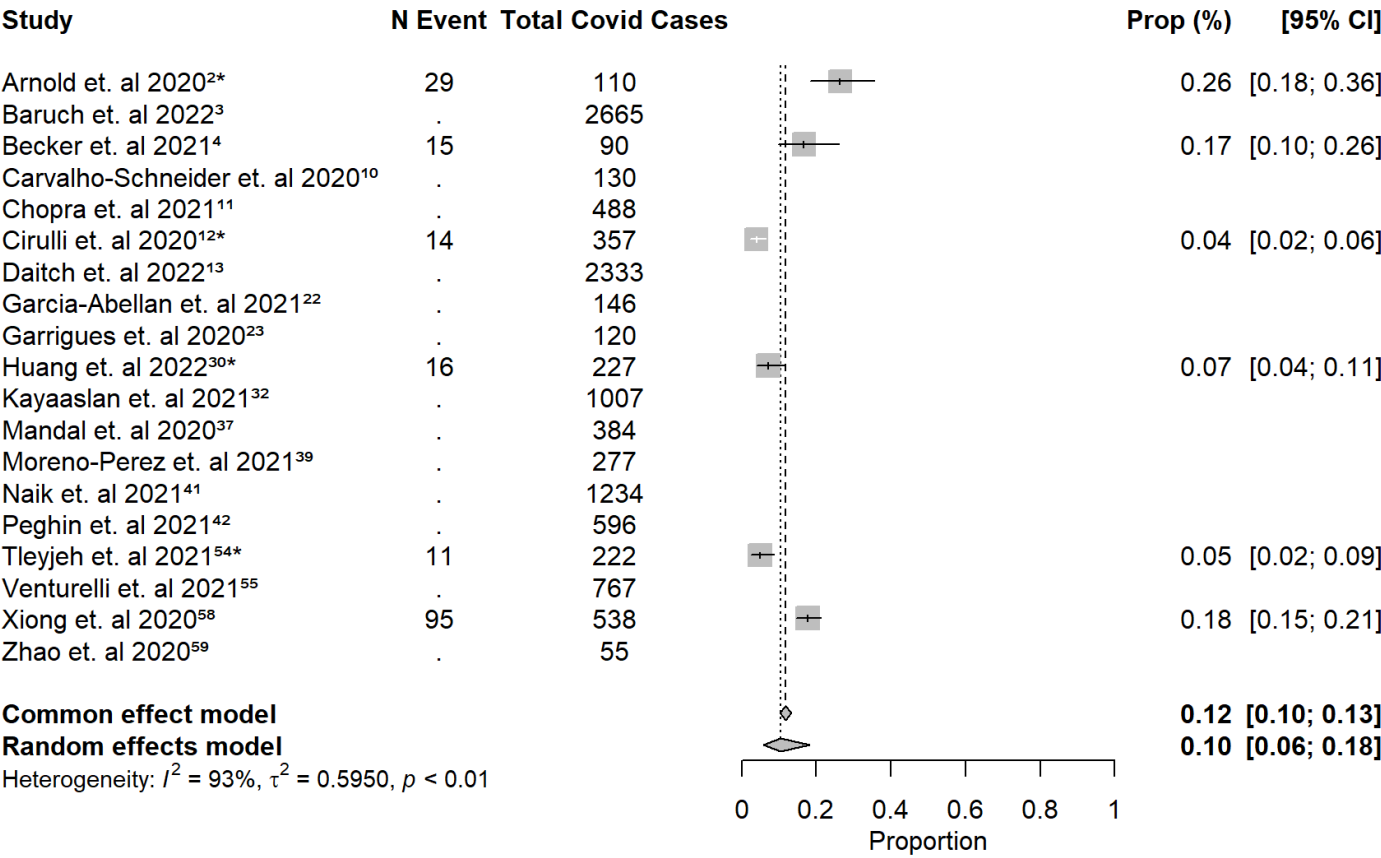
### Sleep Problems: Risk of Bias High



\* indicates value estimated from a figure

Analysis 2

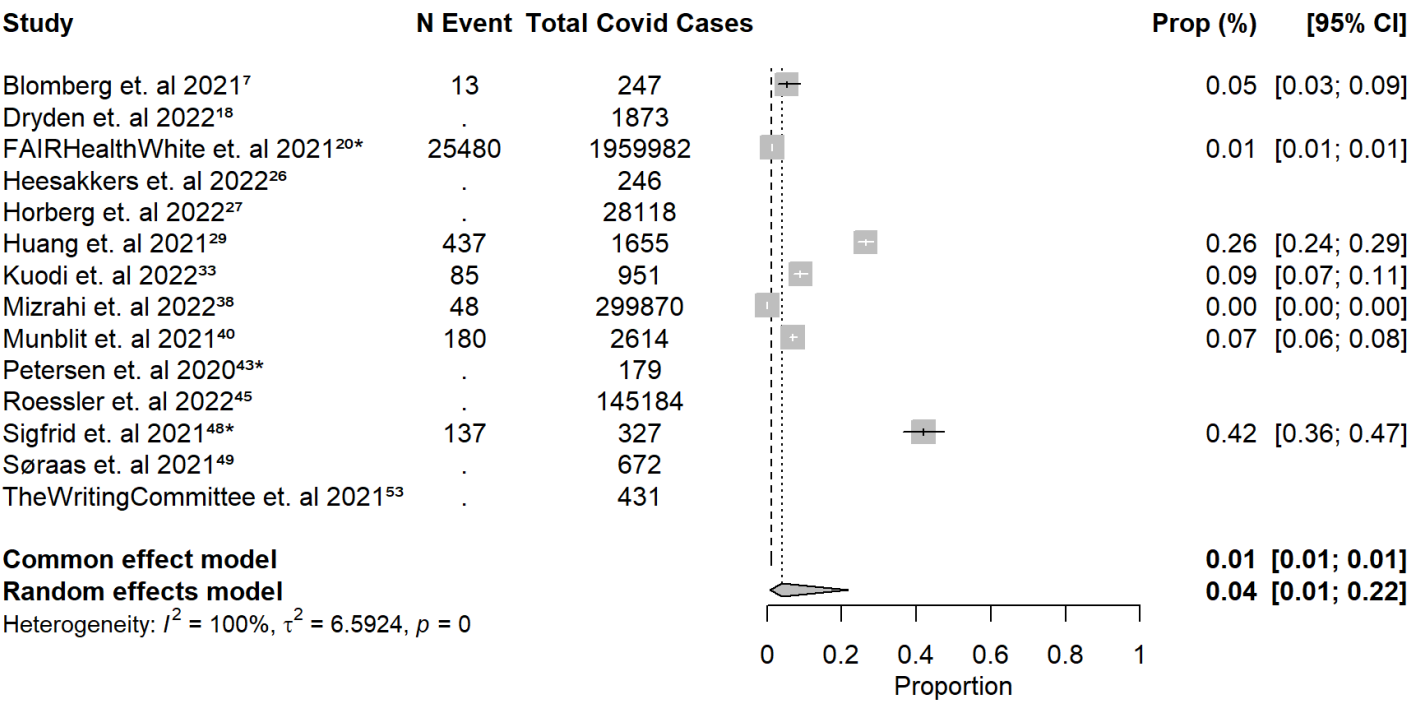
Sleep Problems: Risk of Bias Moderate



\* indicates value estimated from a figure

Analysis 2

Sleep Problems: Risk of Bias Low

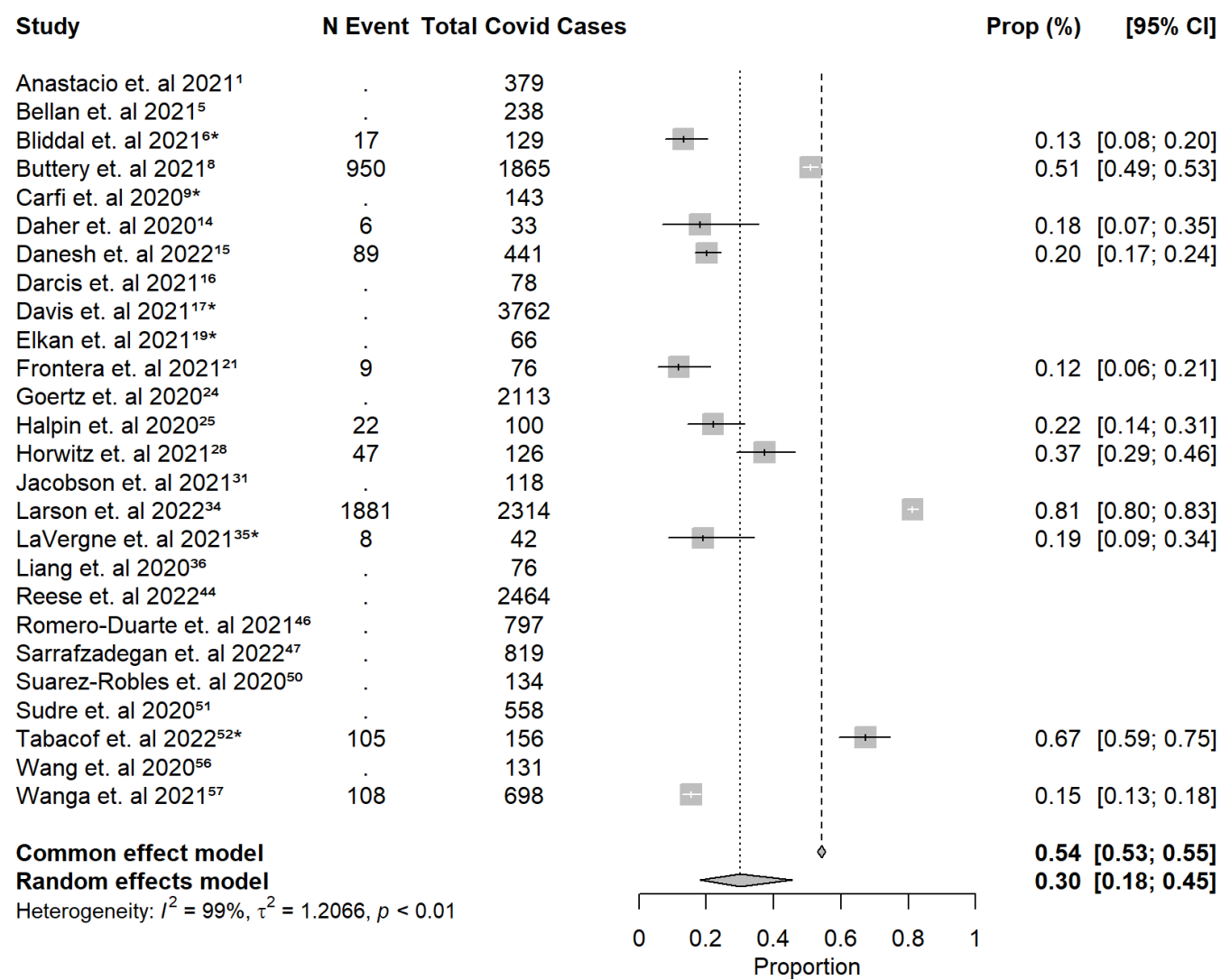


\* indicates value estimated from a figure

# Problems Thinking Or Concentrating:

## Analysis 2

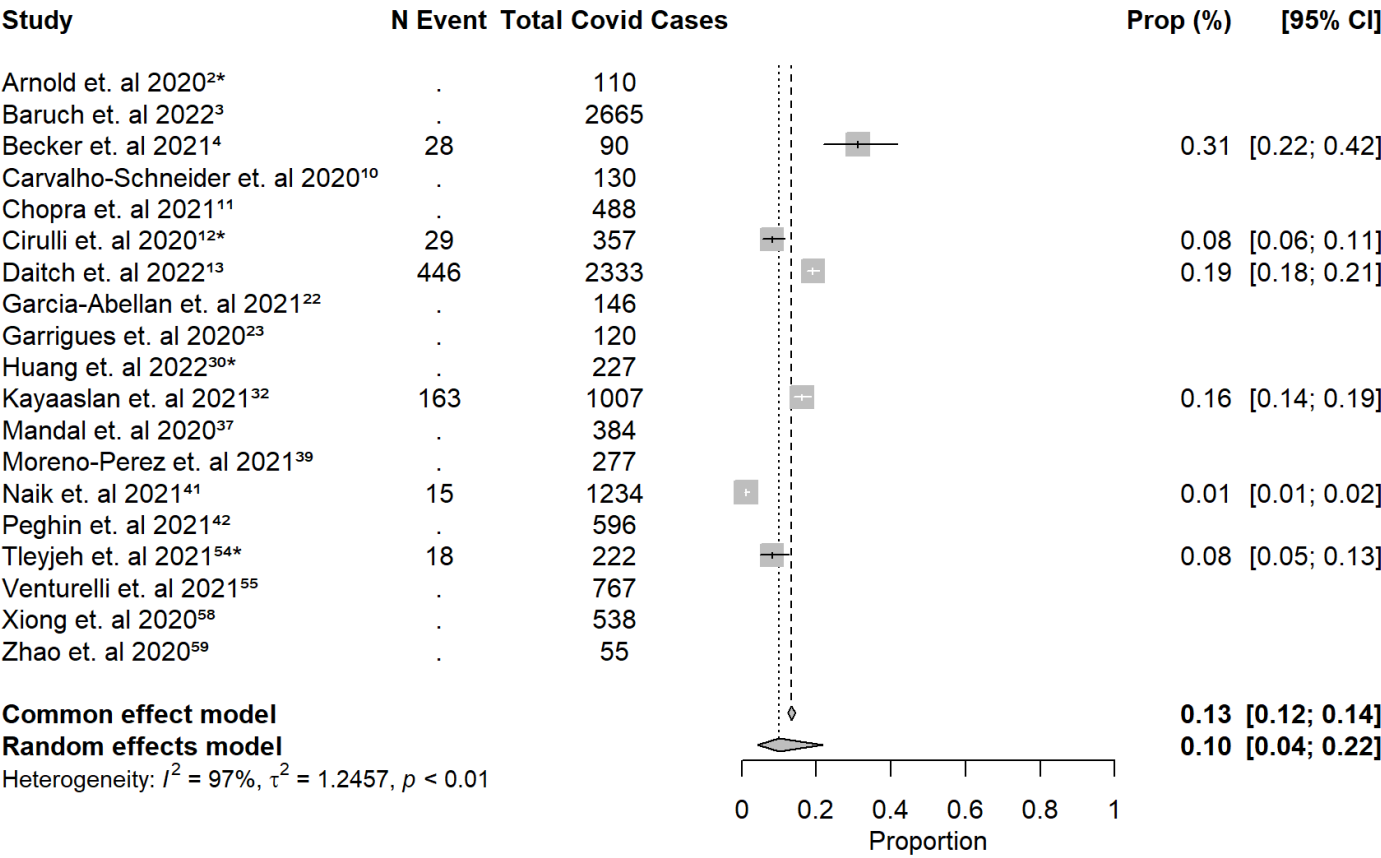
### Problems Thinking Or Concentrating: Risk of Bias High



\* indicates value estimated from a figure

Analysis 2

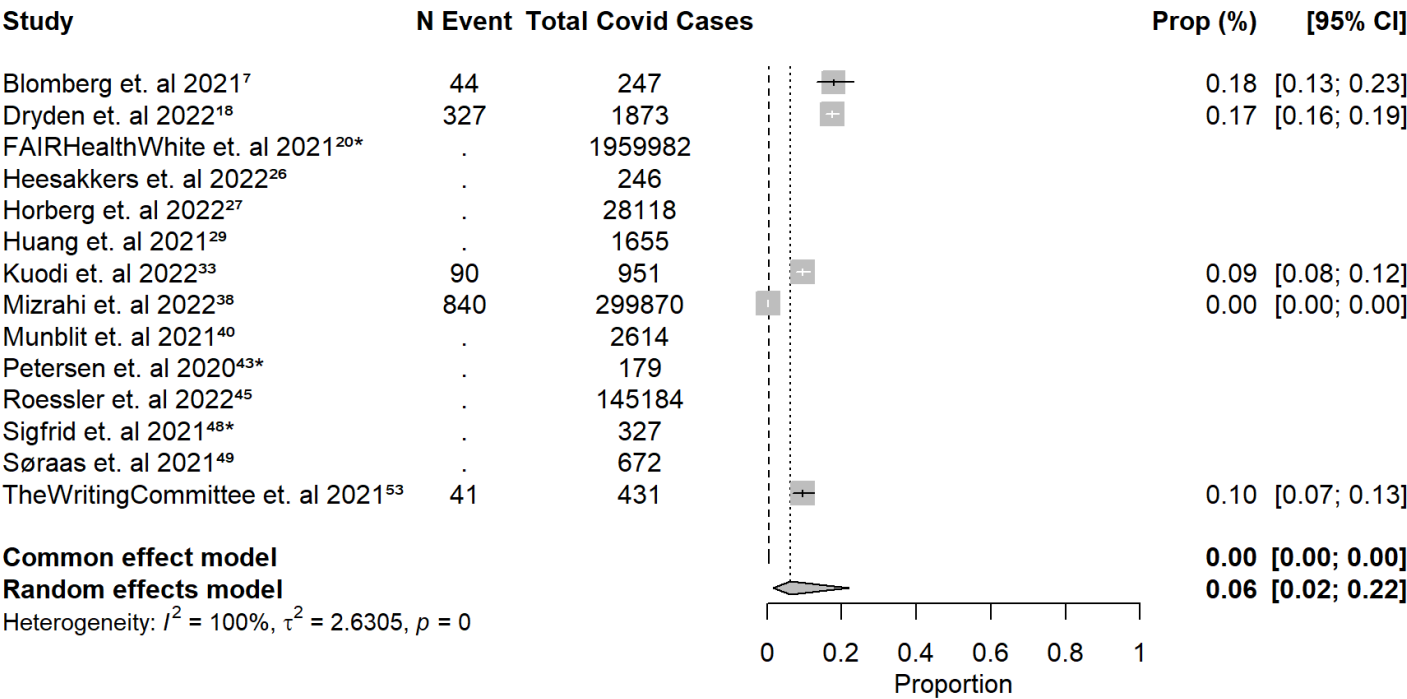
Problems Thinking Or Concentrating: Risk of Bias Moderate



\* indicates value estimated from a figure

## Analysis 2

### Problems Thinking Or Concentrating: Risk of Bias Low

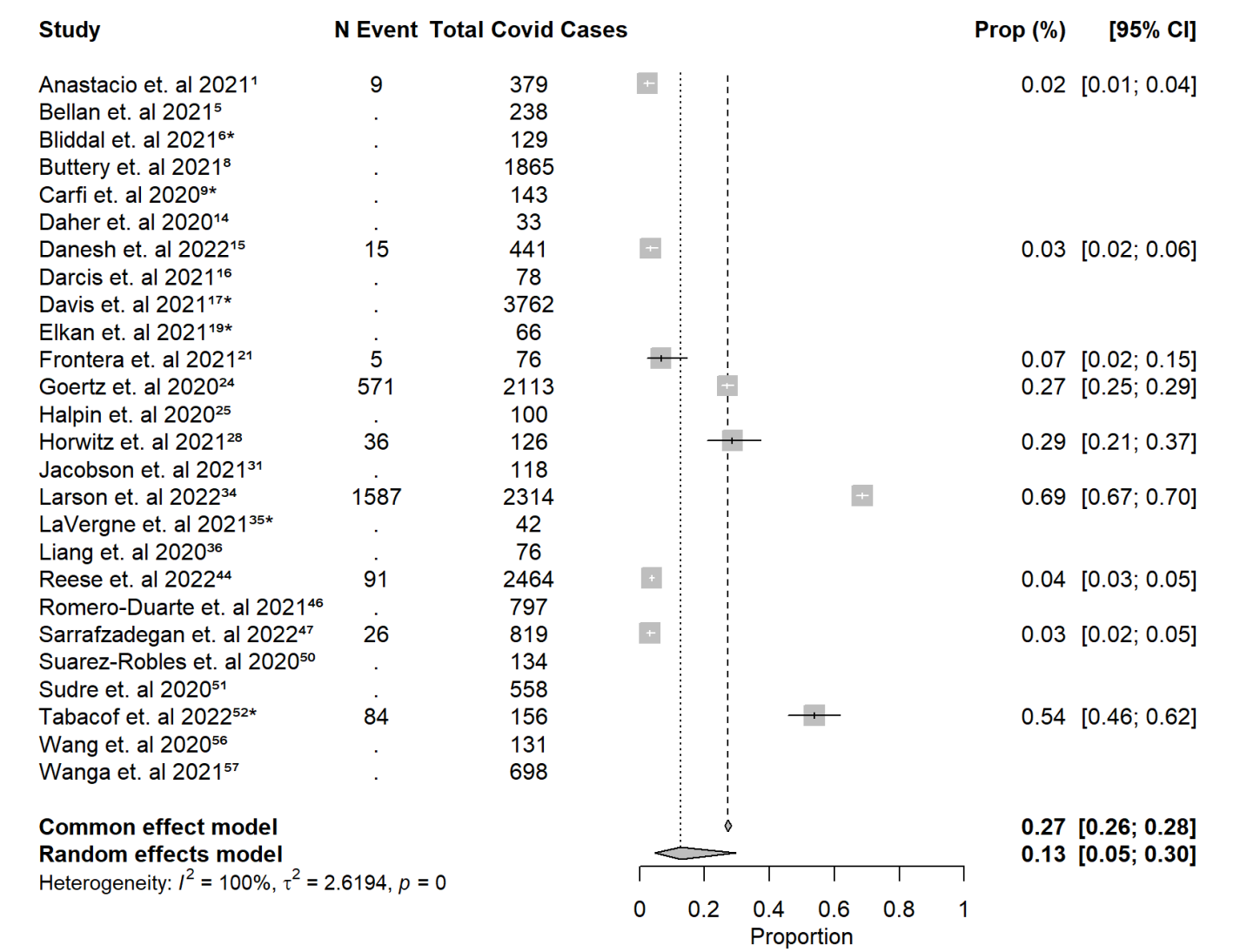


\* indicates value estimated from a figure



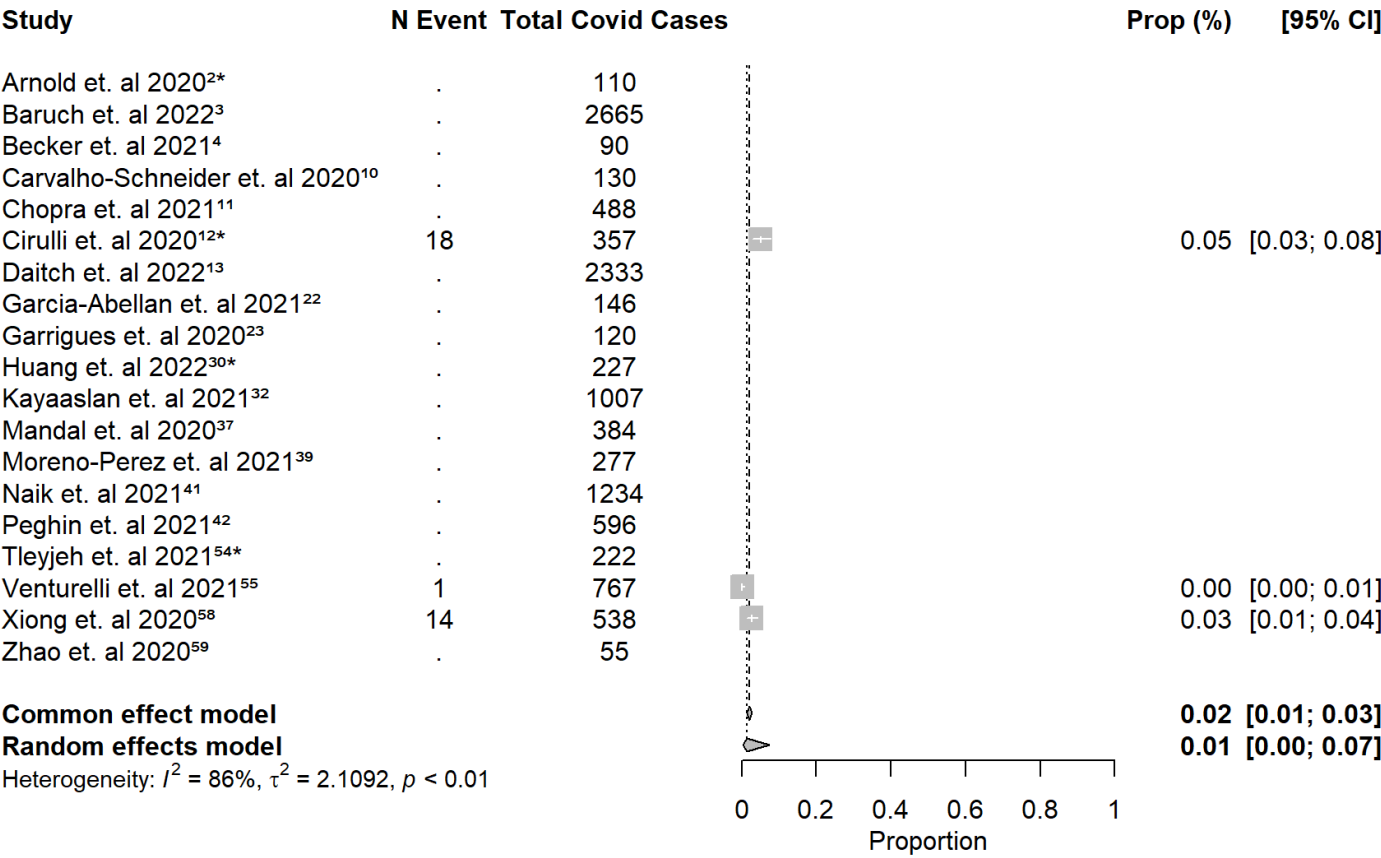
Dizziness:

Analysis 2  
Dizziness: Risk of Bias High



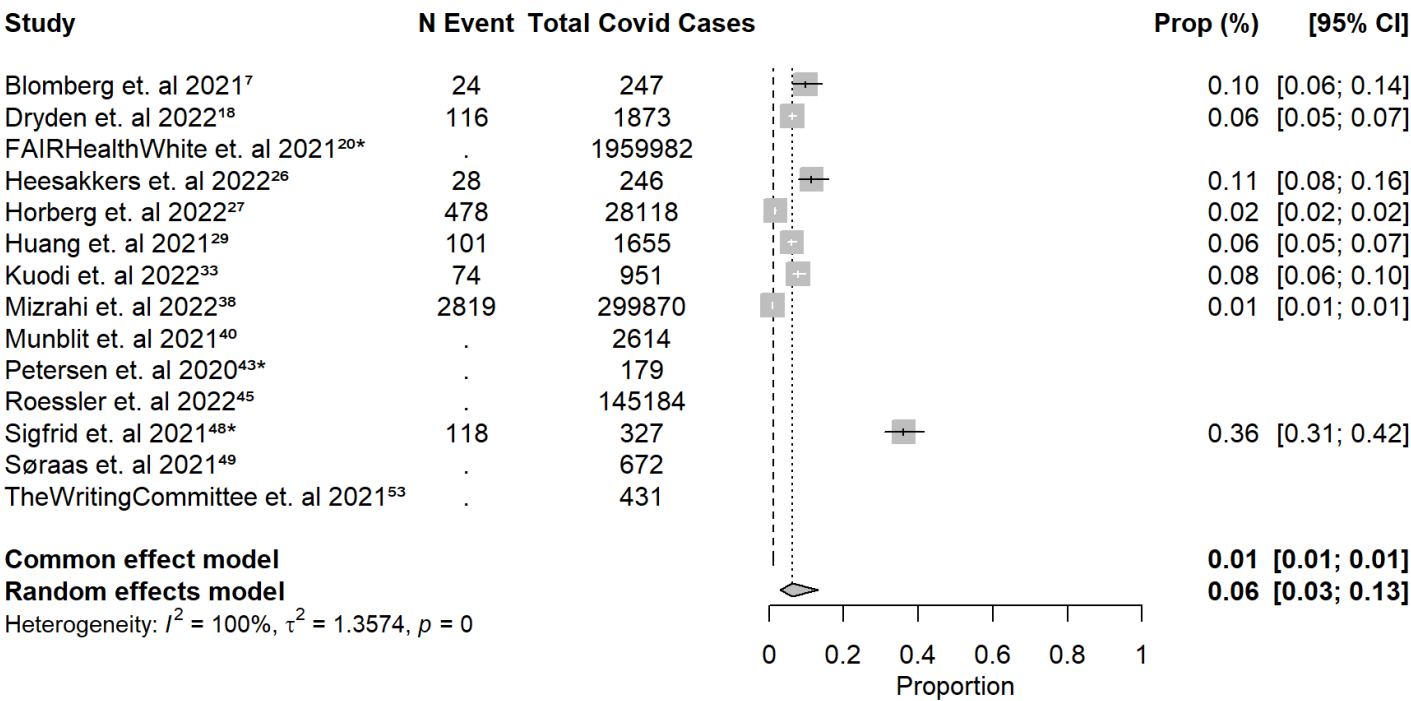
\* indicates value estimated from a figure

Analysis 2  
Dizziness: Risk of Bias Moderate



\* indicates value estimated from a figure

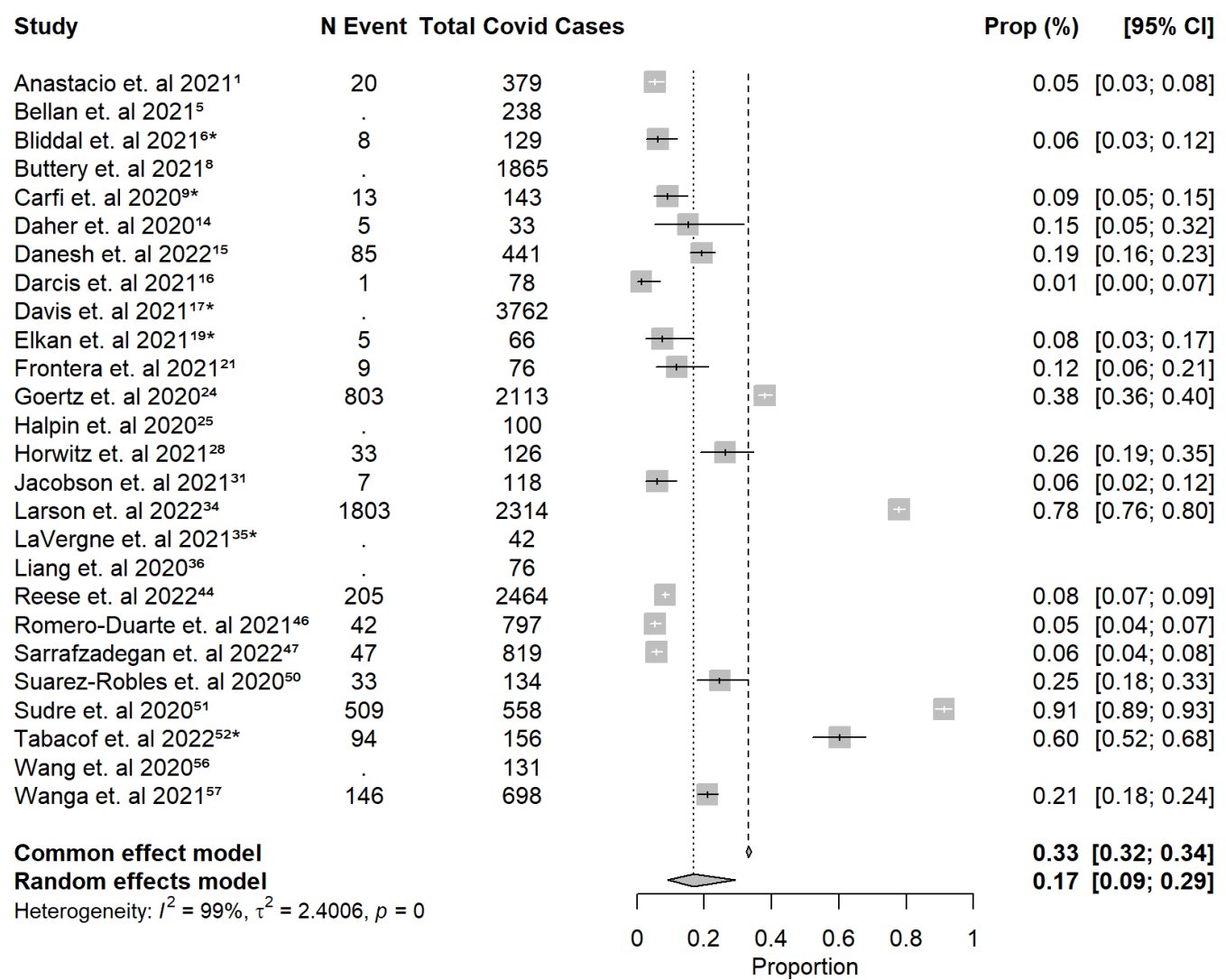
Analysis 2  
Dizziness: Risk of Bias Low



\* indicates value estimated from a figure

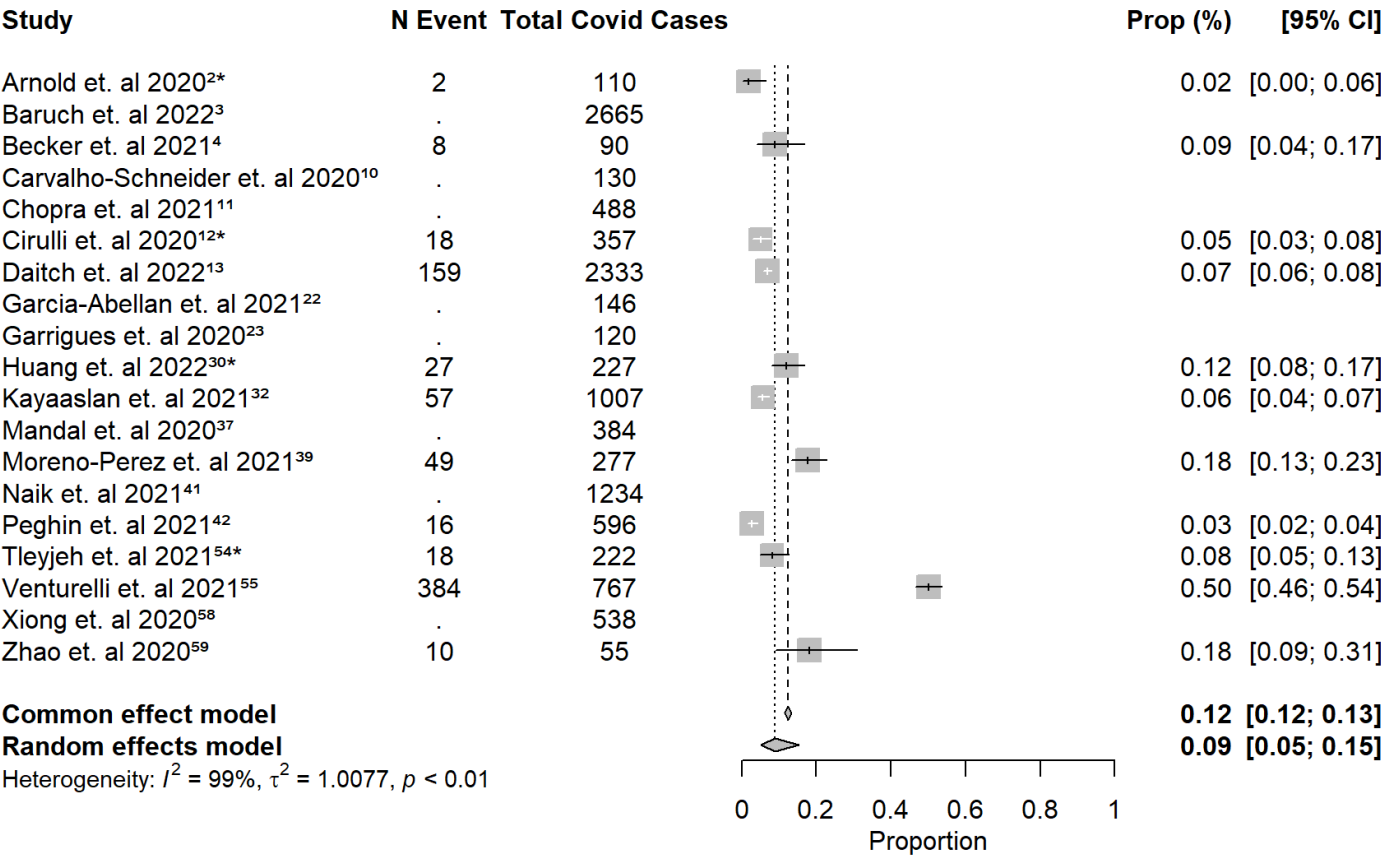
Headache:

Analysis 2  
Headache: Risk of Bias High



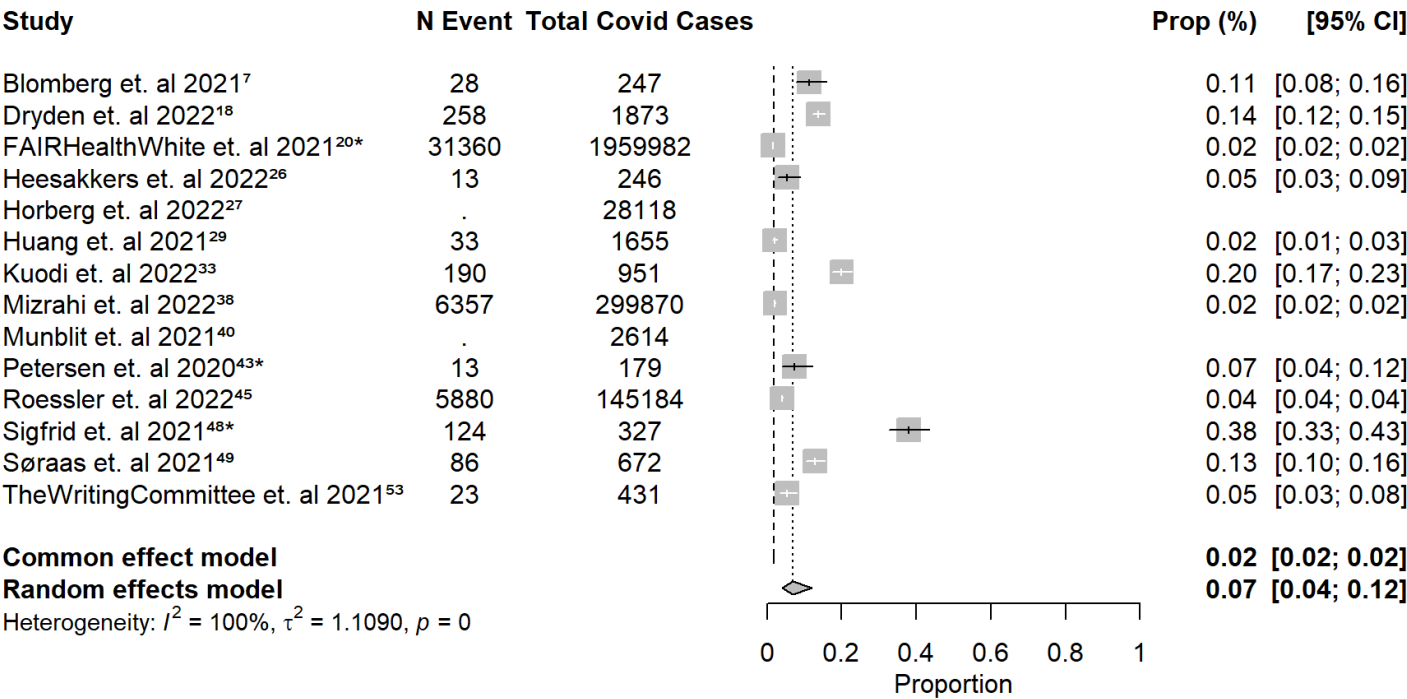
\* indicates value estimated from a figure

Analysis 2  
Headache: Risk of Bias Moderate



\* indicates value estimated from a figure

Analysis 2  
Headache: Risk of Bias Low

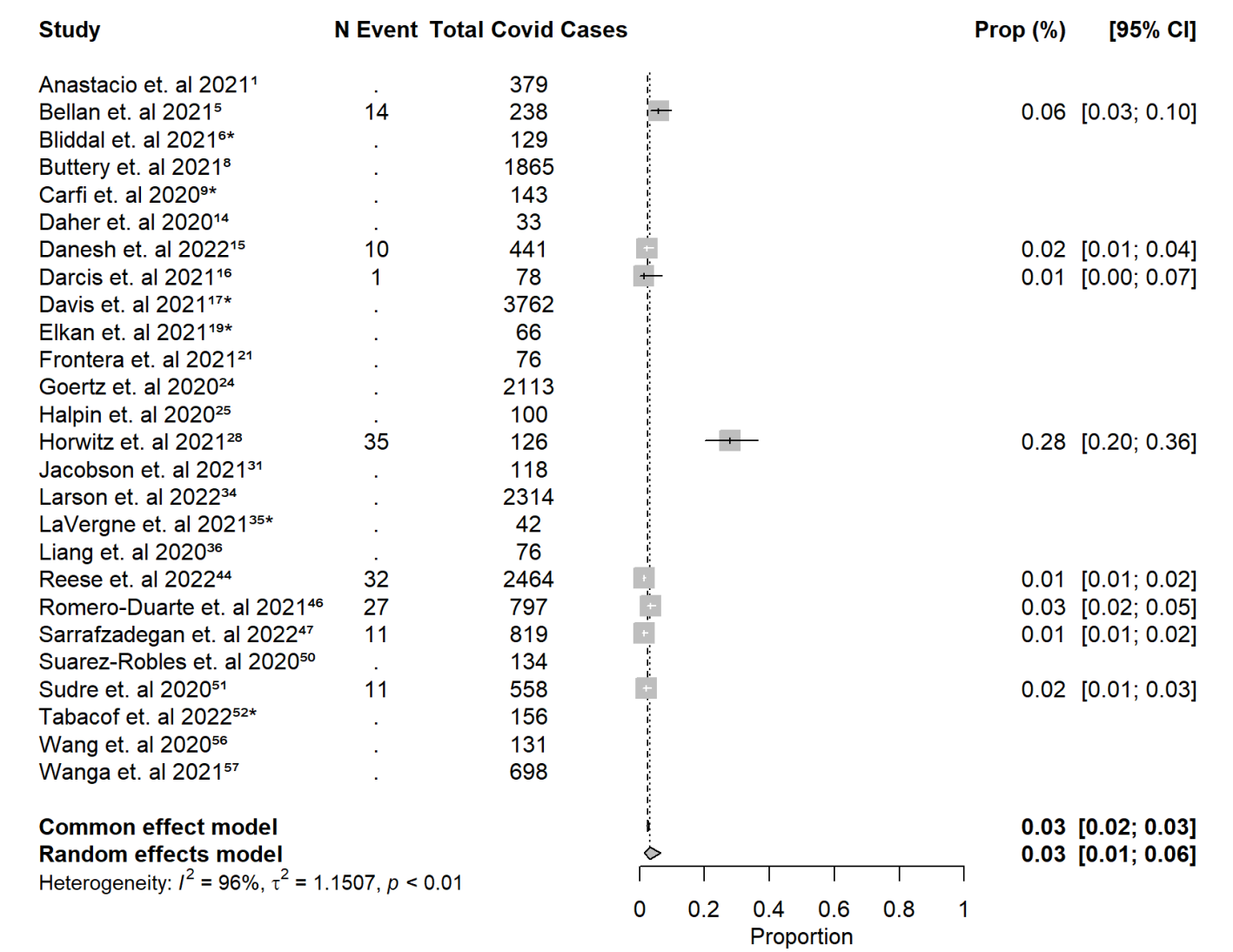


\* indicates value estimated from a figure

# Nerve Problems Seizures:

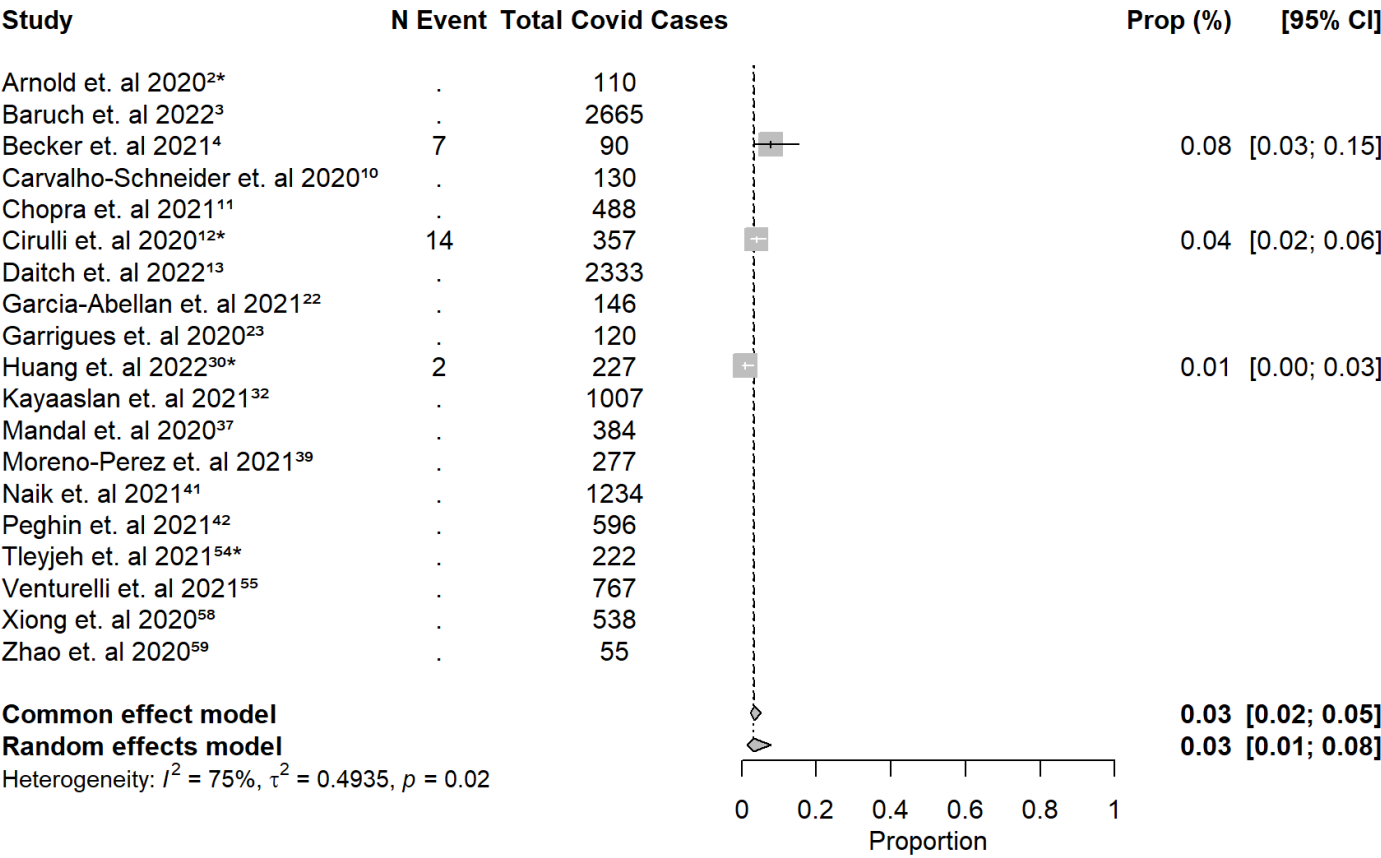
## Analysis 2

### Nerve Problems Seizures: Risk of Bias High



Analysis 2

Nerve Problems Seizures: Risk of Bias Moderate

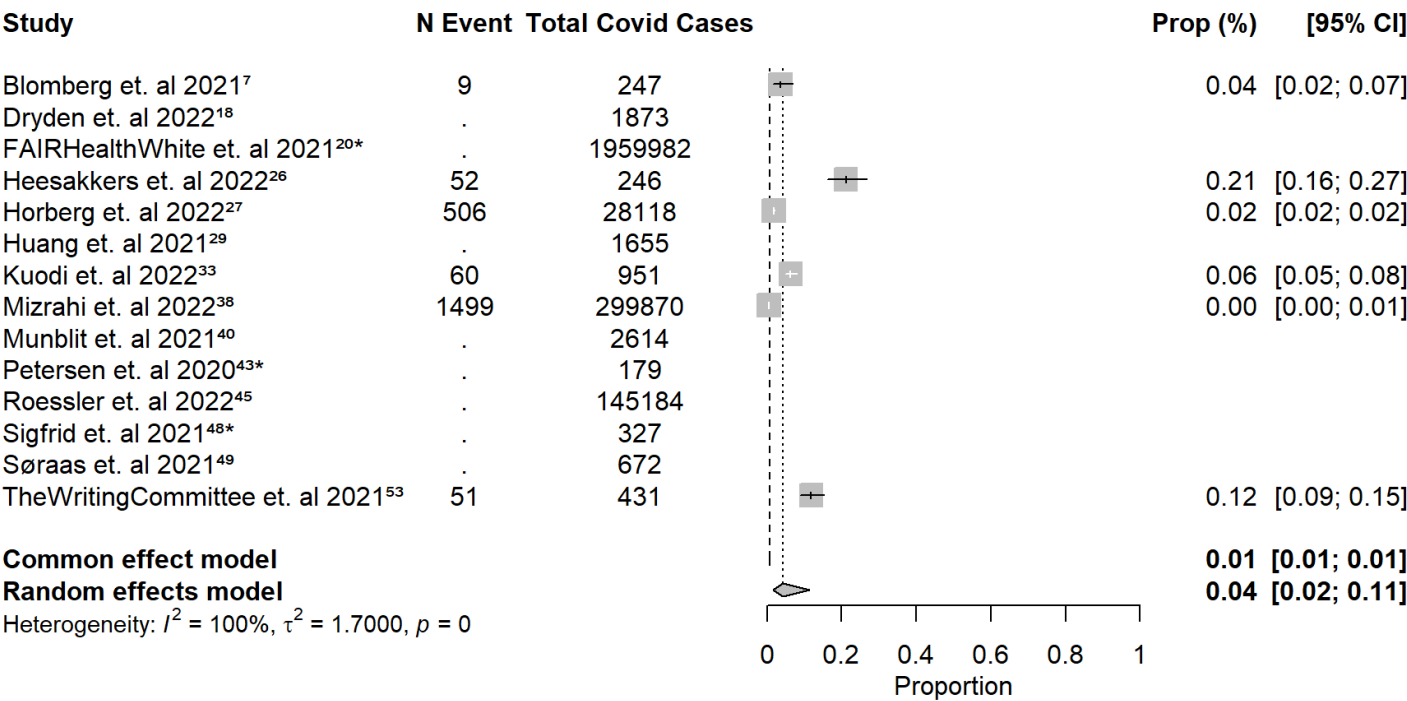


\* indicates value estimated from a figure



Analysis 2

Nerve Problems Seizures: Risk of Bias Low

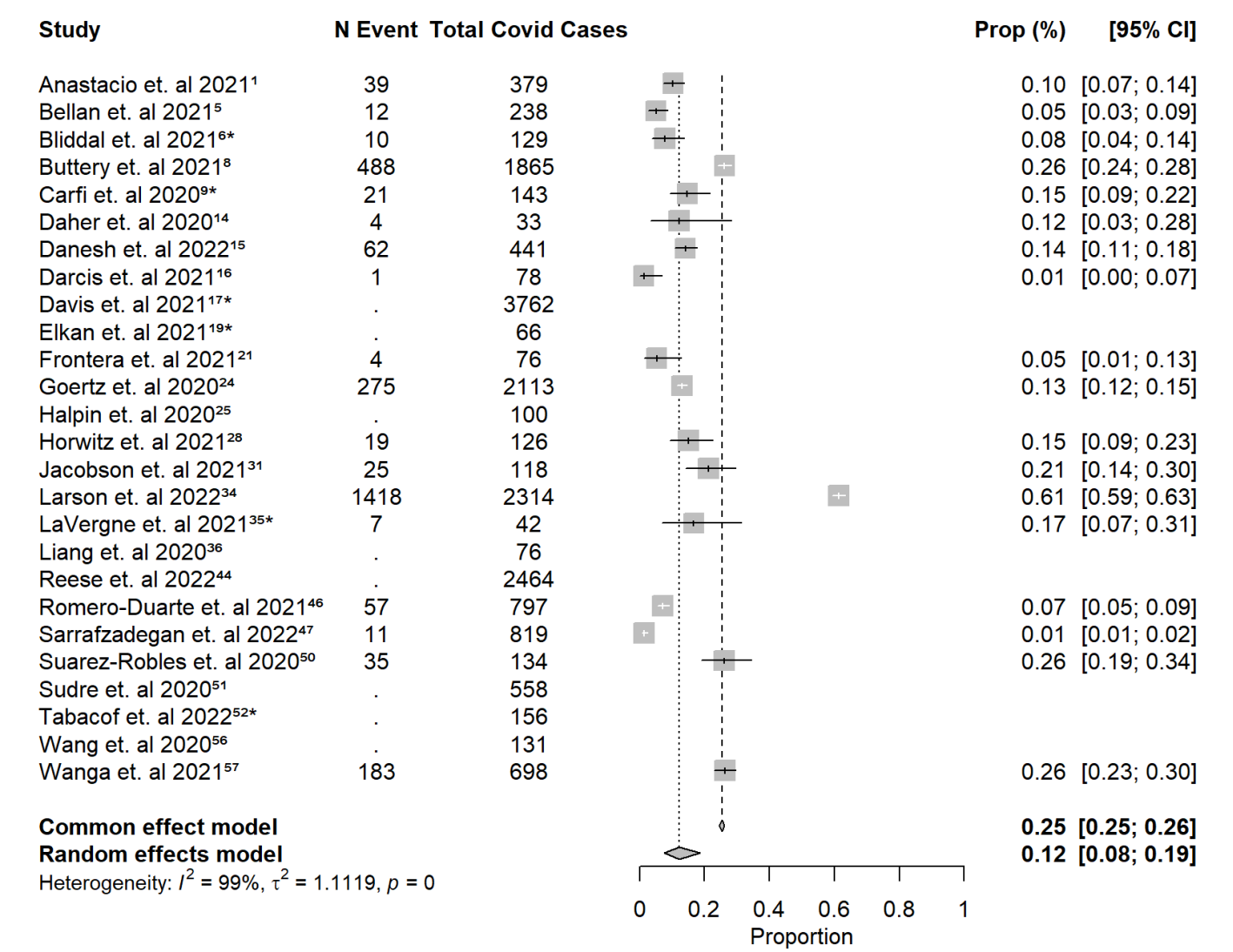


\* indicates value estimated from a figure

# Loss Of Or Change In Smell Or Taste:

## Analysis 2

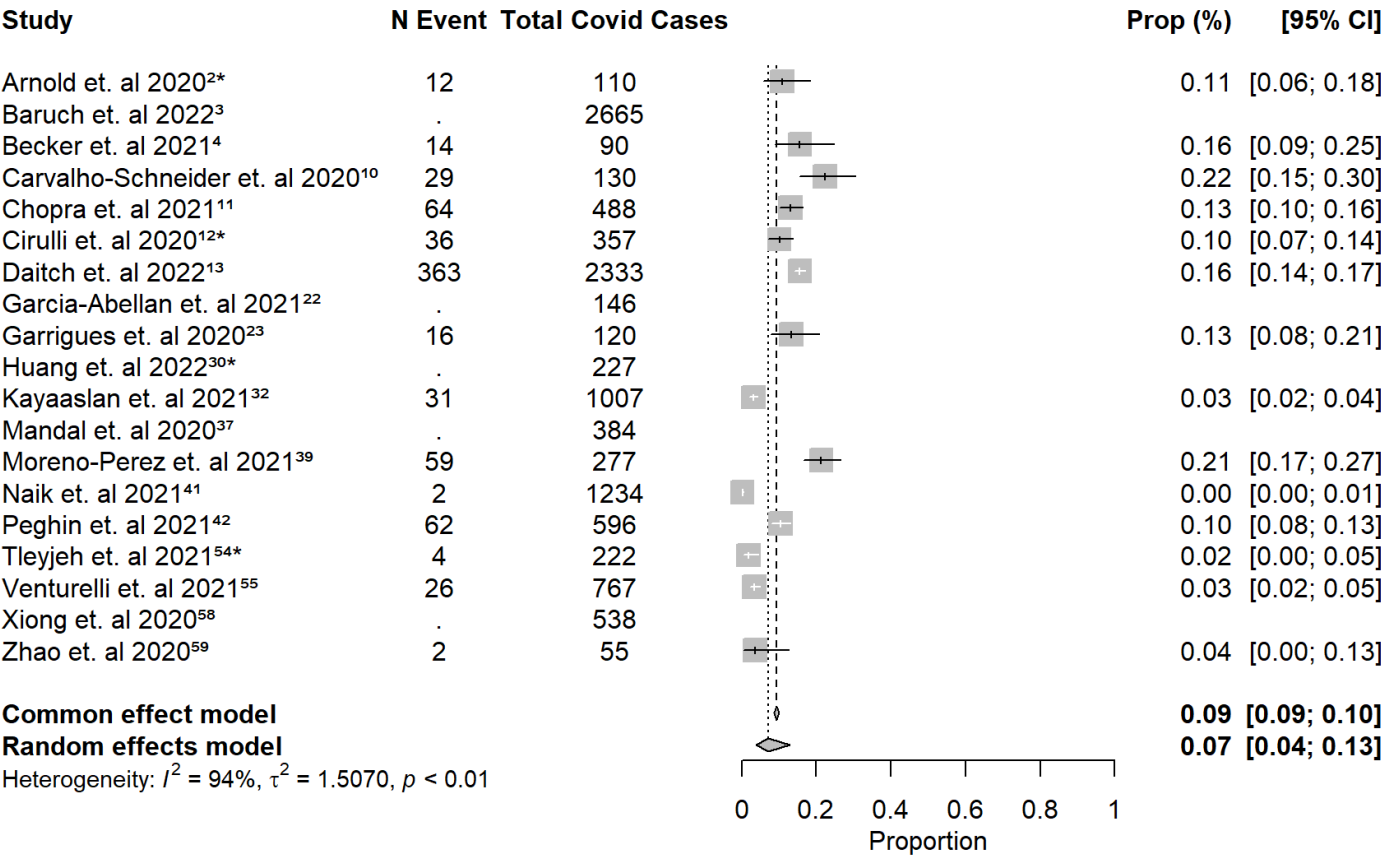
### Loss Of Or Change In Smell Or Taste: Risk of Bias High



\* indicates value estimated from a figure

Analysis 2

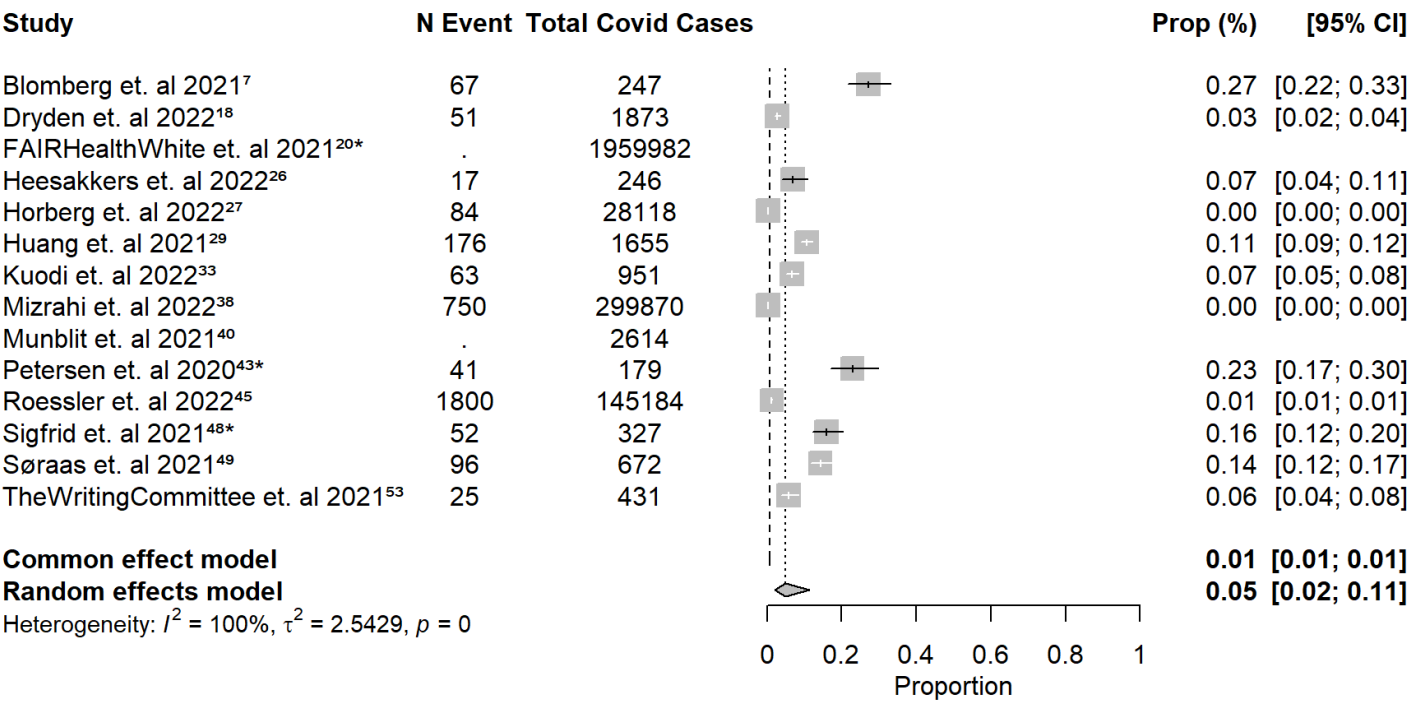
Loss Of Or Change In Smell Or Taste: Risk of Bias Moderate



\* indicates value estimated from a figure

Analysis 2

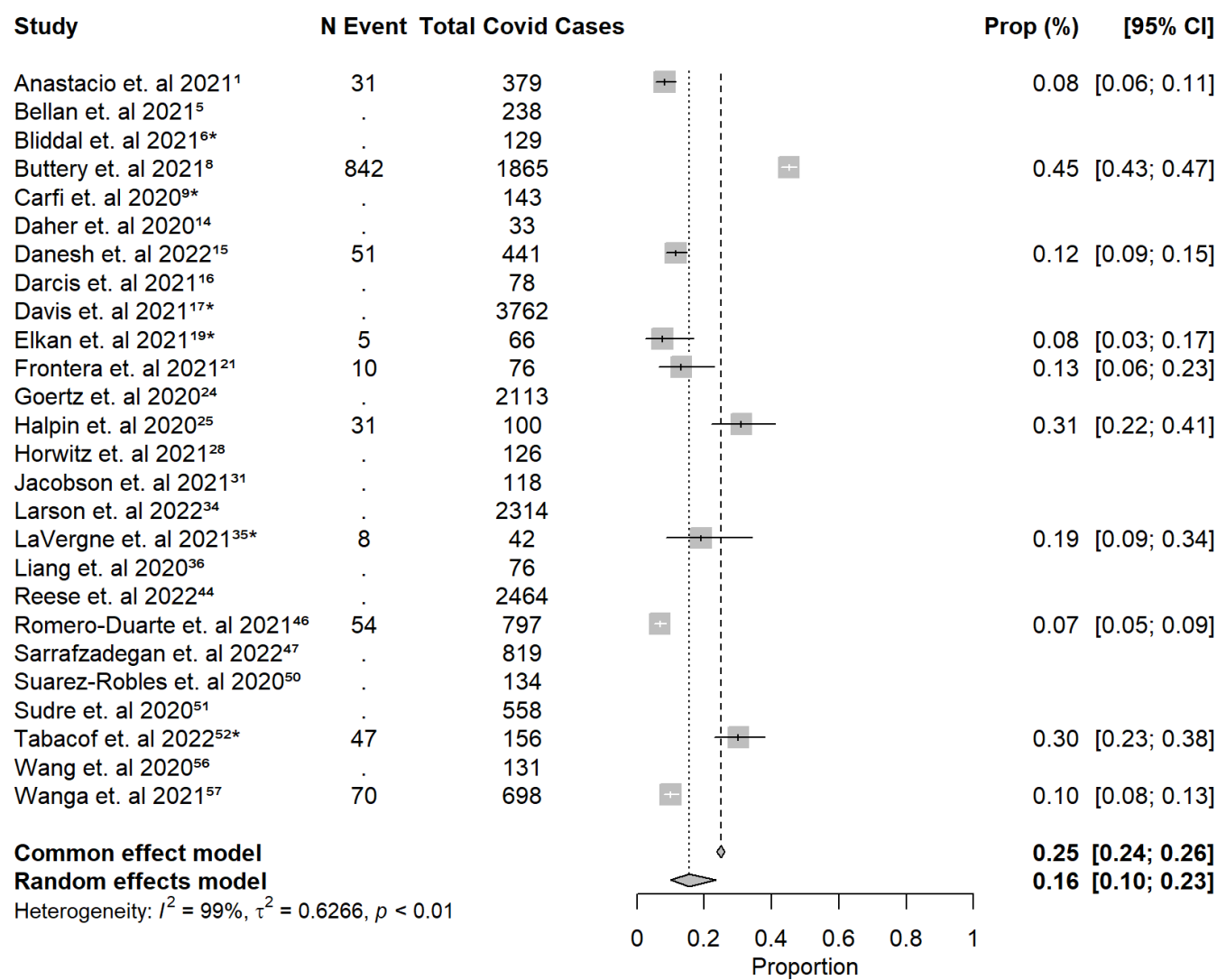
Loss Of Or Change In Smell Or Taste: Risk of Bias Low



\* indicates value estimated from a figure

# Mental Health Concerns:

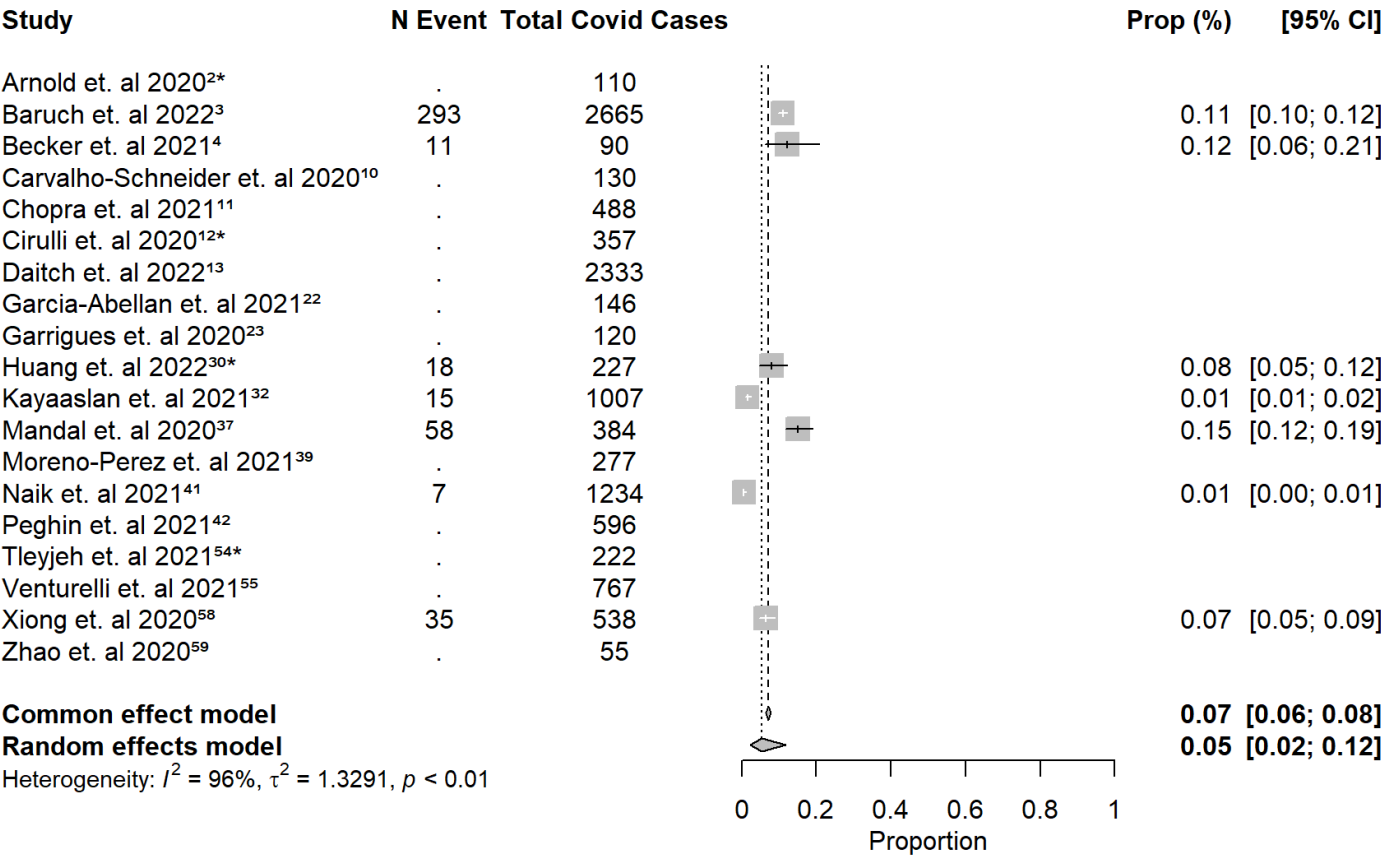
Analysis 2  
Mental Health Concerns: Risk of Bias High



\* indicates value estimated from a figure

Analysis 2

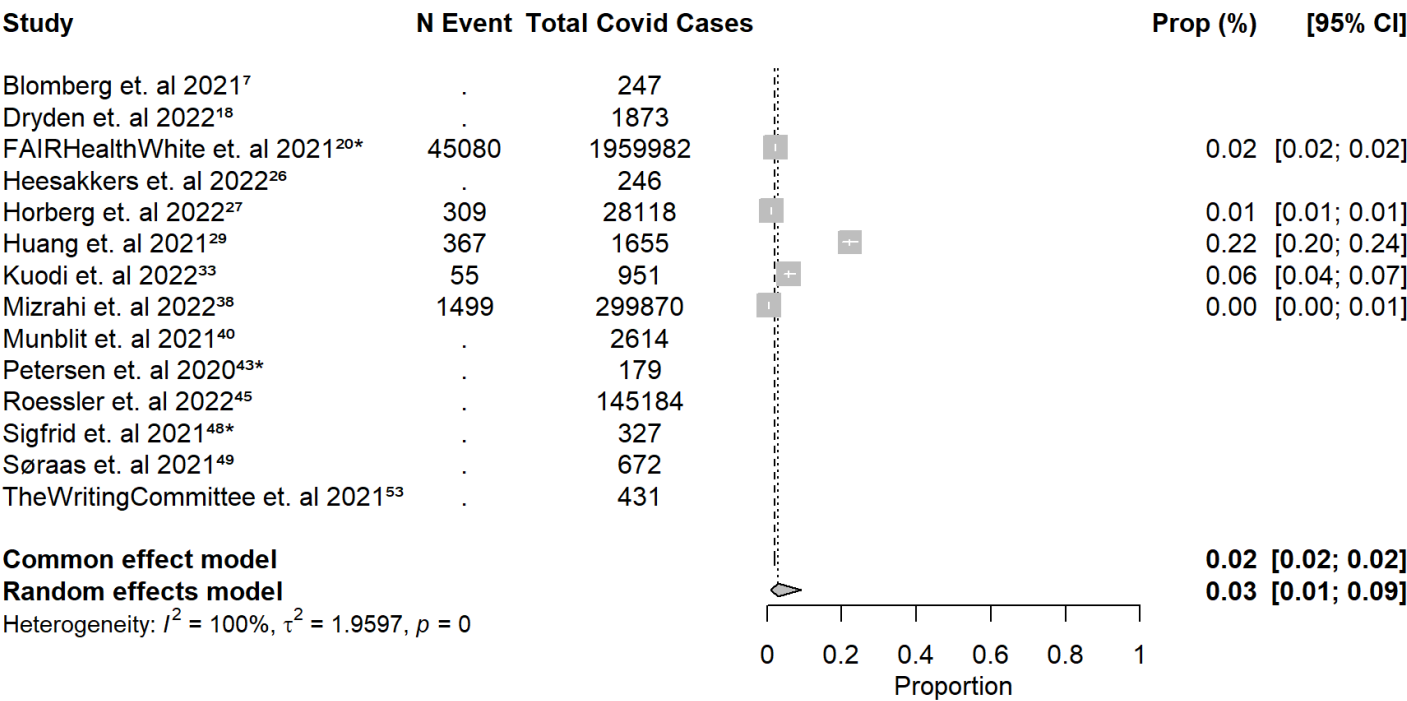
Mental Health Concerns: Risk of Bias Moderate



\* indicates value estimated from a figure

Analysis 2

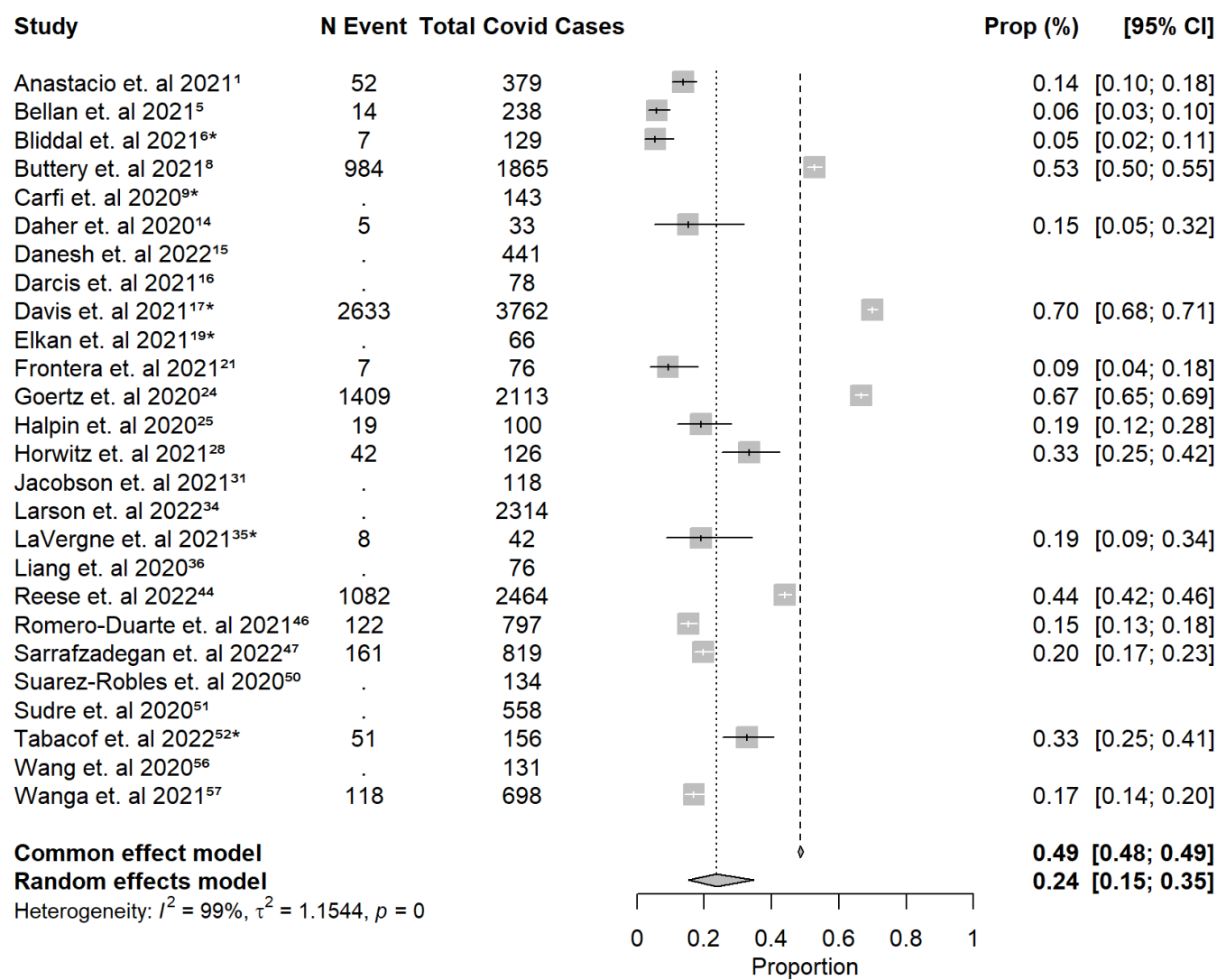
Mental Health Concerns: Risk of Bias Low



\* indicates value estimated from a figure

Joint Muscle Pain:

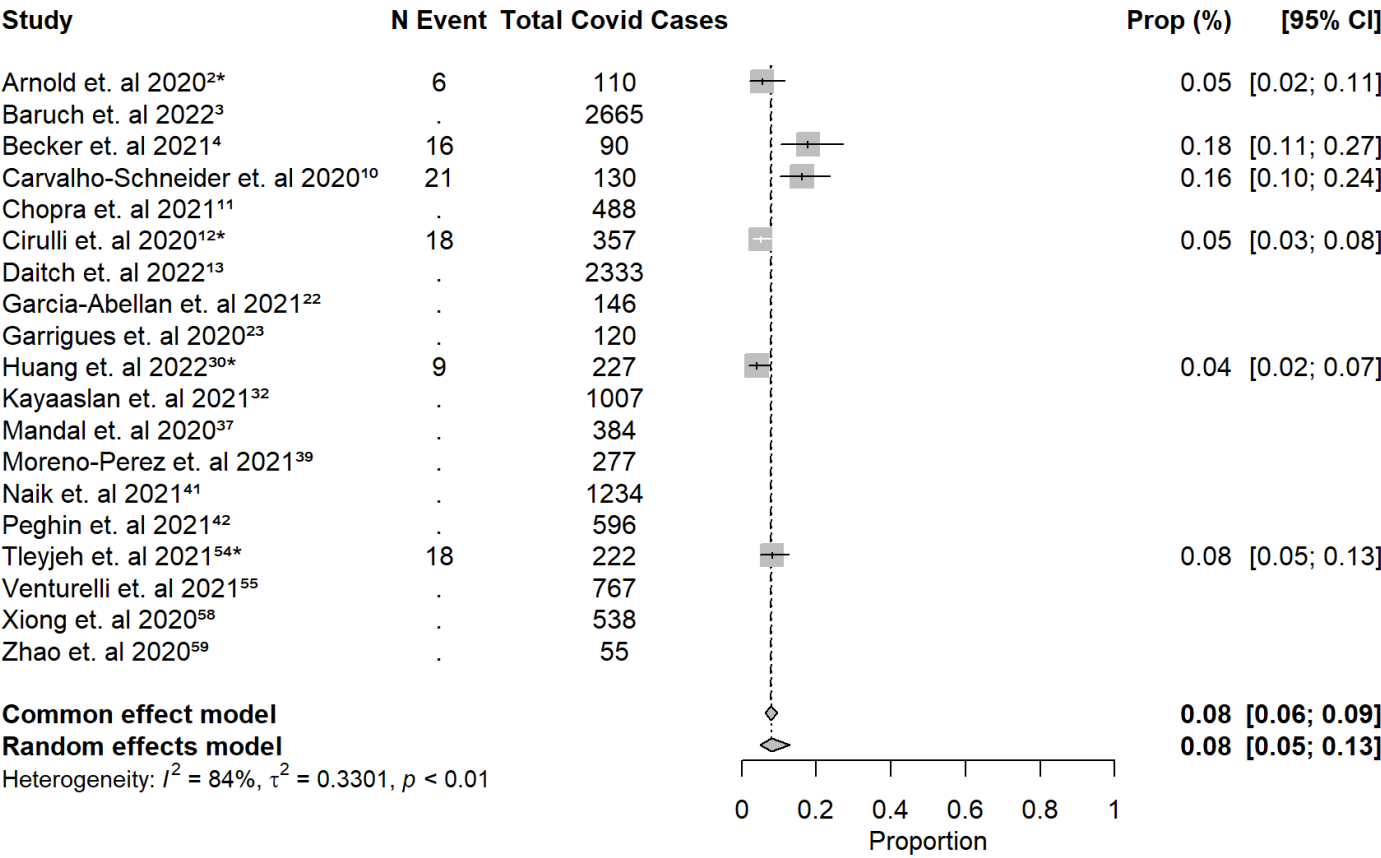
Analysis 2  
Joint Muscle Pain: Risk of Bias High



\* indicates value estimated from a figure

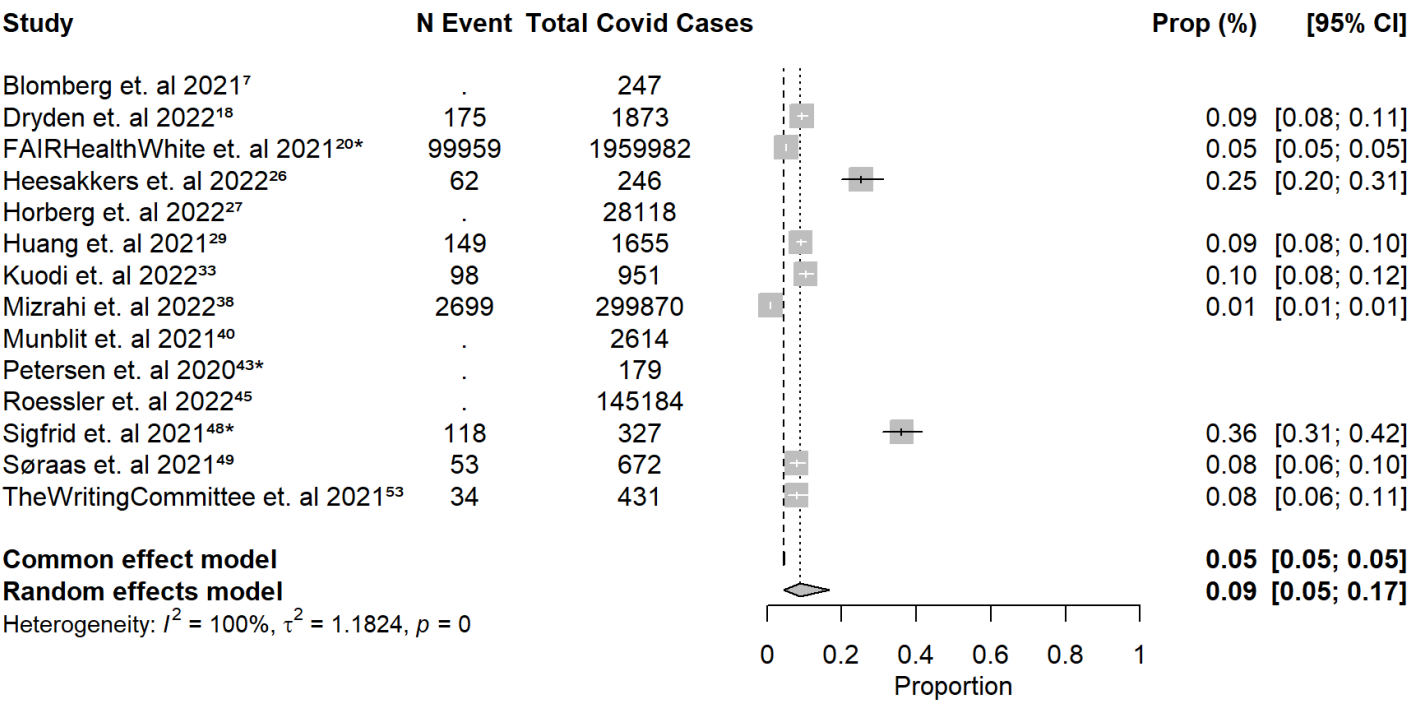


Analysis 2  
Joint Muscle Pain: Risk of Bias Moderate



\* indicates value estimated from a figure

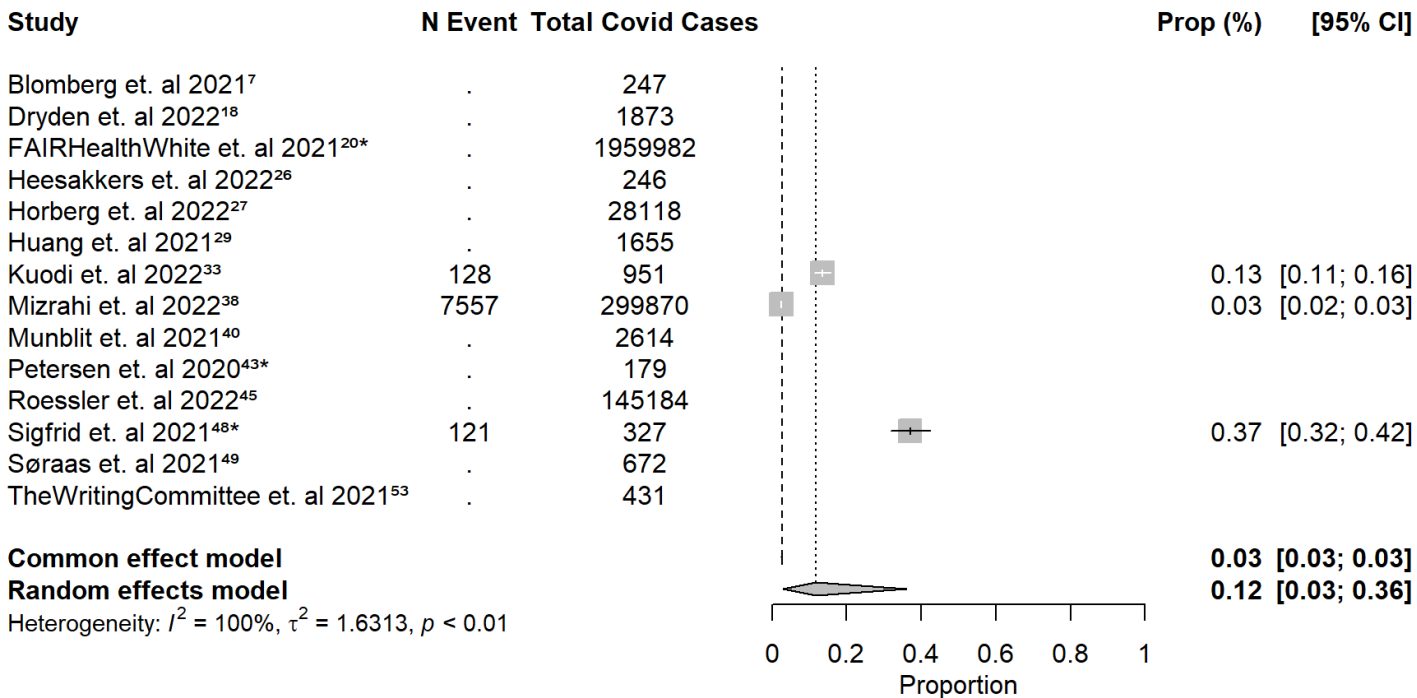
Analysis 2  
Joint Muscle Pain: Risk of Bias Low



\* indicates value estimated from a figure

# Weakness In Arms Or Legs:

## Analysis 2 Weakness In Arms Or Legs: Risk of Bias Low

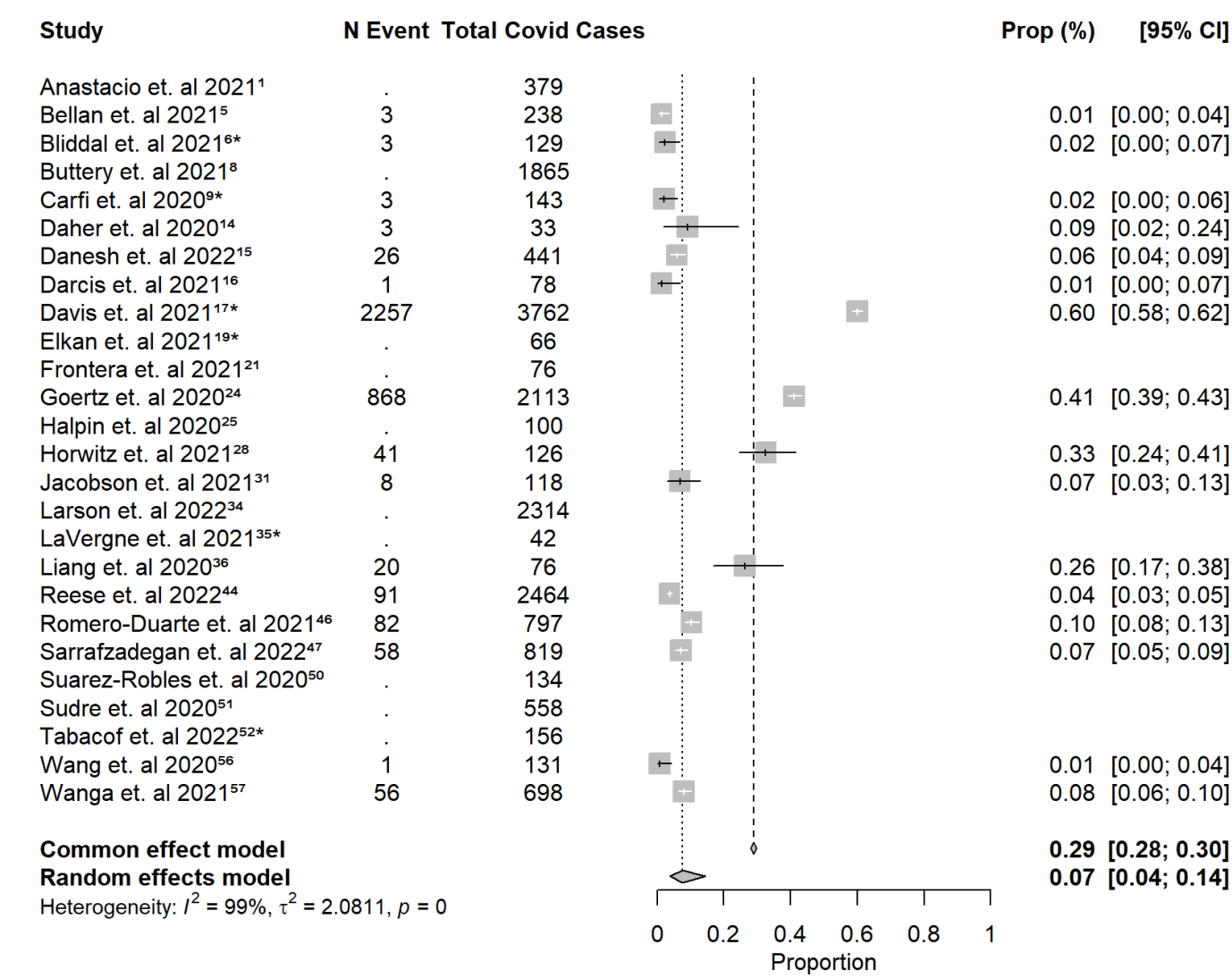


\* indicates value estimated from a figure

# Gi Symptoms Including Abdominal Pain:

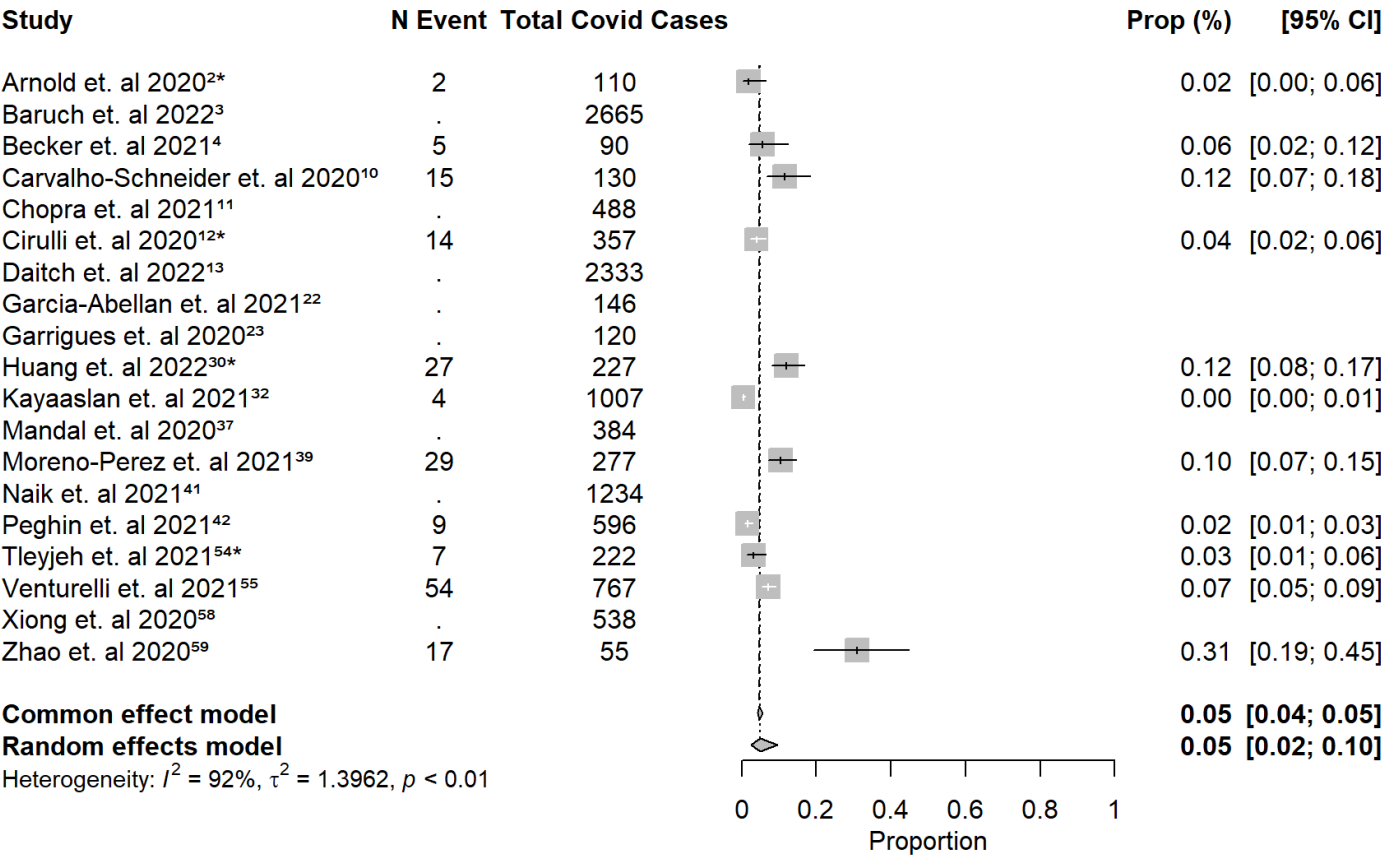
## Analysis 2

### Gi Symptoms Including Abdominal Pain: Risk of Bias High



## Analysis 2

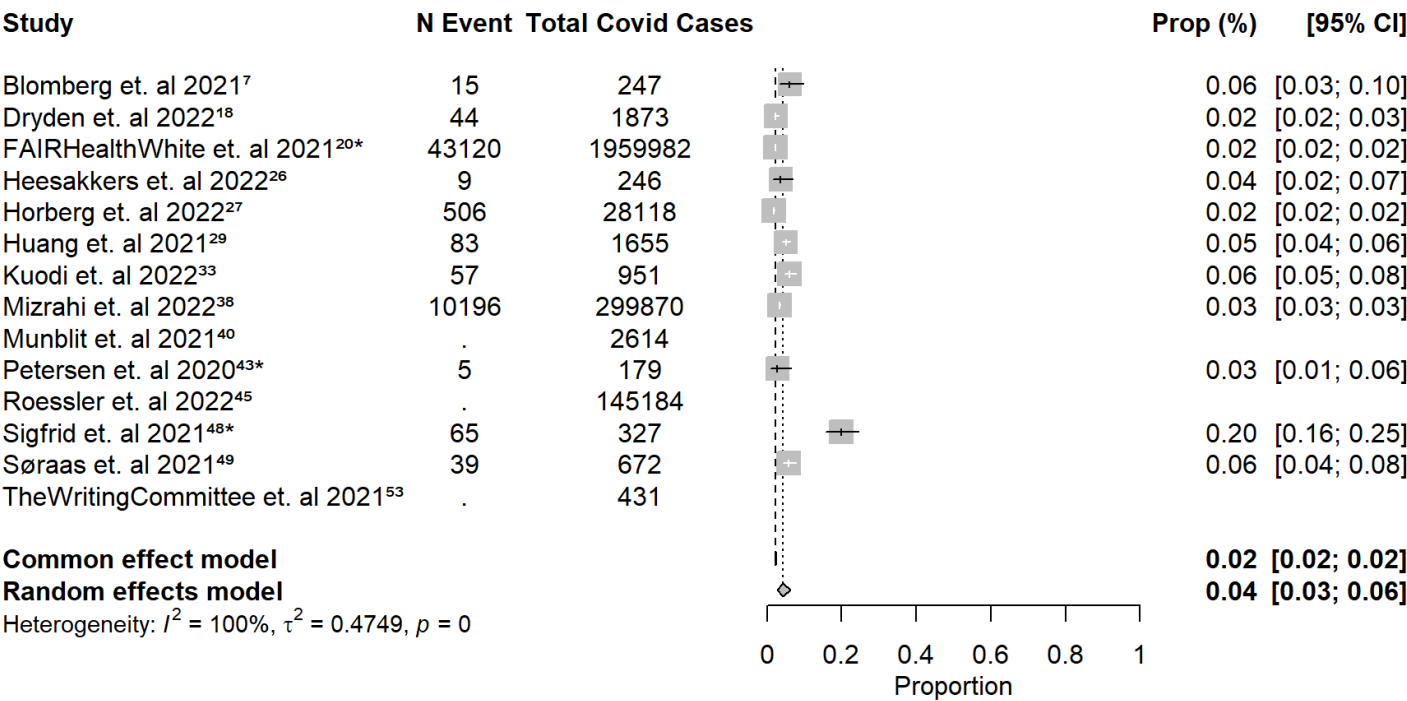
### Gi Symptoms Including Abdominal Pain: Risk of Bias Moderate



\* indicates value estimated from a figure

Analysis 2

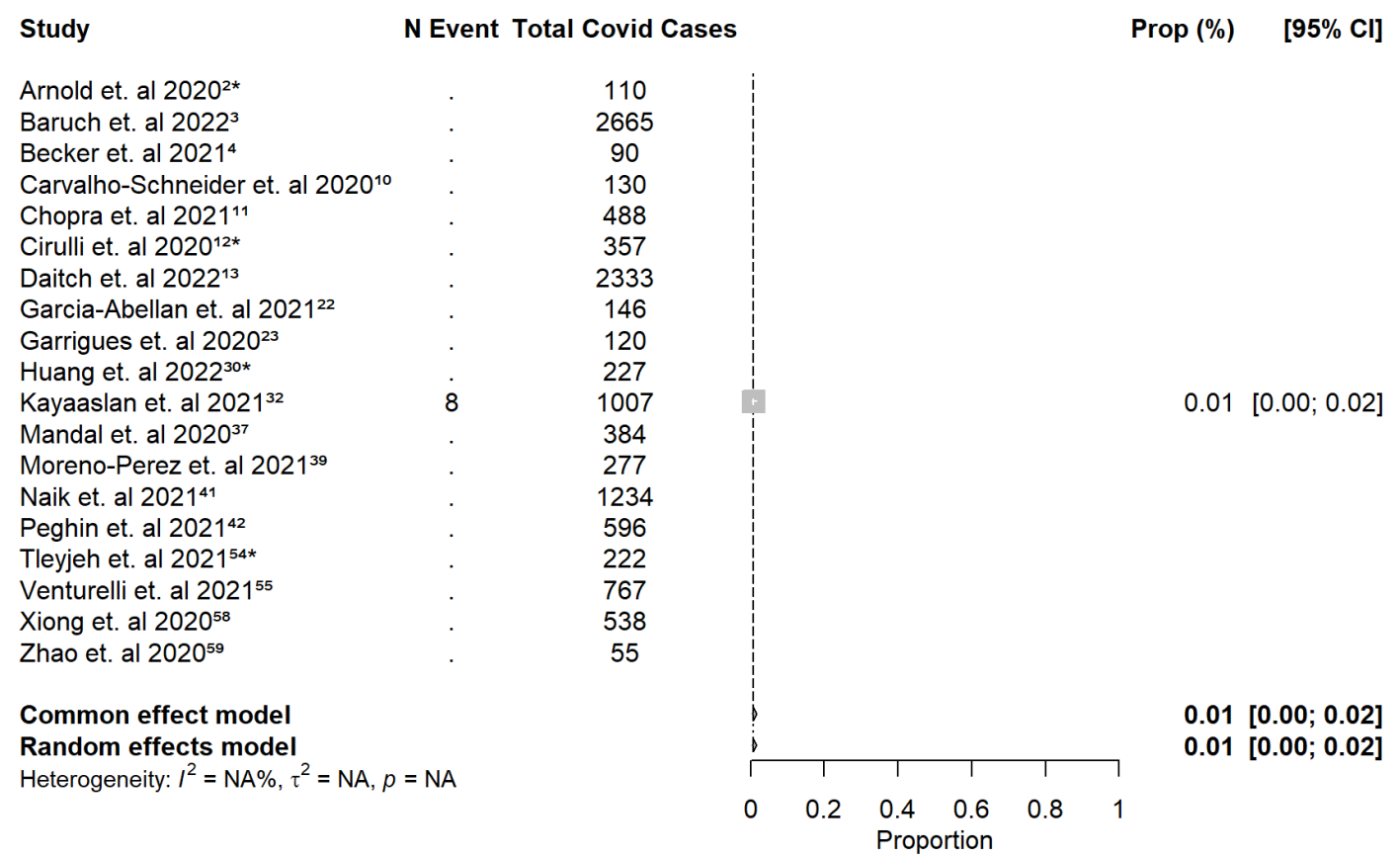
Gi Symptoms Including Abdominal Pain: Risk of Bias Low



\* indicates value estimated from a figure

Urinary Symptoms:

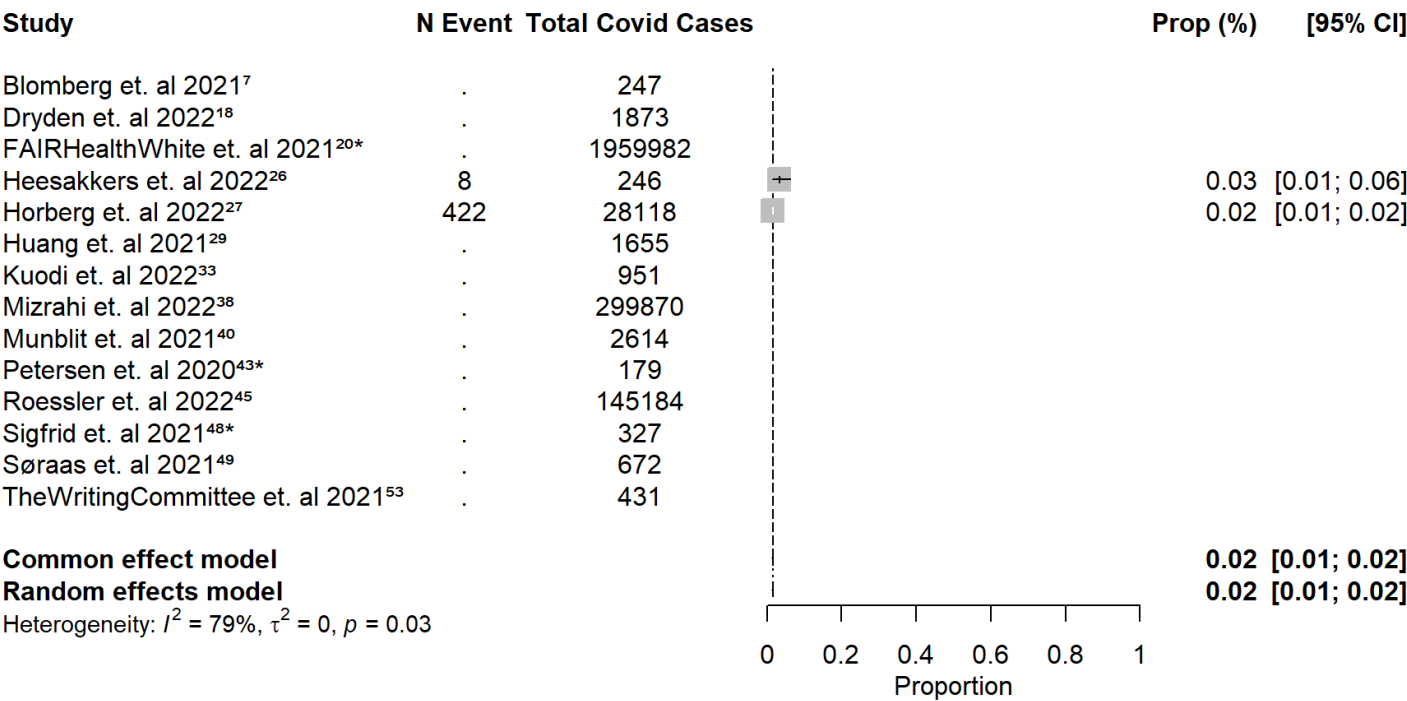
Analysis 2  
Urinary Symptoms: Risk of Bias Moderate



\* indicates value estimated from a figure

Analysis 2

Urinary Symptoms: Risk of Bias Low

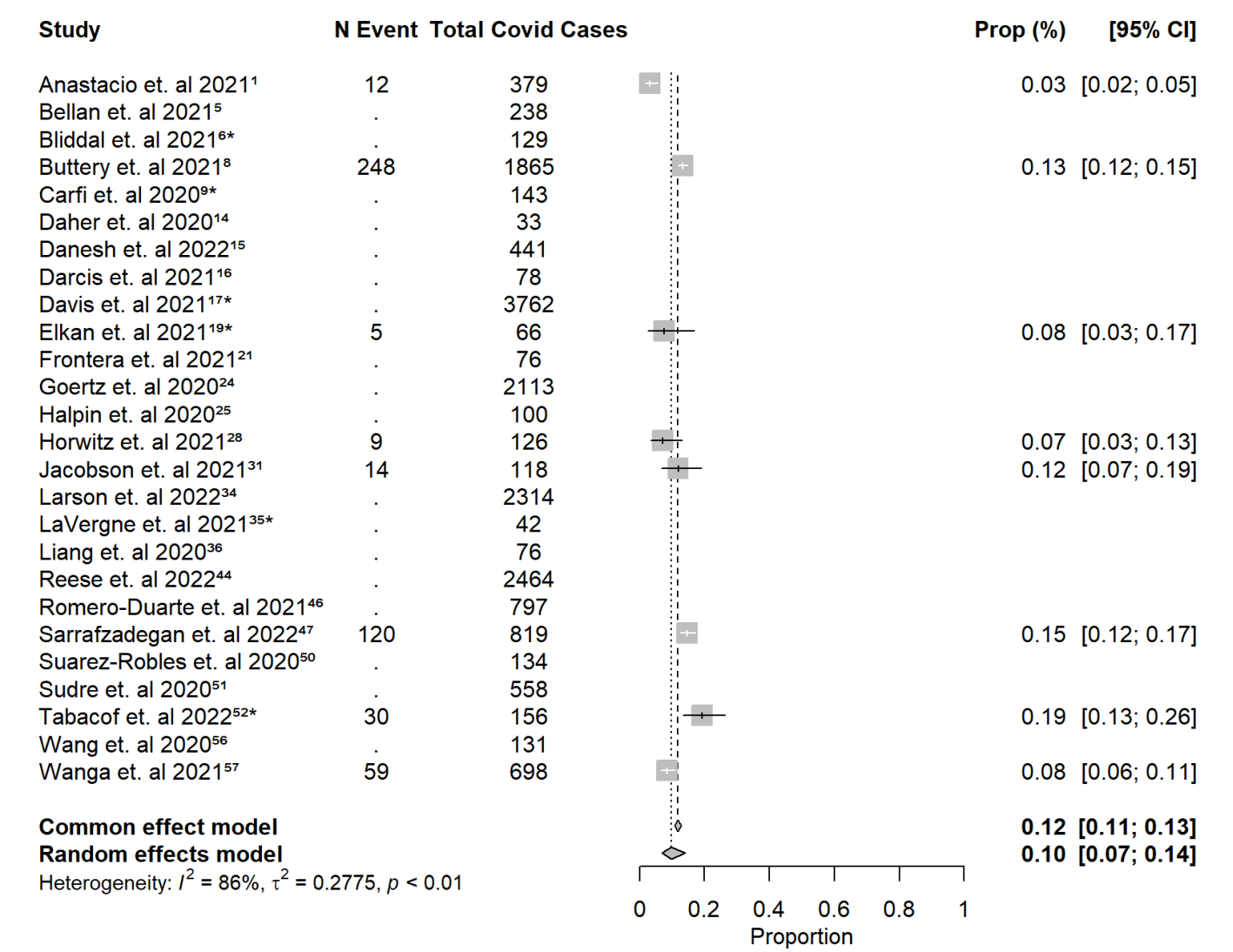


\* indicates value estimated from a figure



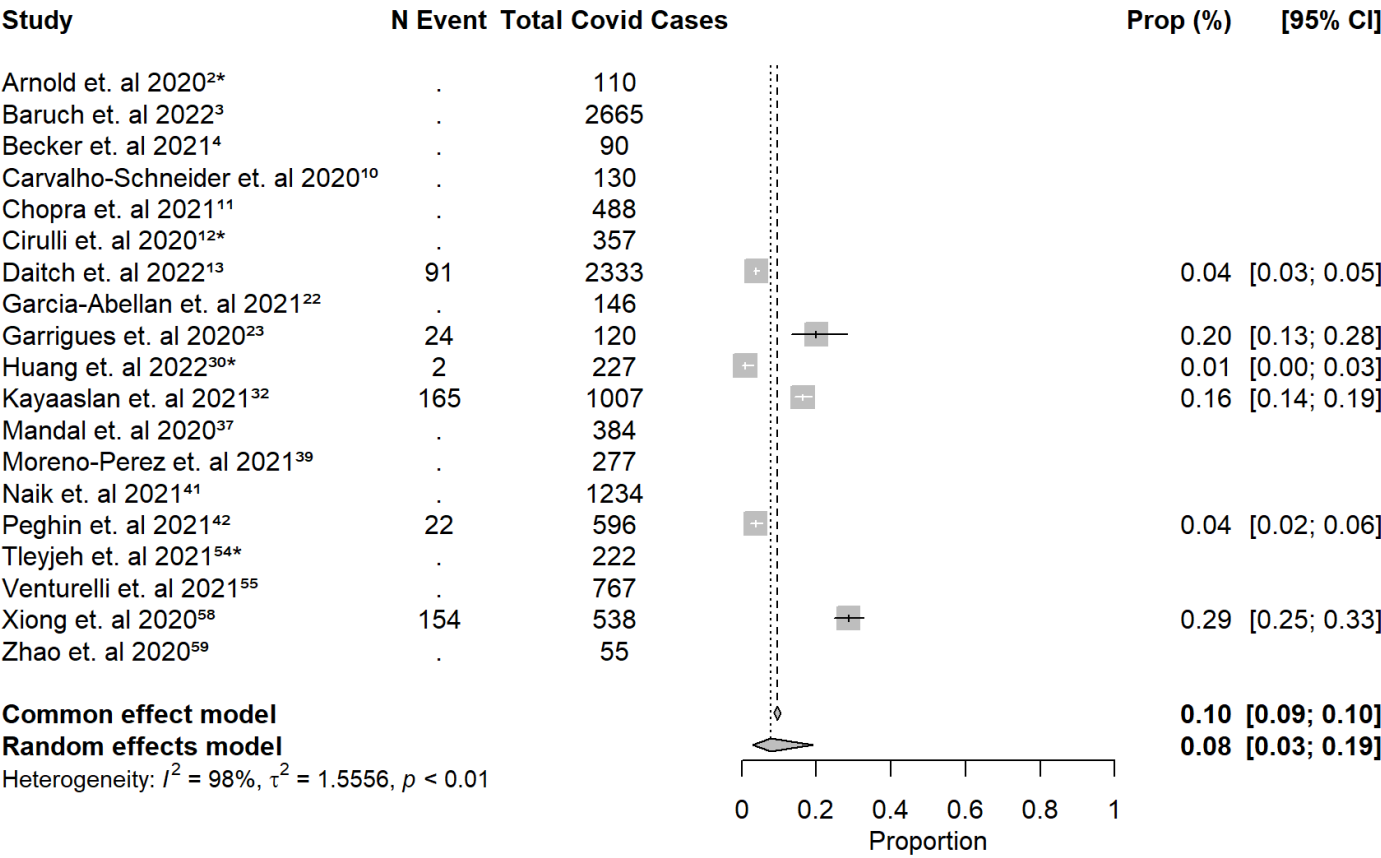
Hair Loss:

Analysis 2  
Hair Loss: Risk of Bias High



\* indicates value estimated from a figure

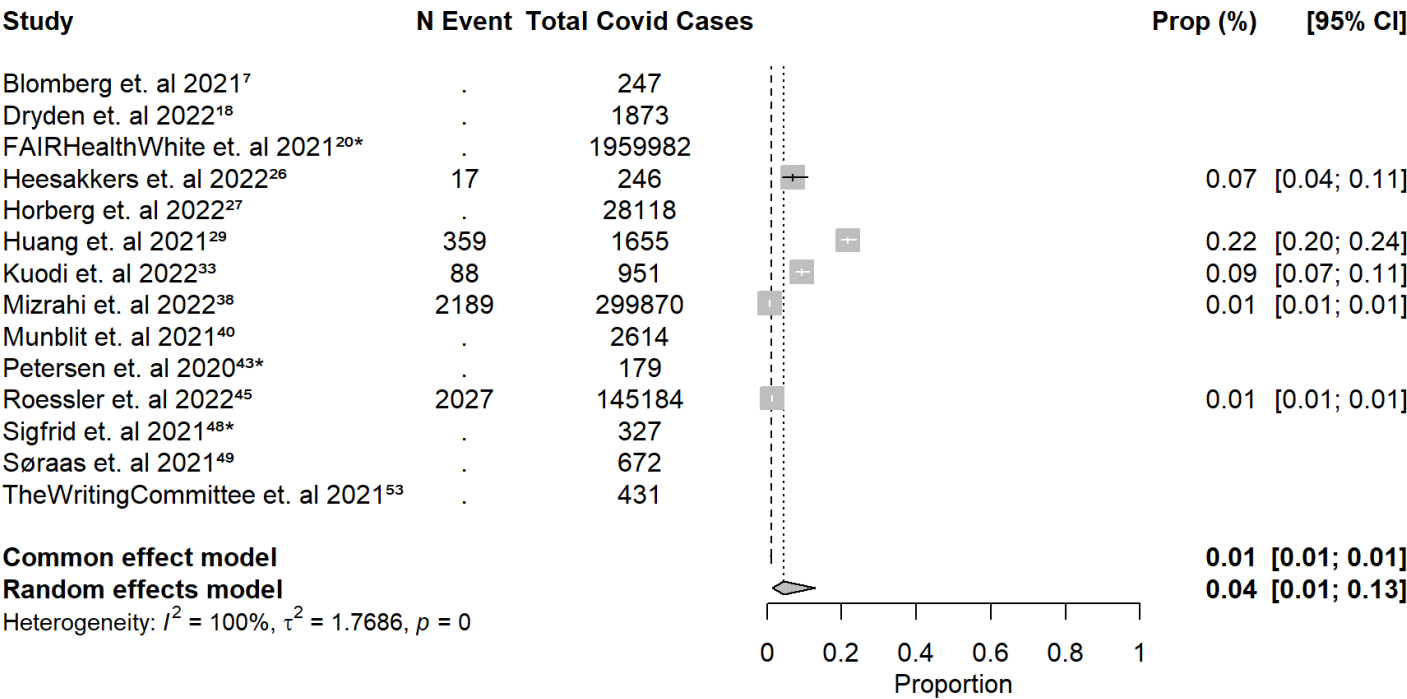
Analysis 2  
Hair Loss: Risk of Bias Moderate



\* indicates value estimated from a figure

Analysis 2

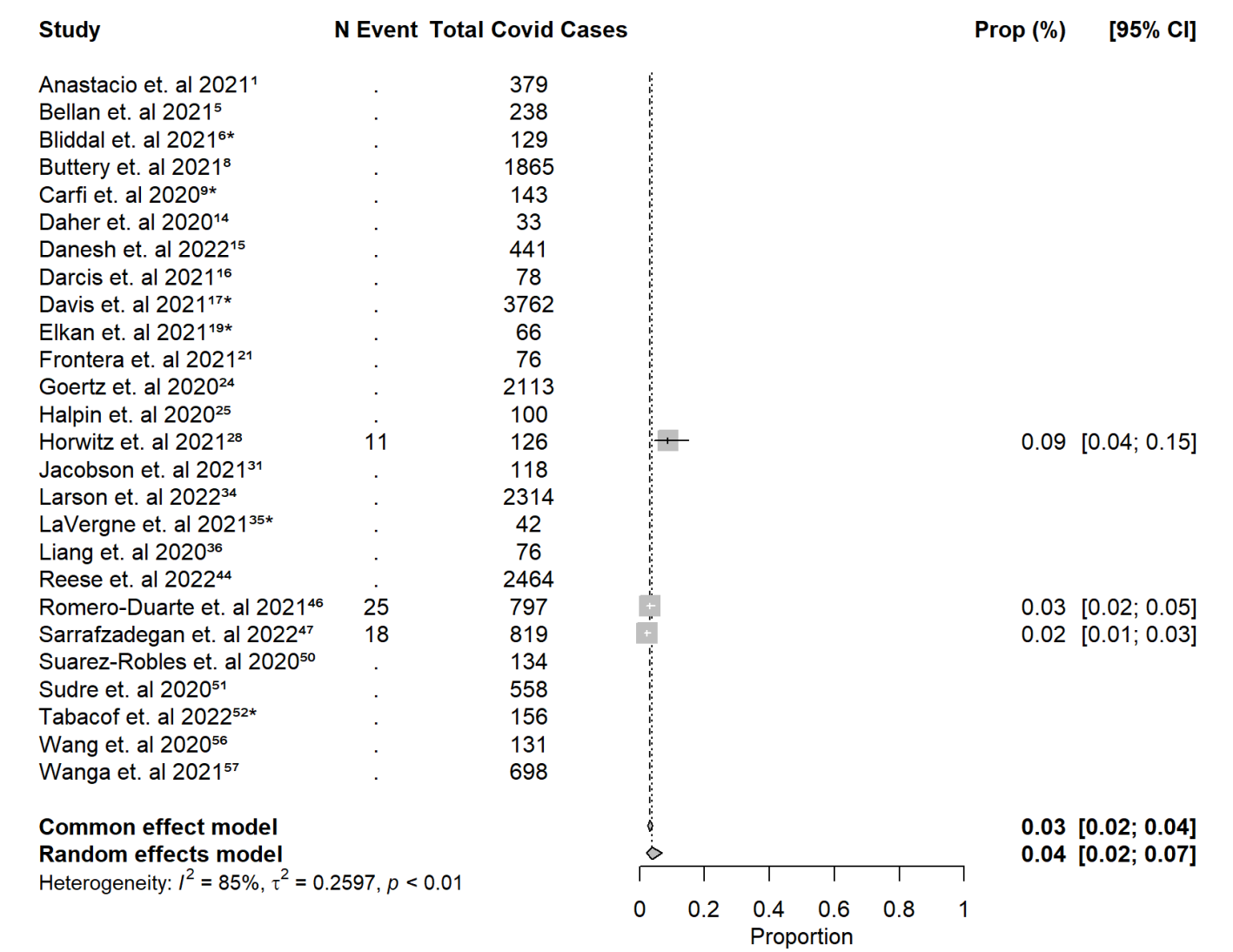
Hair Loss: Risk of Bias Low



\* indicates value estimated from a figure

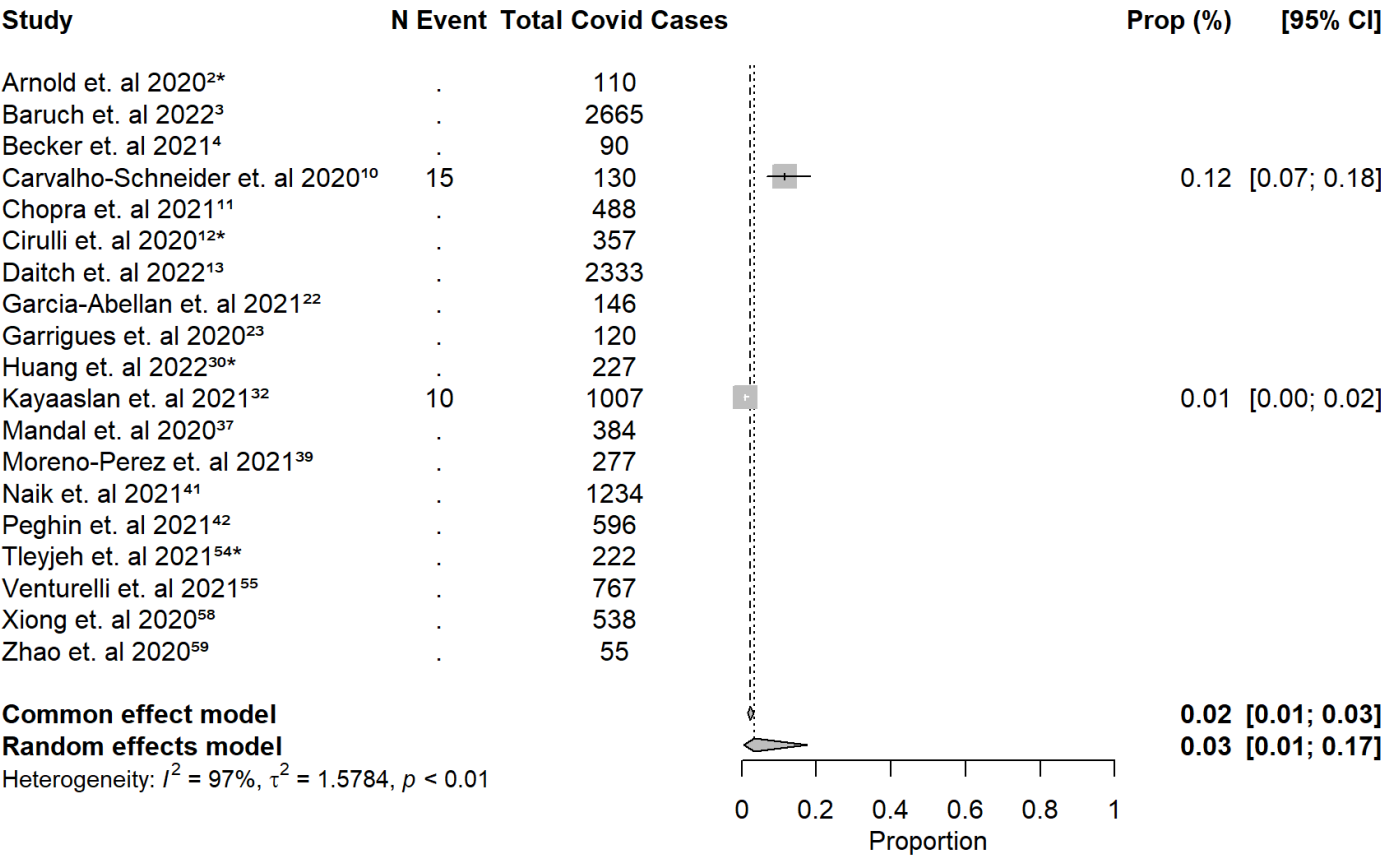
Skin Rash:

Analysis 2  
Skin Rash: Risk of Bias High



\* indicates value estimated from a figure

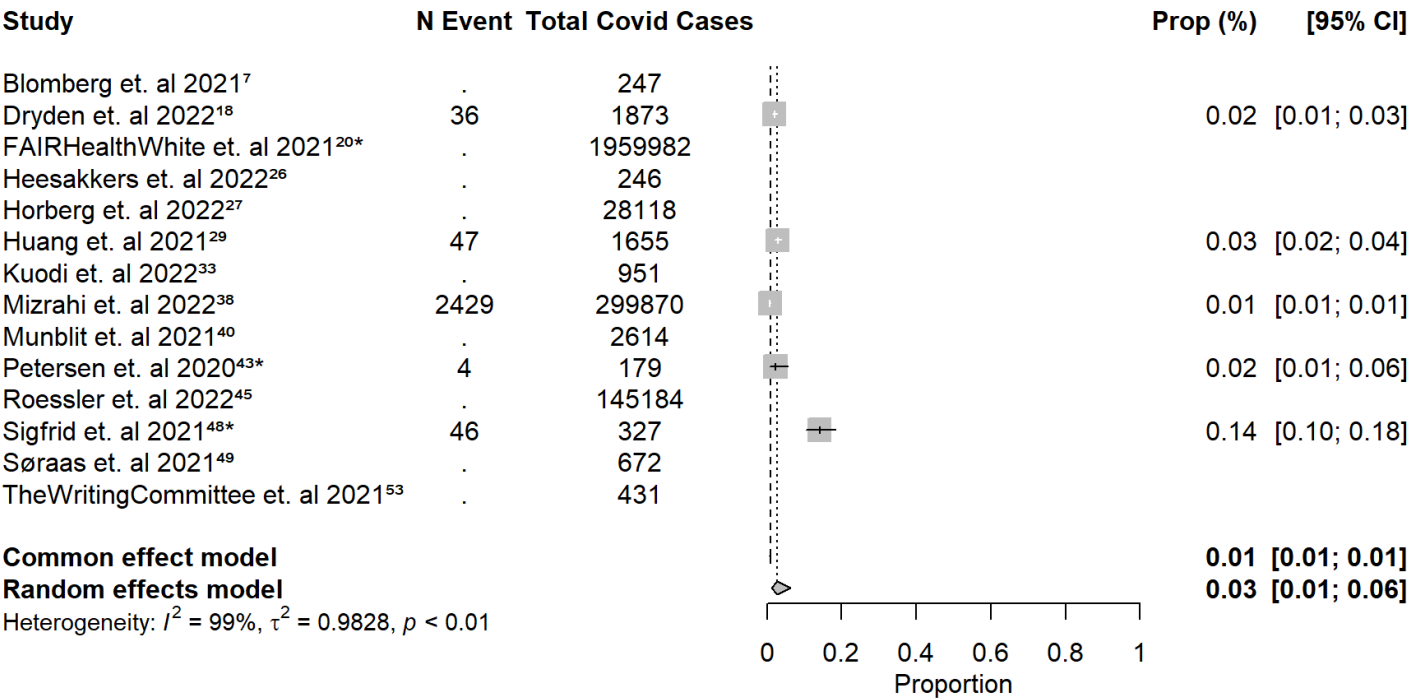
Analysis 2  
Skin Rash: Risk of Bias Moderate



\* indicates value estimated from a figure

Analysis 2

Skin Rash: Risk of Bias Low

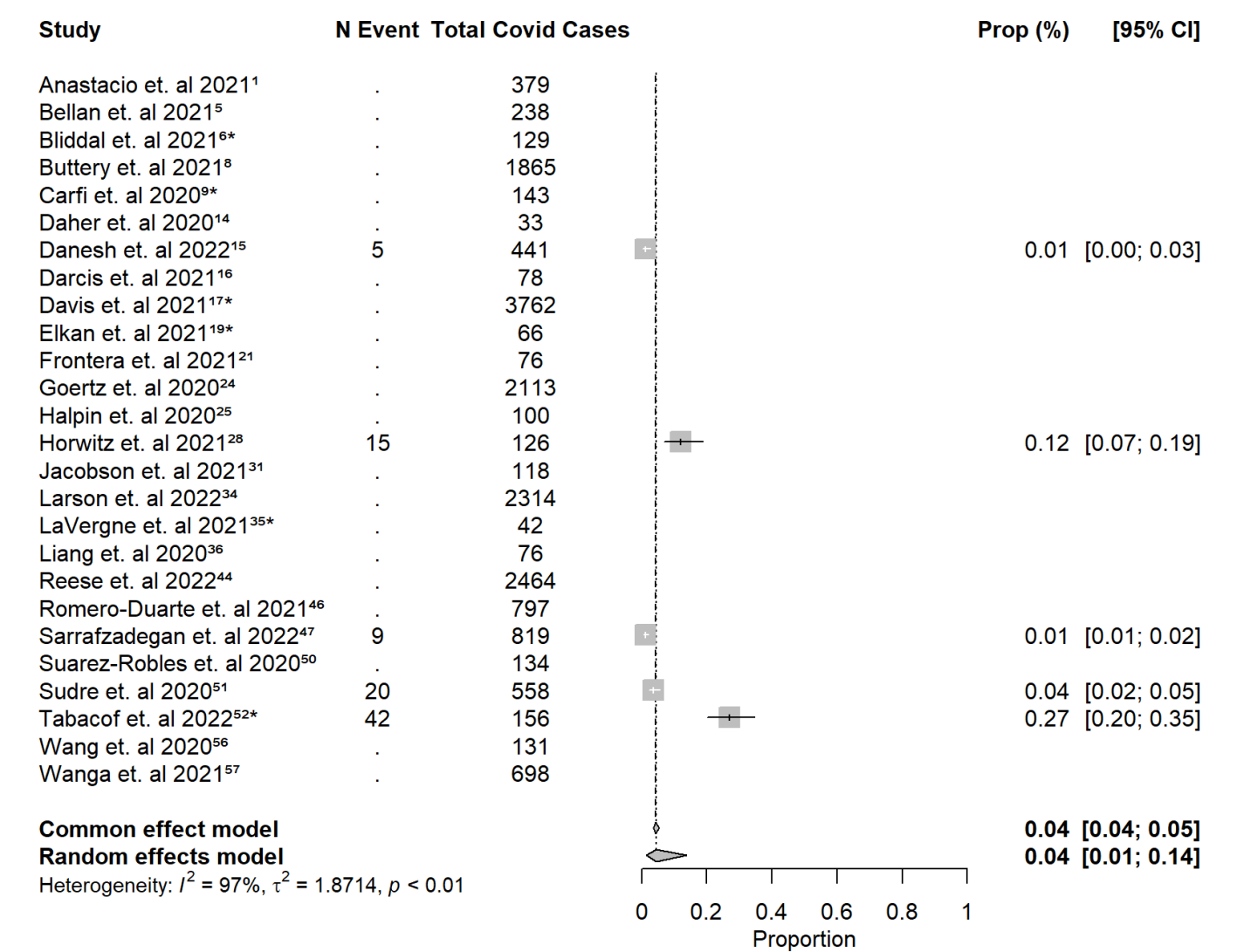


\* indicates value estimated from a figure

# Hearing Problems:

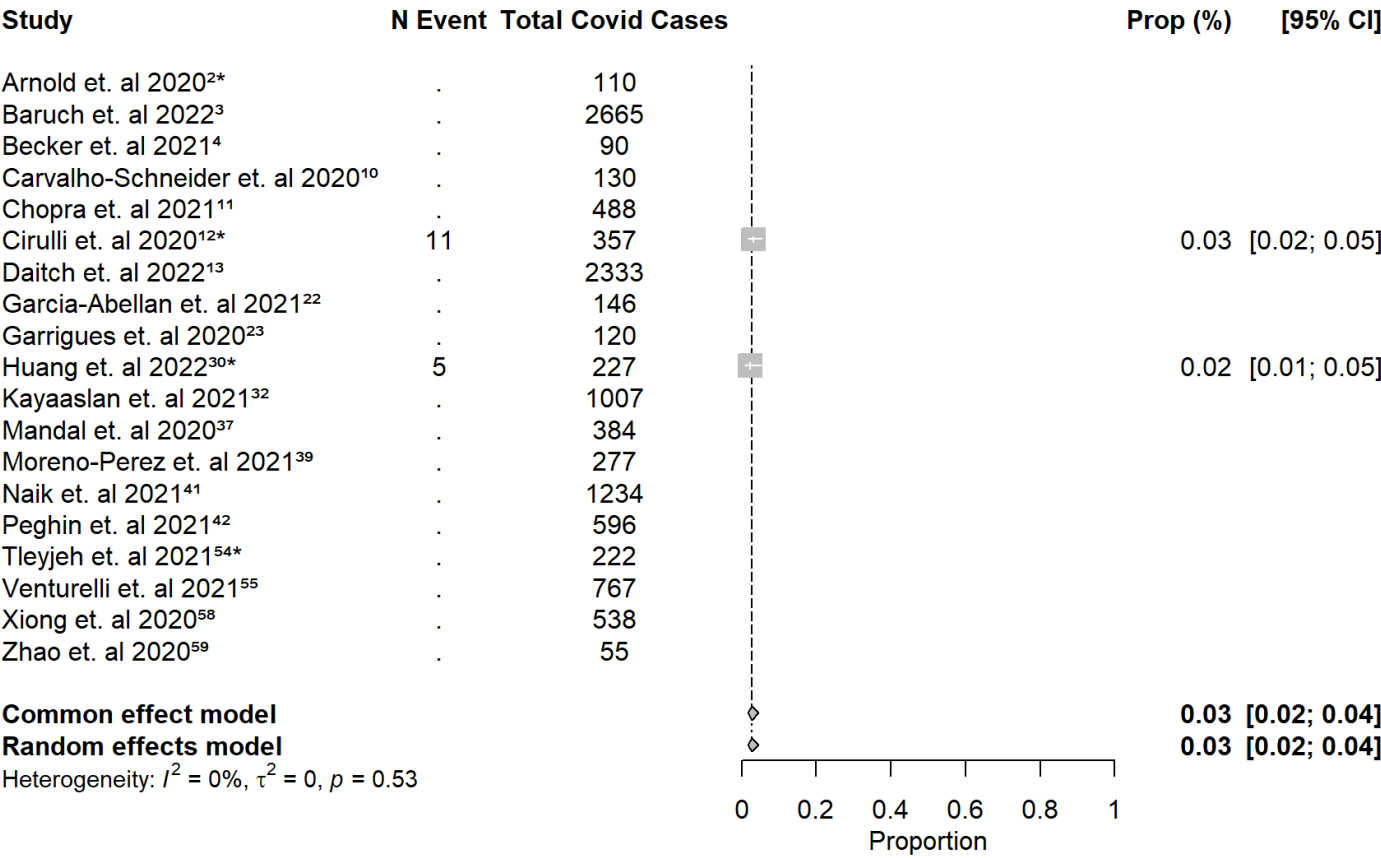
## Analysis 2

### Hearing Problems: Risk of Bias High



\* indicates value estimated from a figure

Analysis 2  
Hearing Problems: Risk of Bias Moderate

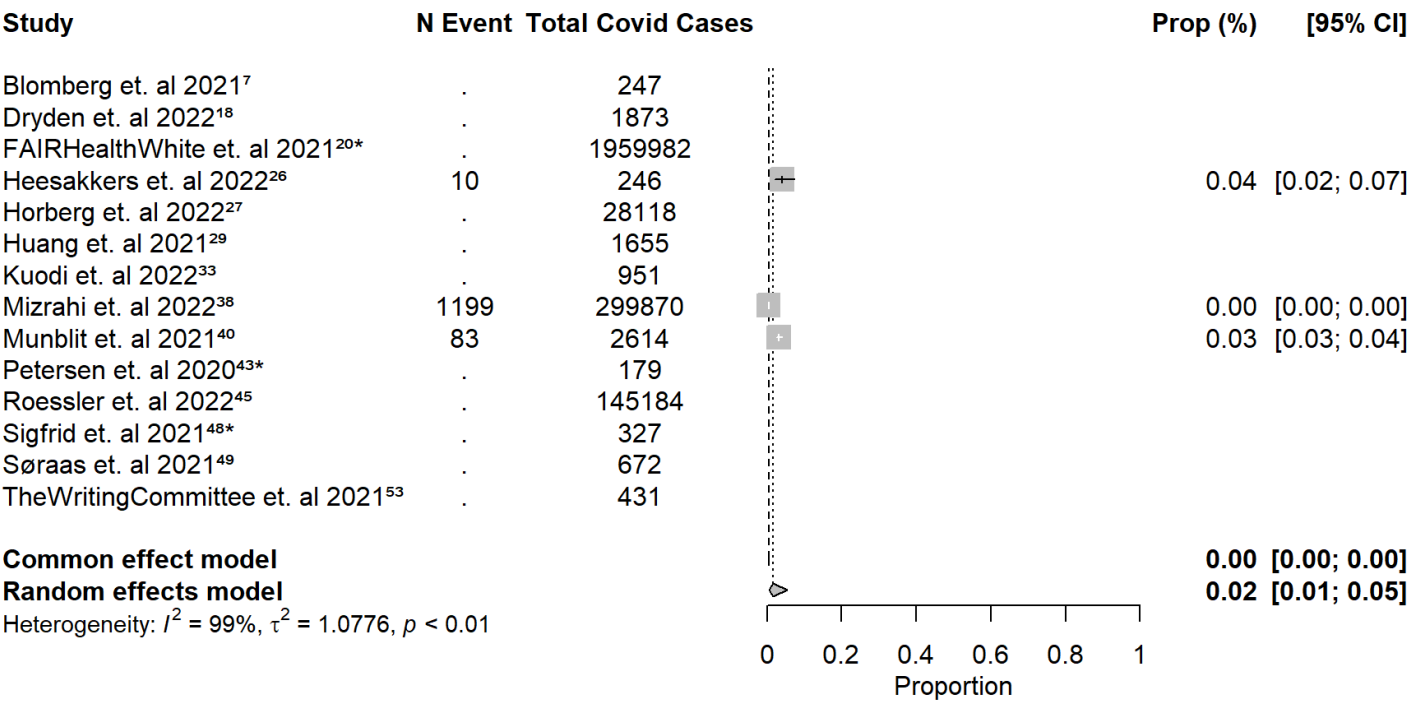


\* indicates value estimated from a figure



Analysis 2

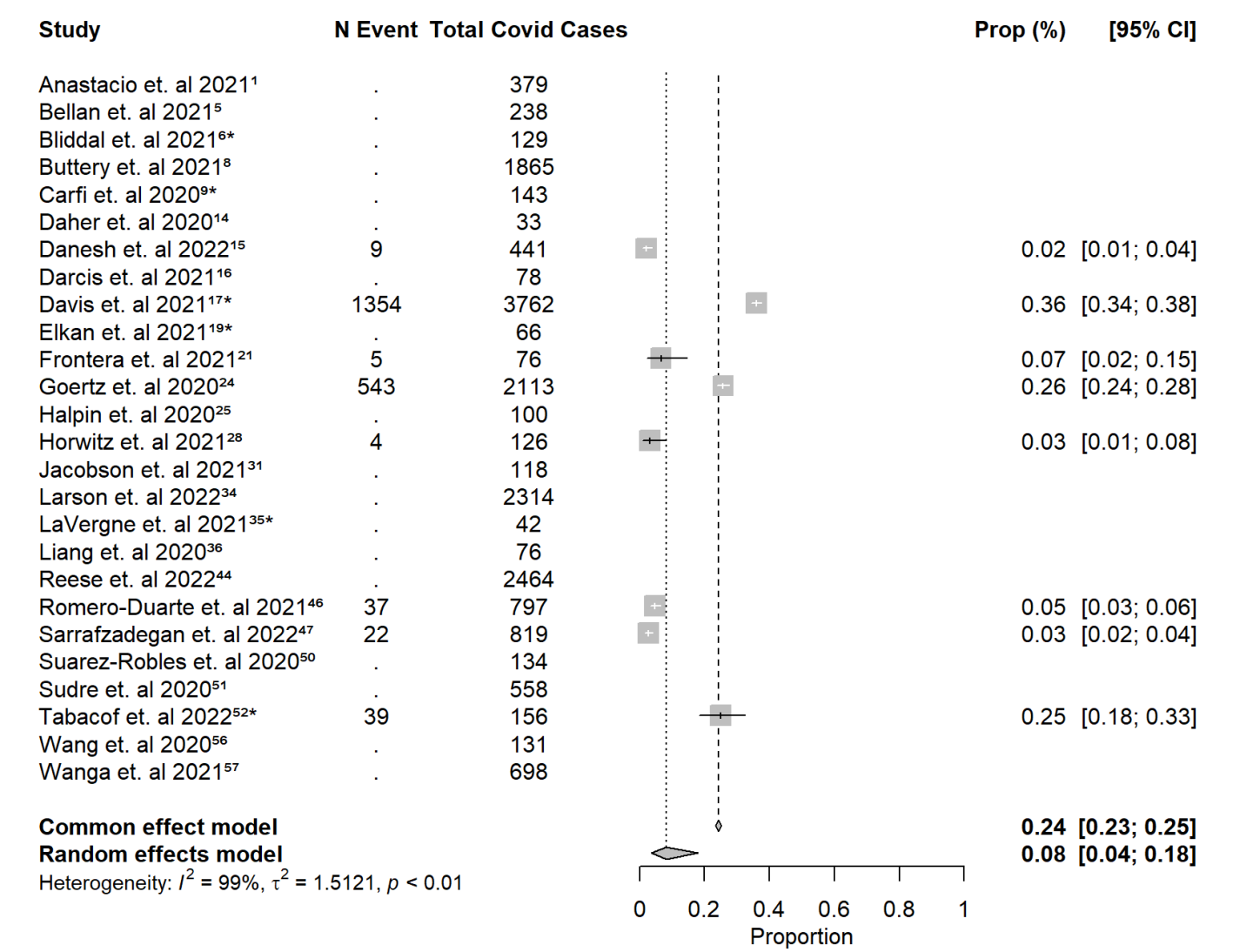
Hearing Problems: Risk of Bias Low



\* indicates value estimated from a figure

Vision Problems:

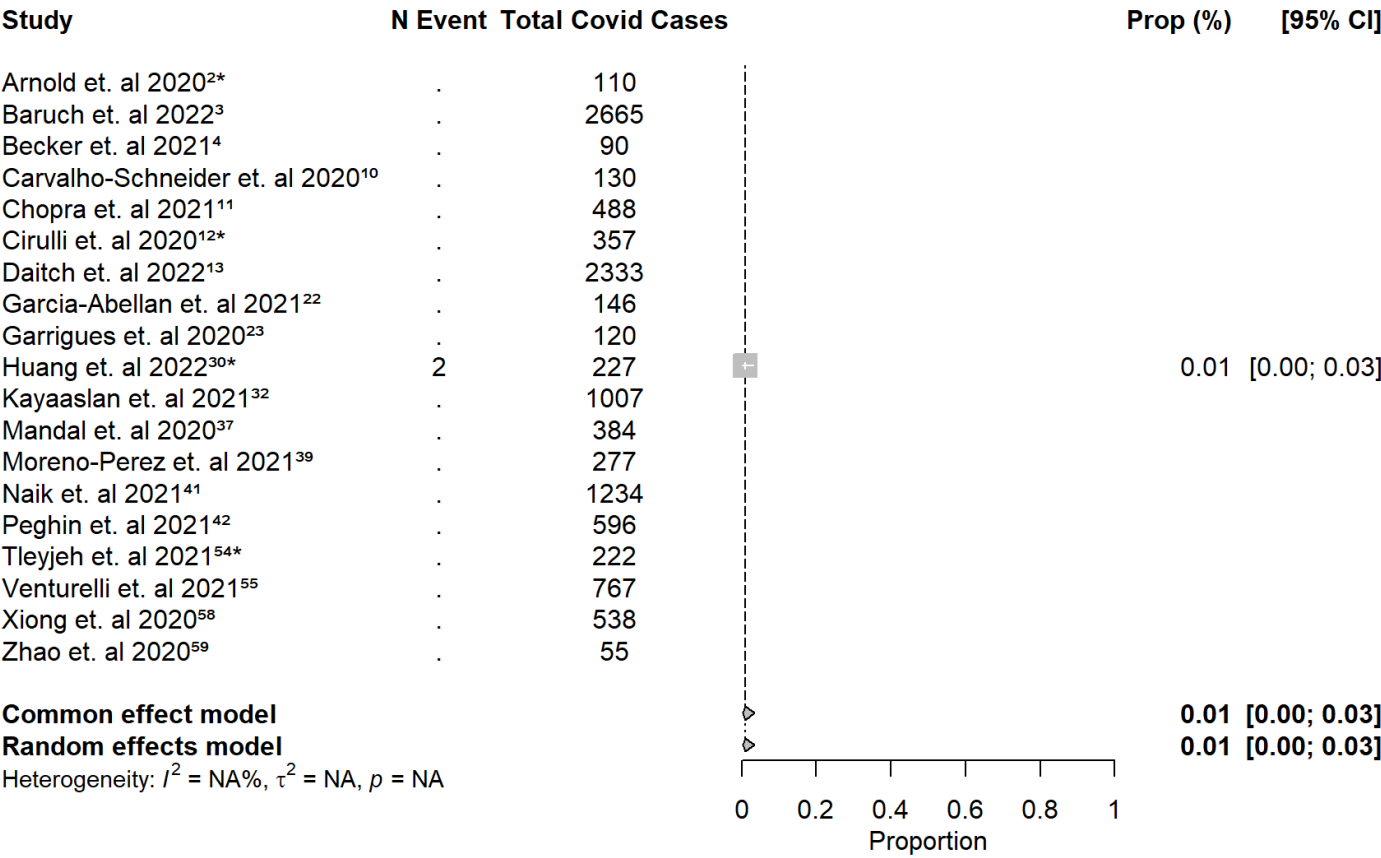
Analysis 2  
Vision Problems: Risk of Bias High



\* indicates value estimated from a figure

Analysis 2

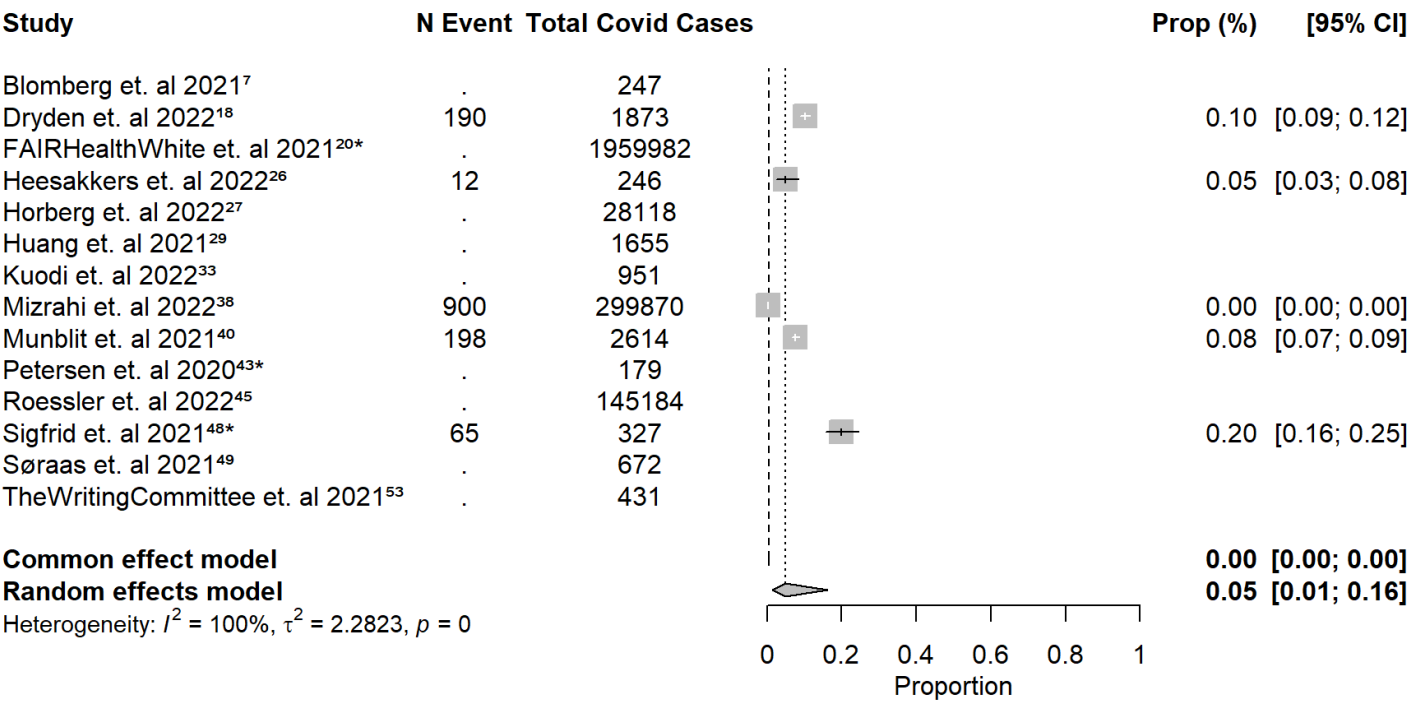
Vision Problems: Risk of Bias Moderate



\* indicates value estimated from a figure

Analysis 2

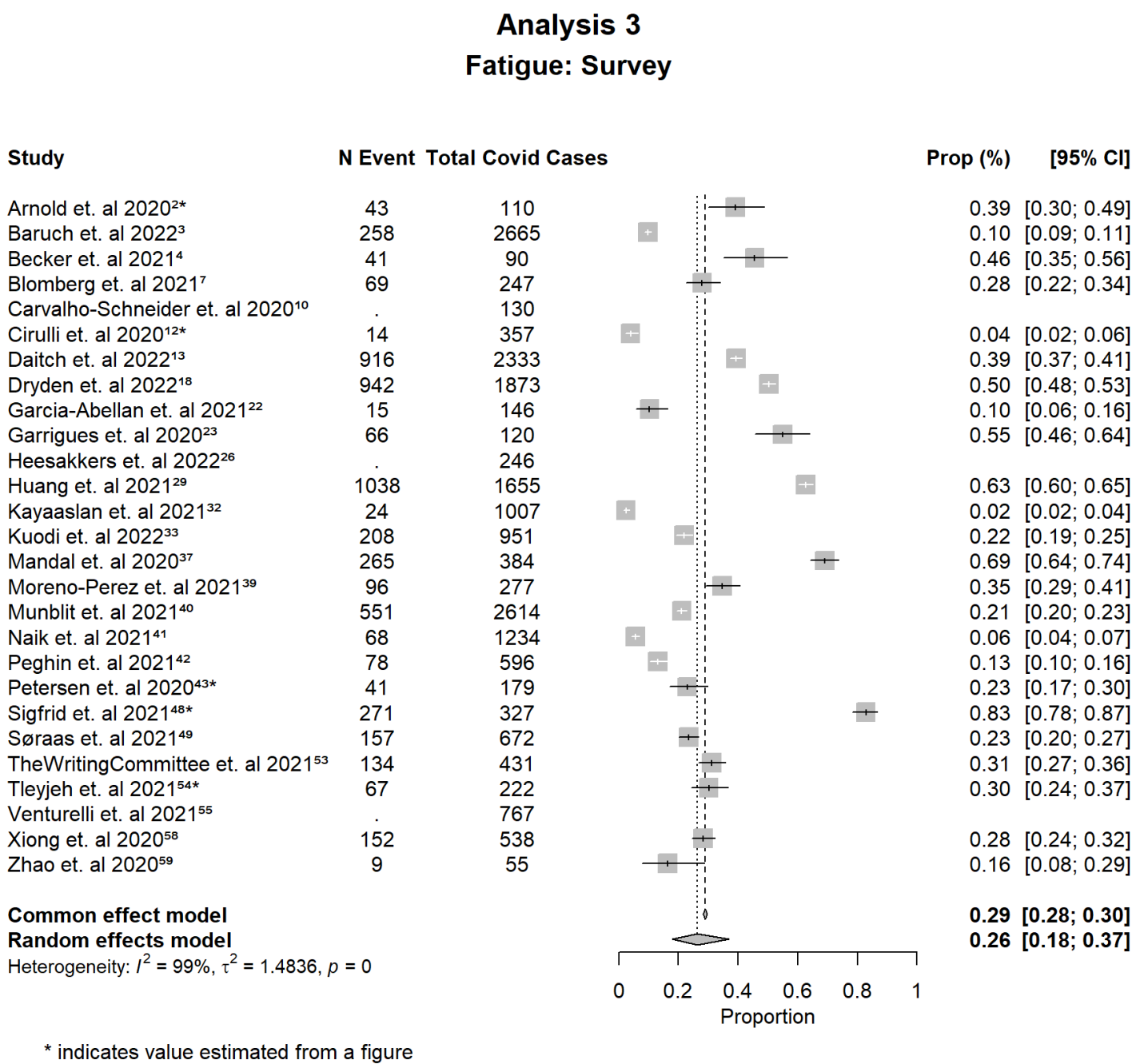
Vision Problems: Risk of Bias Low



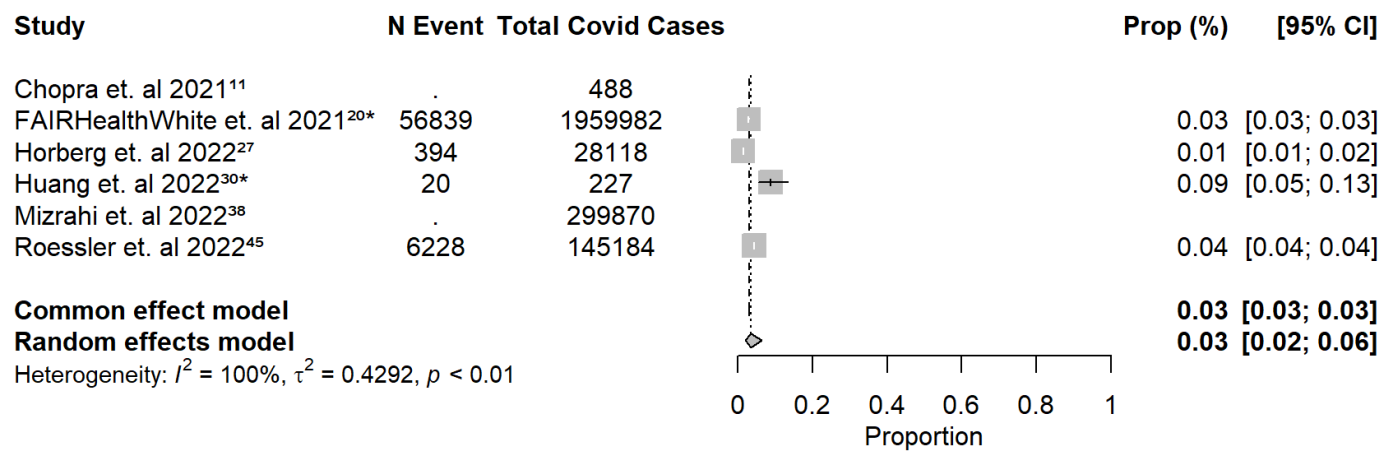
\* indicates value estimated from a figure

# Analysis 3, stratified by Survey, EHR

Fatigue:



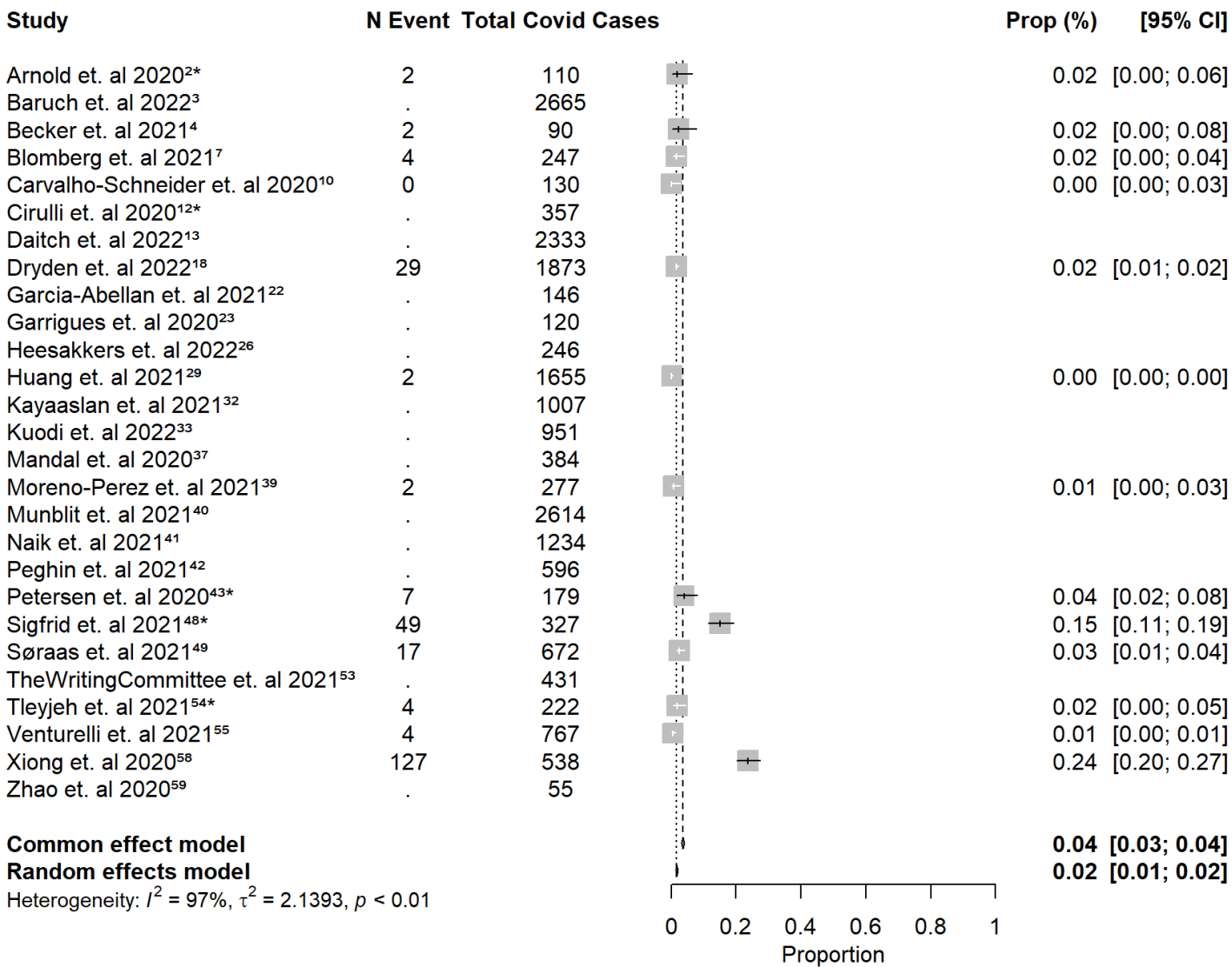
Analysis 3  
Fatigue: EHR



\* indicates value estimated from a figure

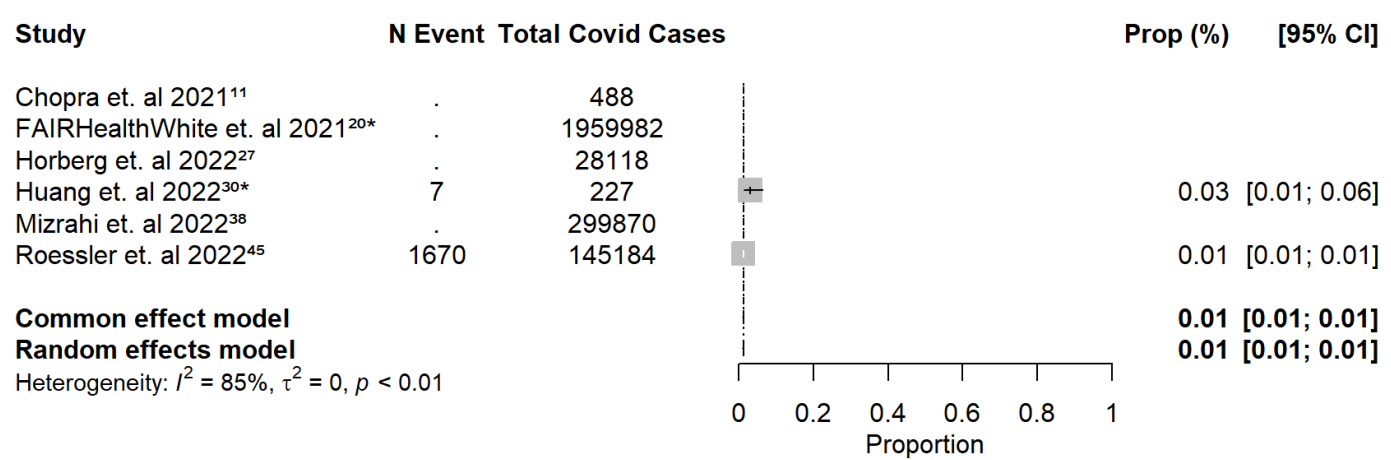
# Fever Chills Sweats Or Flushing:

Analysis 3  
Fever Chills Sweats Or Flushing: Survey



\* indicates value estimated from a figure

Analysis 3  
Fever Chills Sweats Or Flushing: EHR

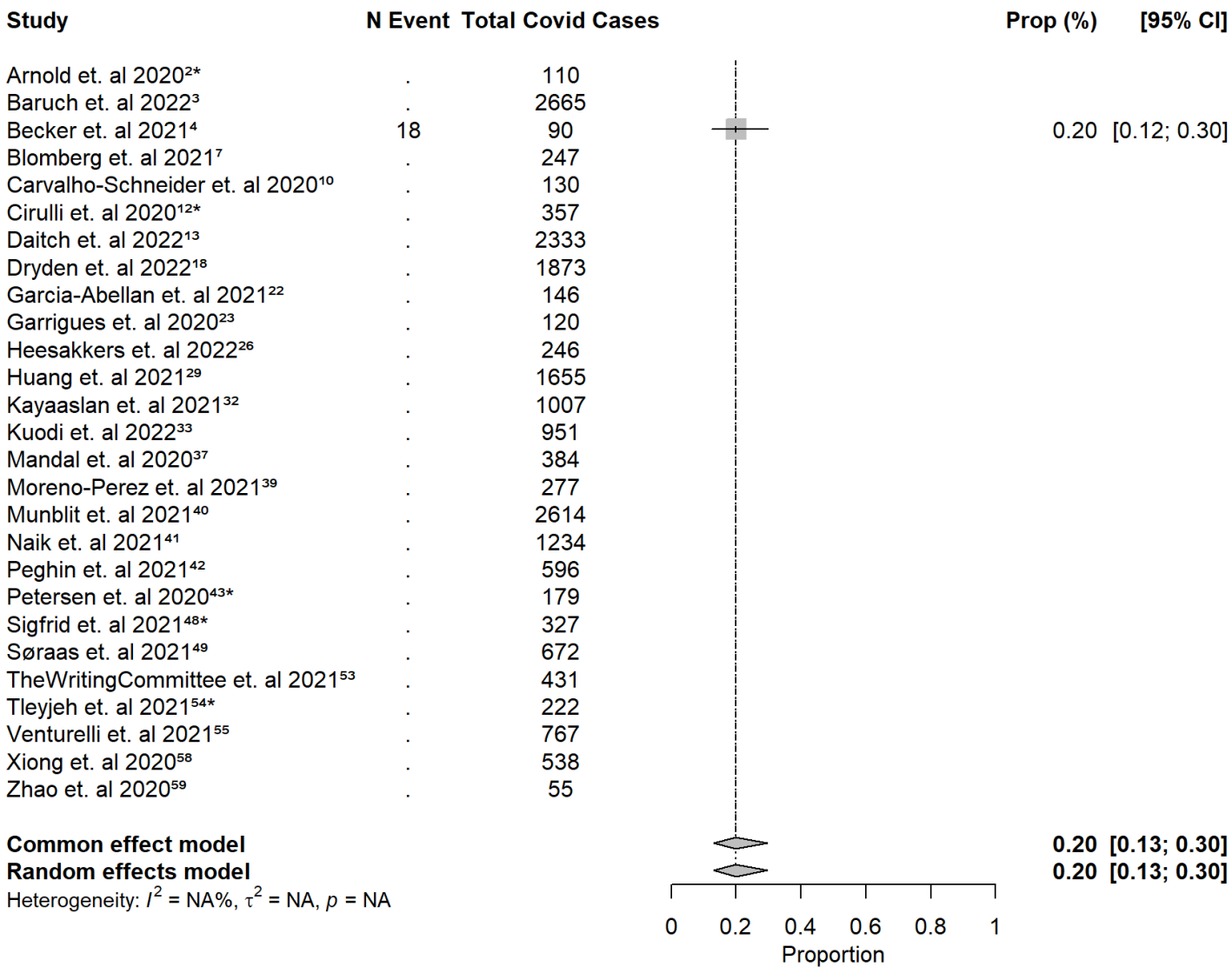


\* indicates value estimated from a figure



Post Exertional Malaise:

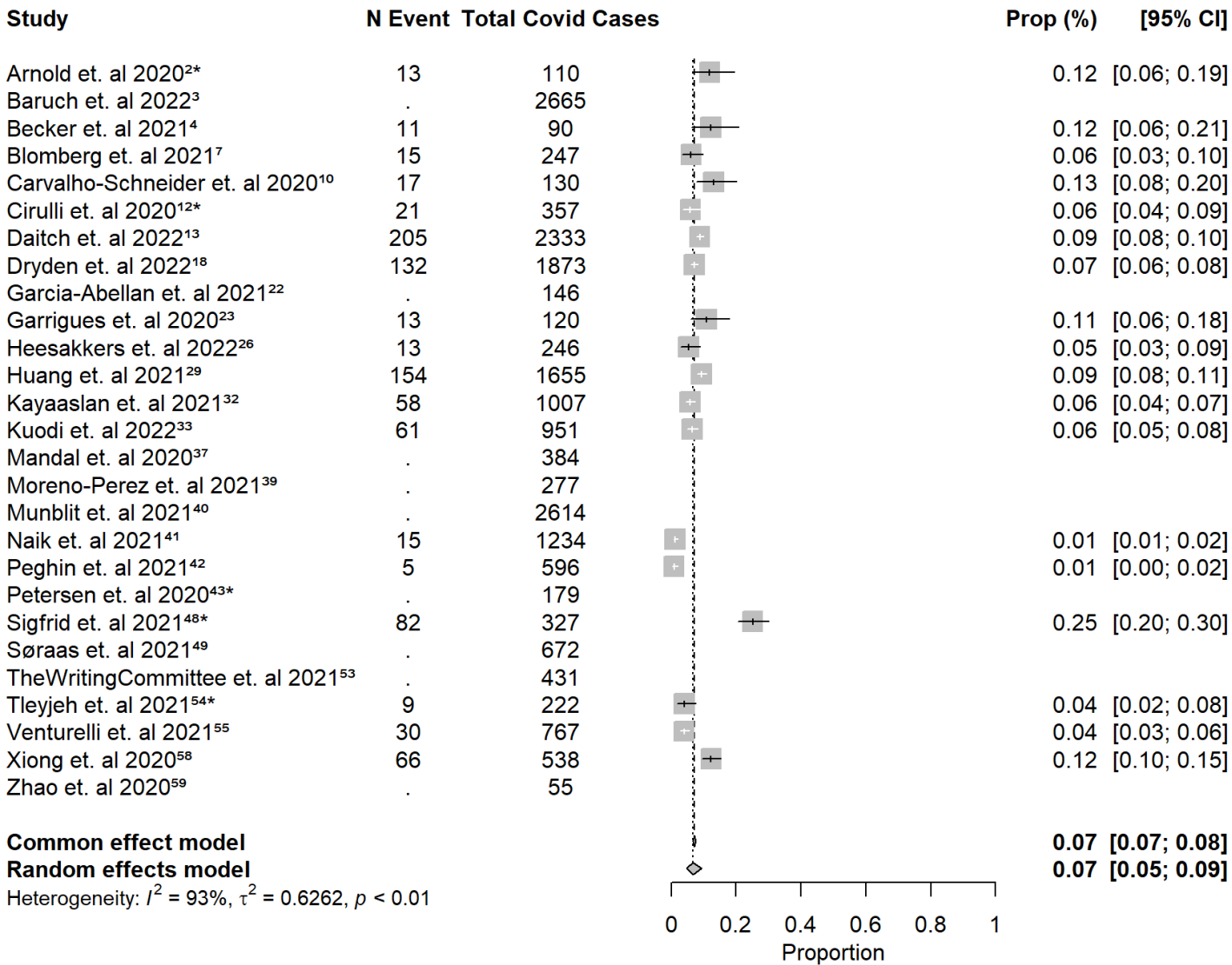
Analysis 3  
Post Exertional Malaise: Survey



\* indicates value estimated from a figure

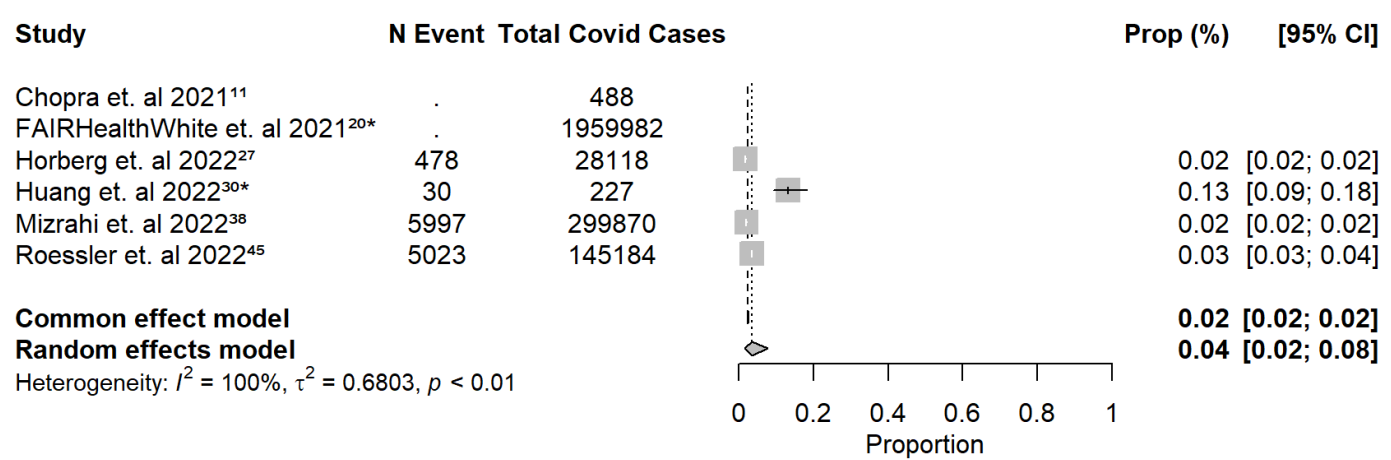
# Cardiac Symptoms Including Chest Pain:

## Analysis 3 Cardiac Symptoms Including Chest Pain: Survey



\* indicates value estimated from a figure

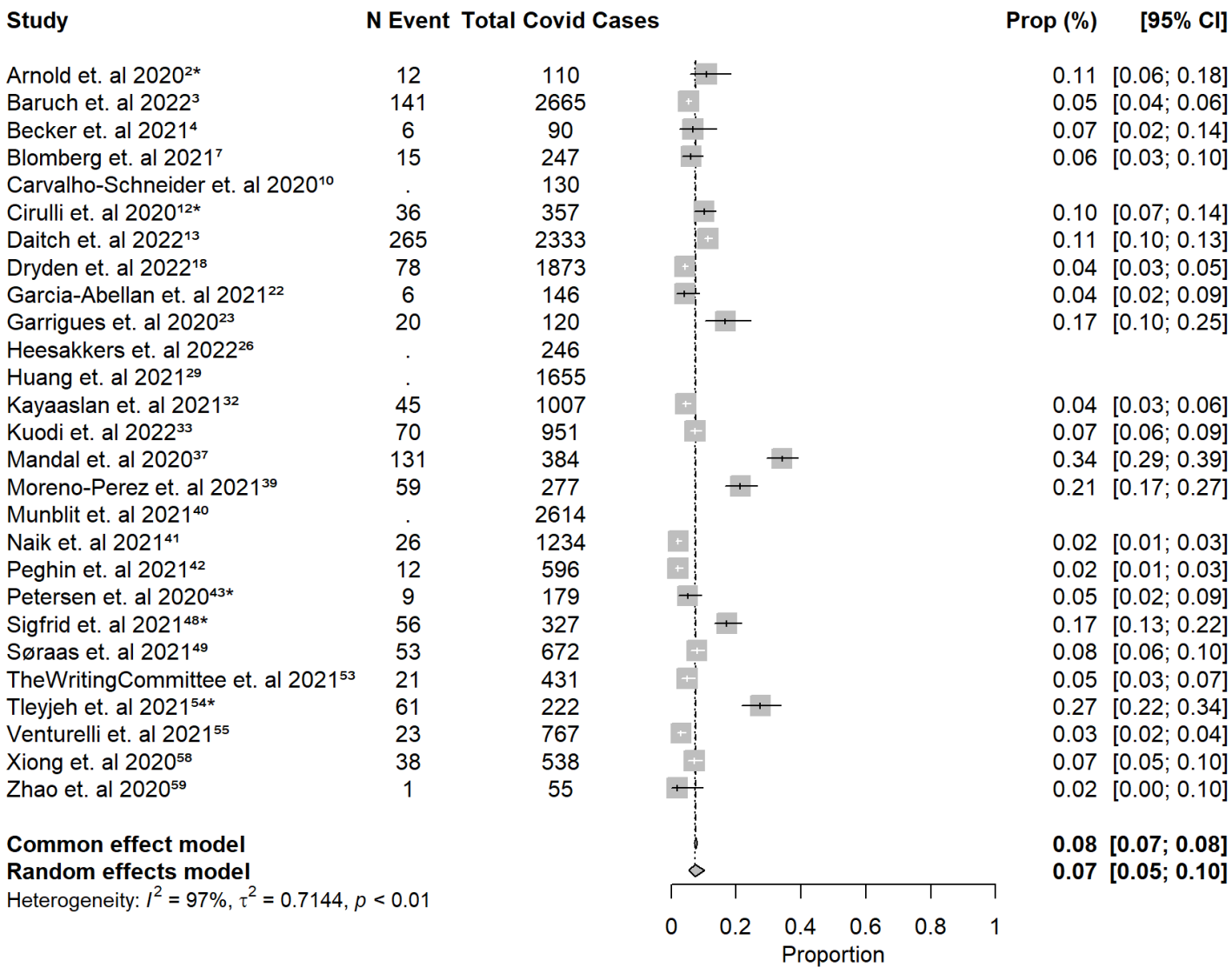
Analysis 3  
Cardiac Symptoms Including Chest Pain: EHR



\* indicates value estimated from a figure

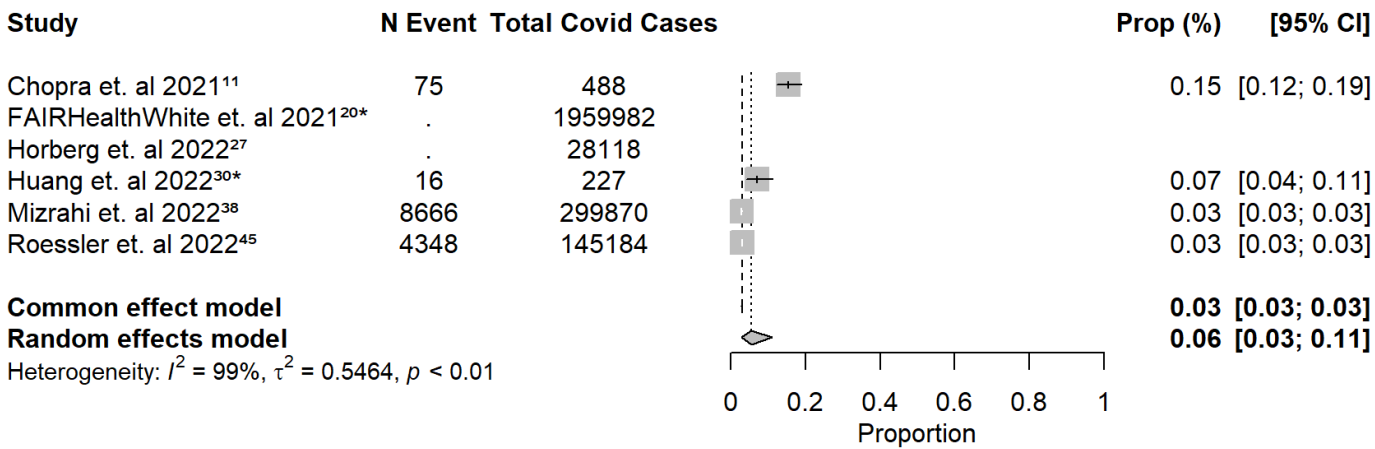
Persistent Cough:

Analysis 3  
Persistent Cough: Survey



\* indicates value estimated from a figure

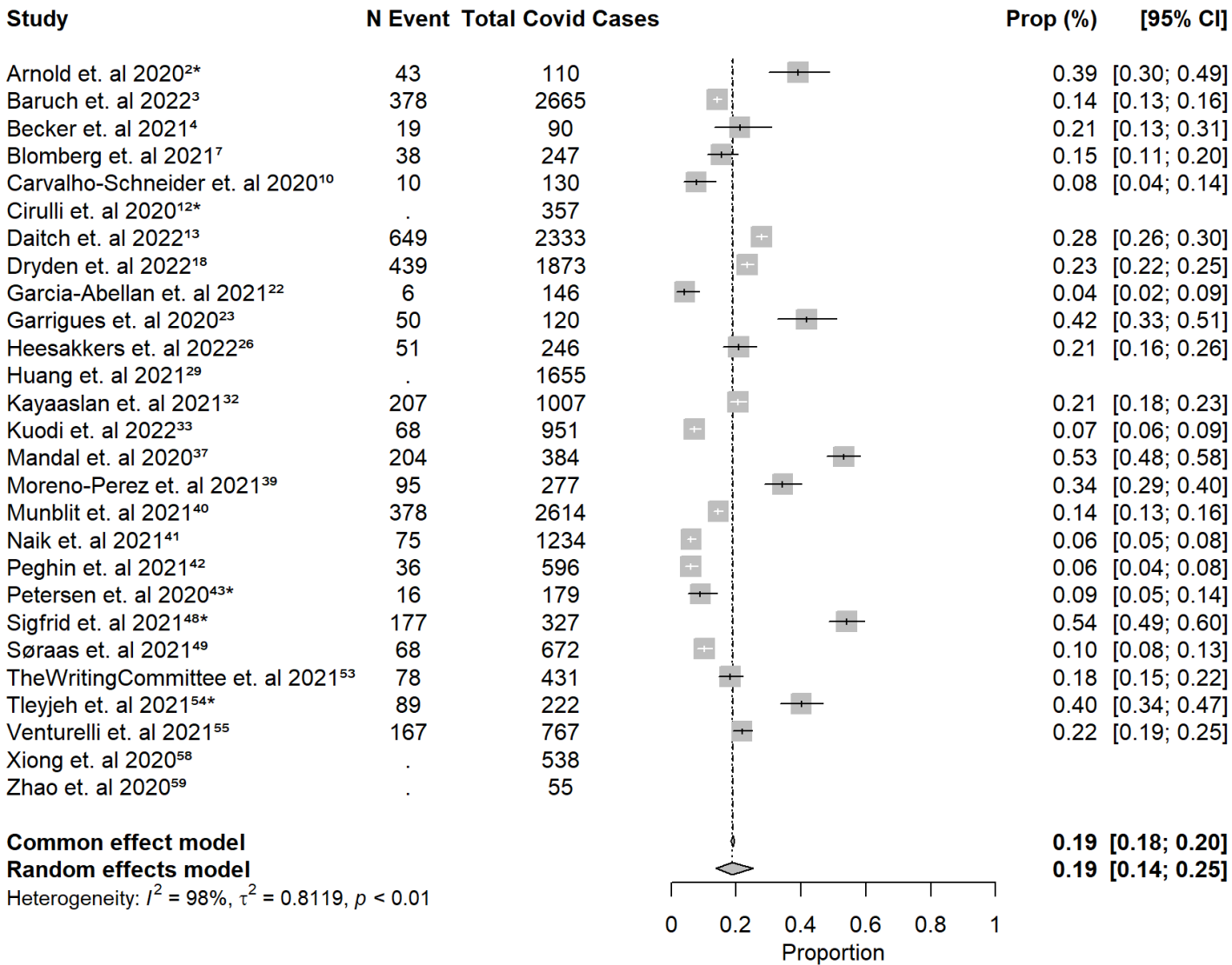
Analysis 3  
Persistant Cough: EHR



\* indicates value estimated from a figure

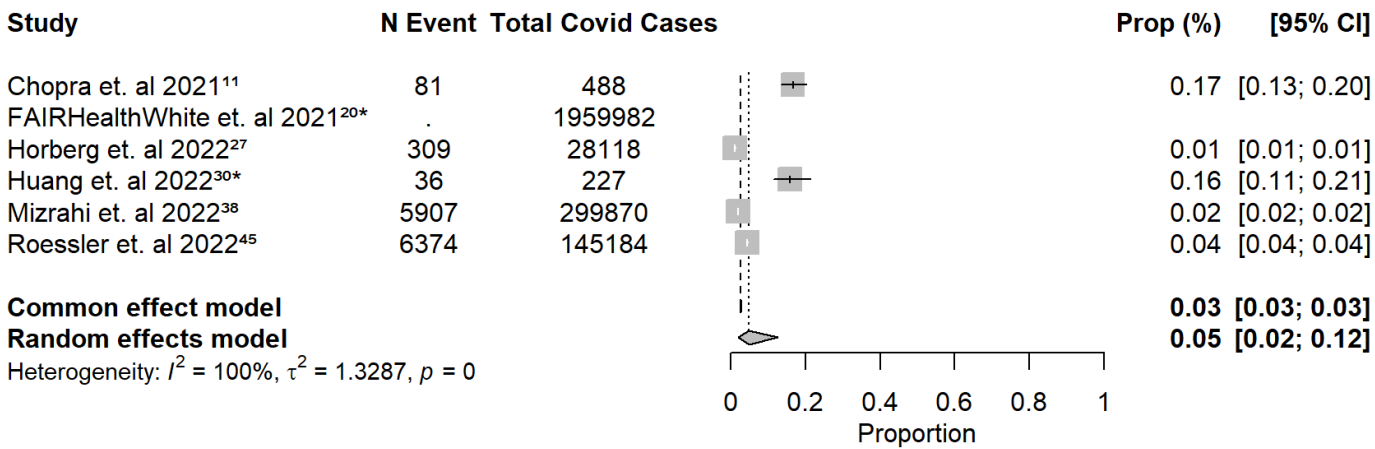
# Shortness Of Breath:

## Analysis 3 Shortness Of Breath: Survey



\* indicates value estimated from a figure

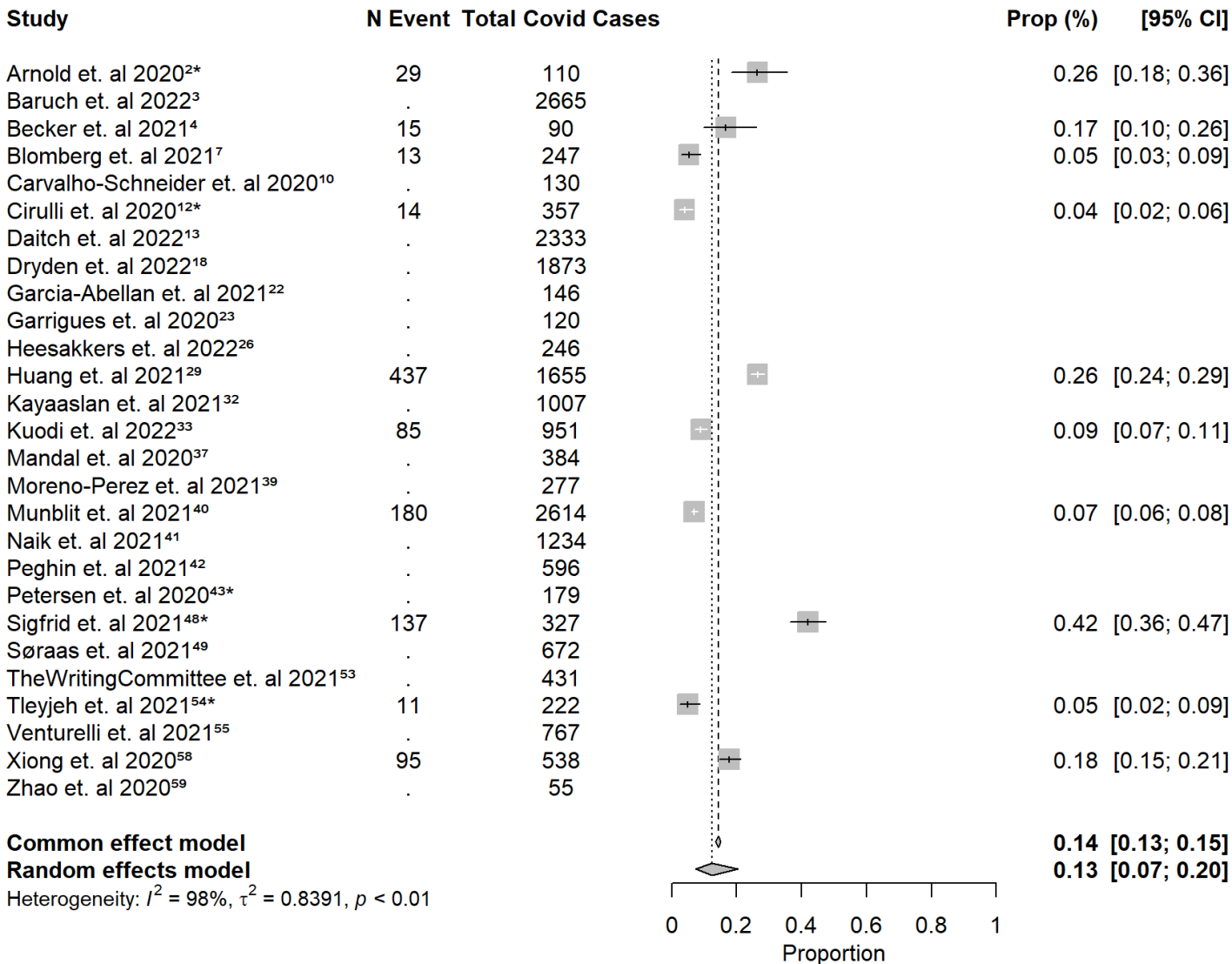
Analysis 3  
Shortness Of Breath: EHR



\* indicates value estimated from a figure

Sleep Problems:

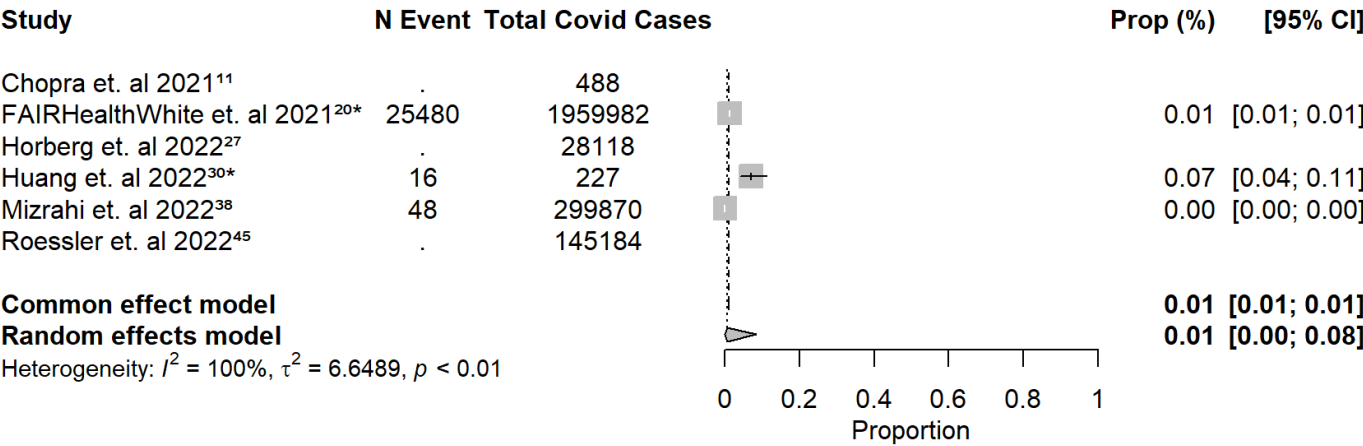
Analysis 3  
Sleep Problems: Survey



\* indicates value estimated from a figure



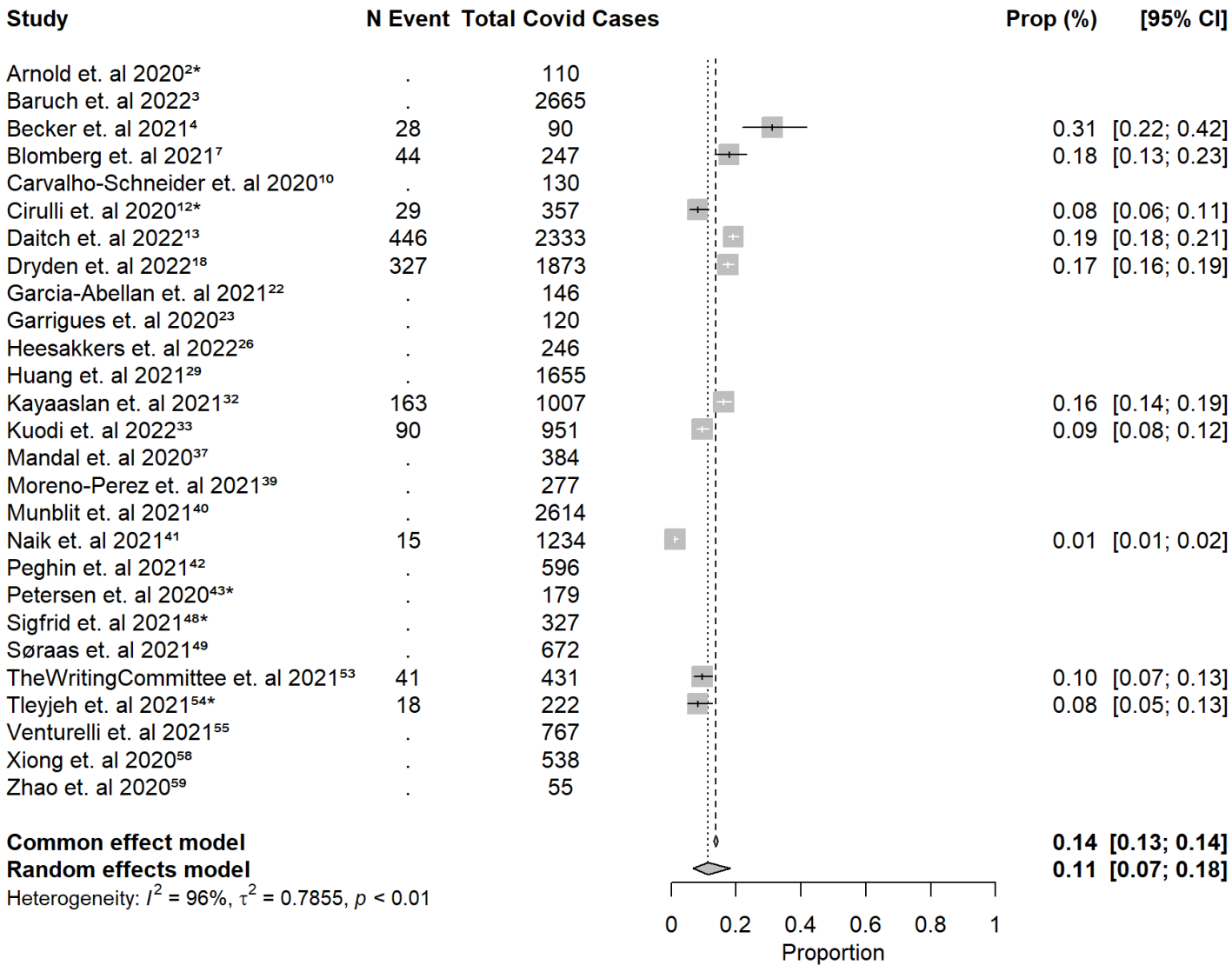
Analysis 3  
Sleep Problems: EHR



\* indicates value estimated from a figure

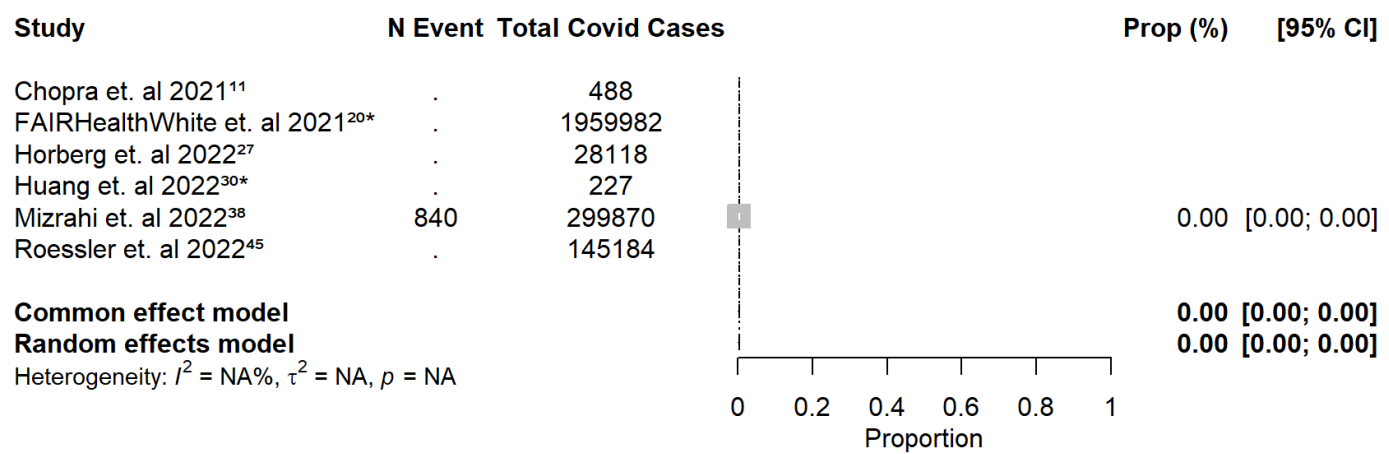
# Problems Thinking Or Concentrating:

Analysis 3  
Problems Thinking Or Concentrating: Survey



\* indicates value estimated from a figure

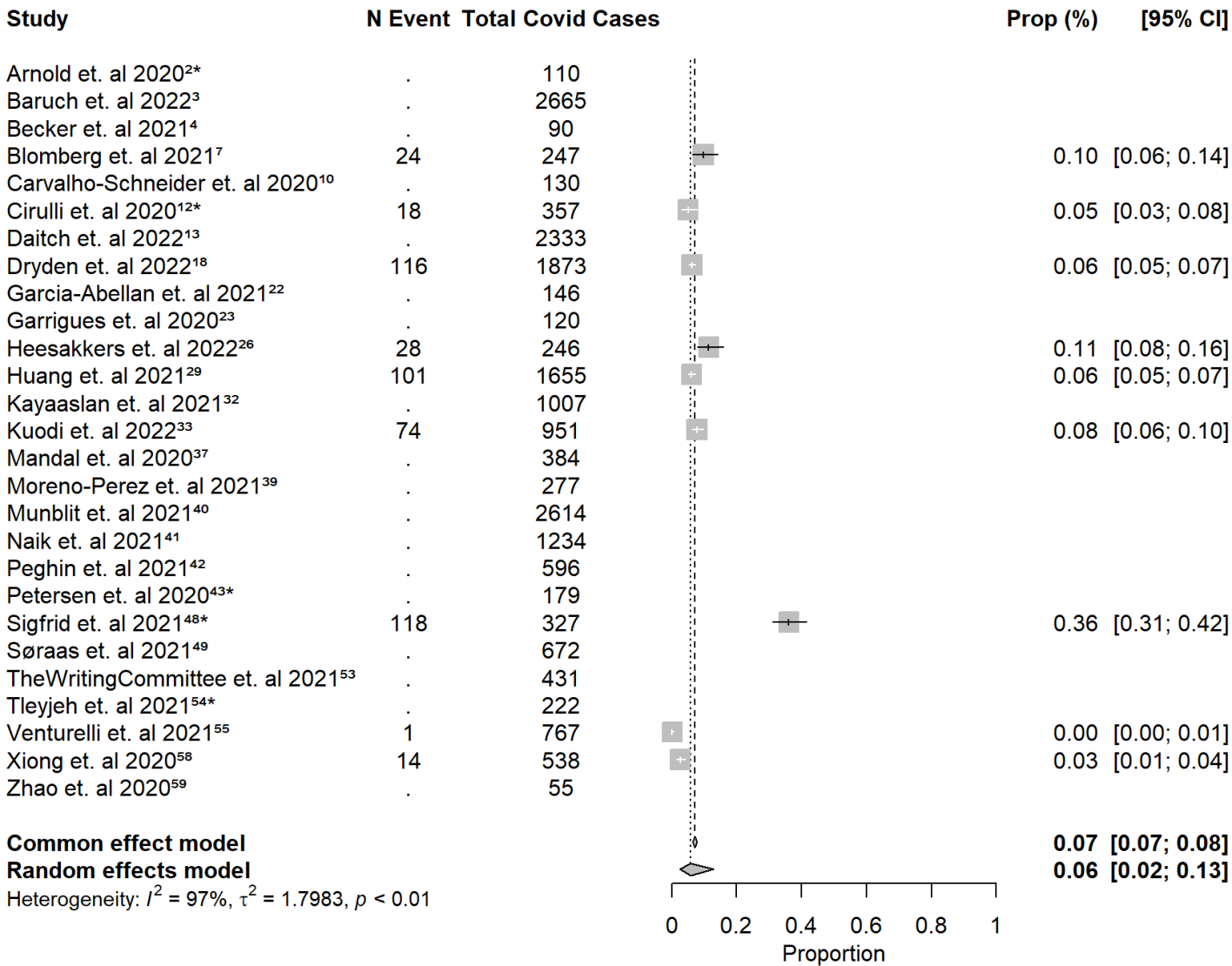
Analysis 3  
Problems Thinking Or Concentrating: EHR



\* indicates value estimated from a figure

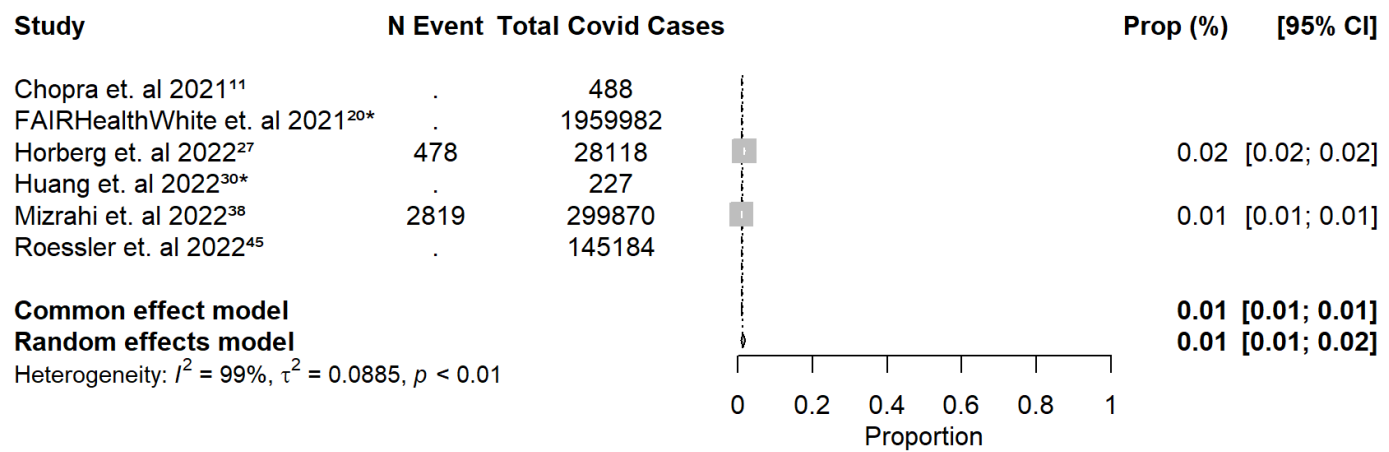
Dizziness:

Analysis 3  
Dizziness: Survey



\* indicates value estimated from a figure

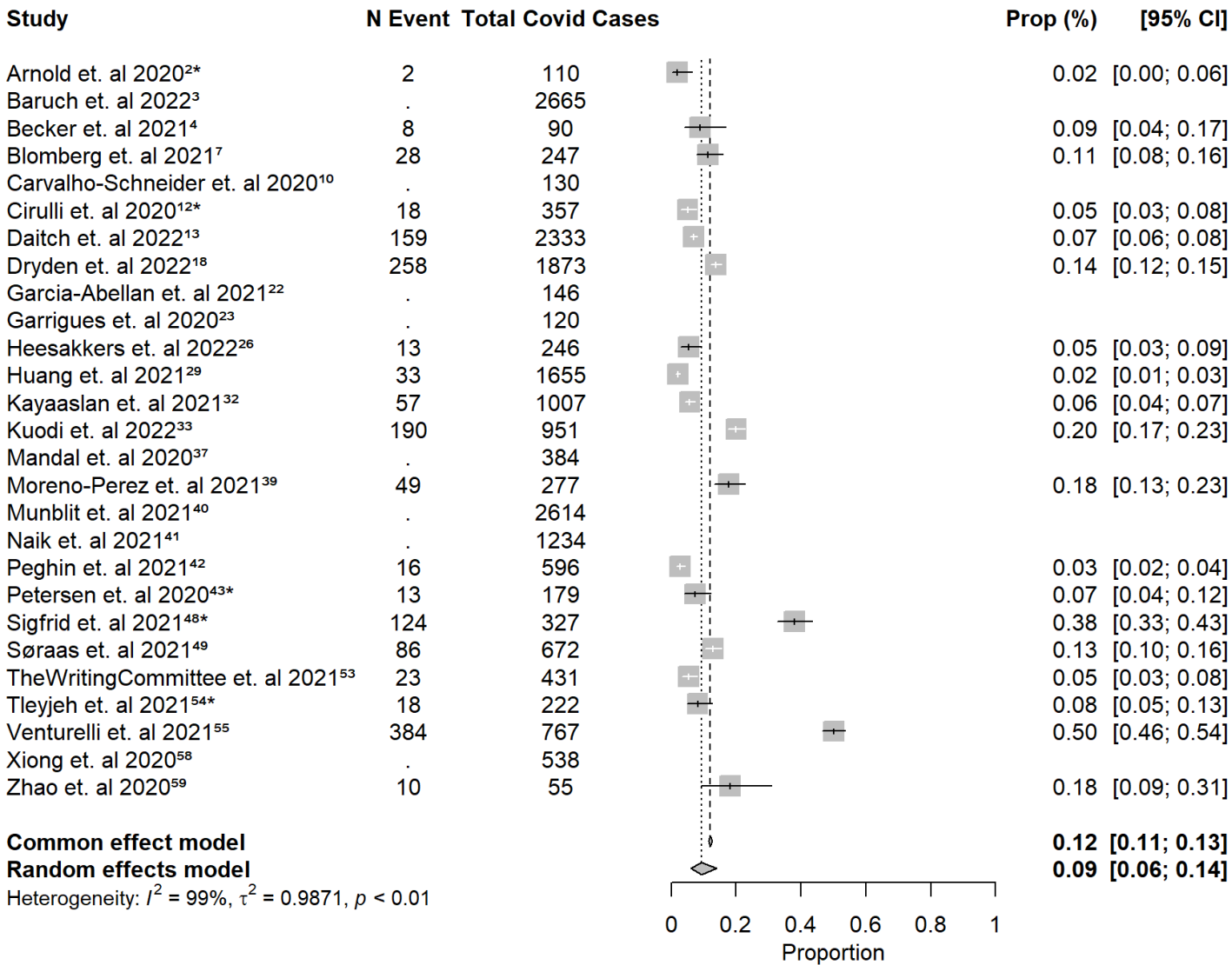
Analysis 3  
Dizziness: EHR



\* indicates value estimated from a figure

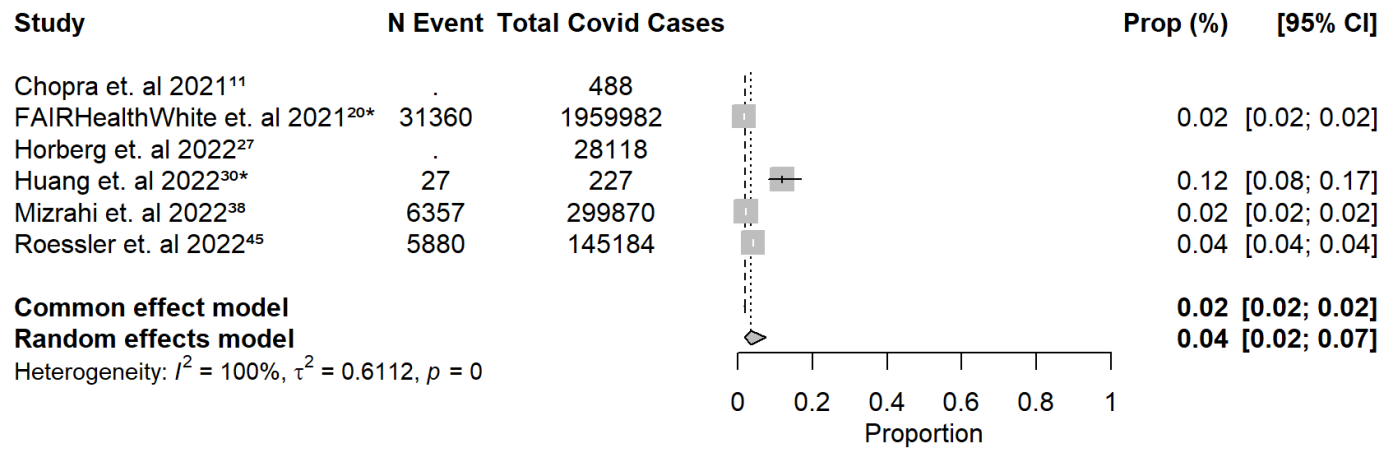
Headache:

Analysis 3  
Headache: Survey



\* indicates value estimated from a figure

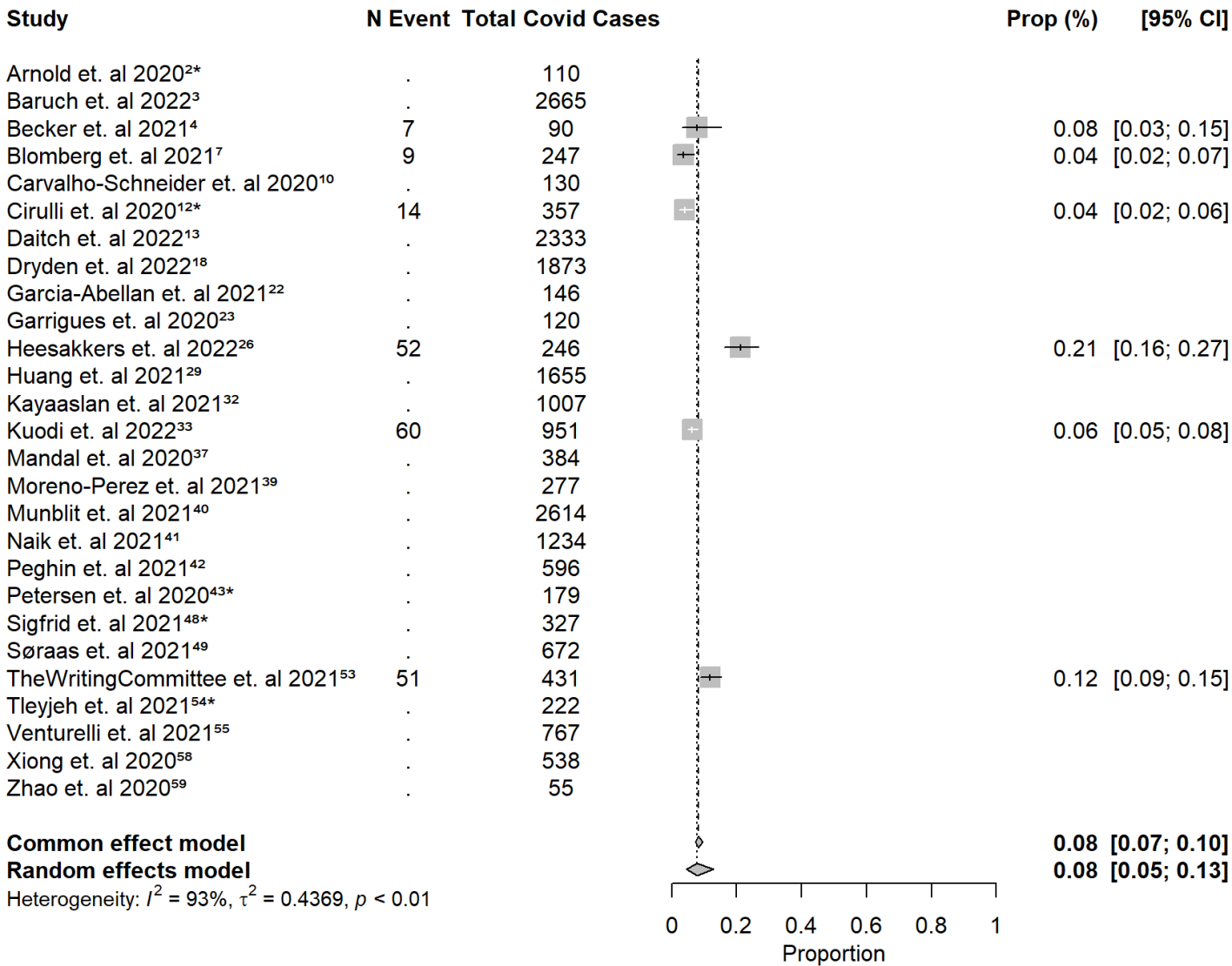
Analysis 3  
Headache: EHR



\* indicates value estimated from a figure

# Nerve Problems Seizures:

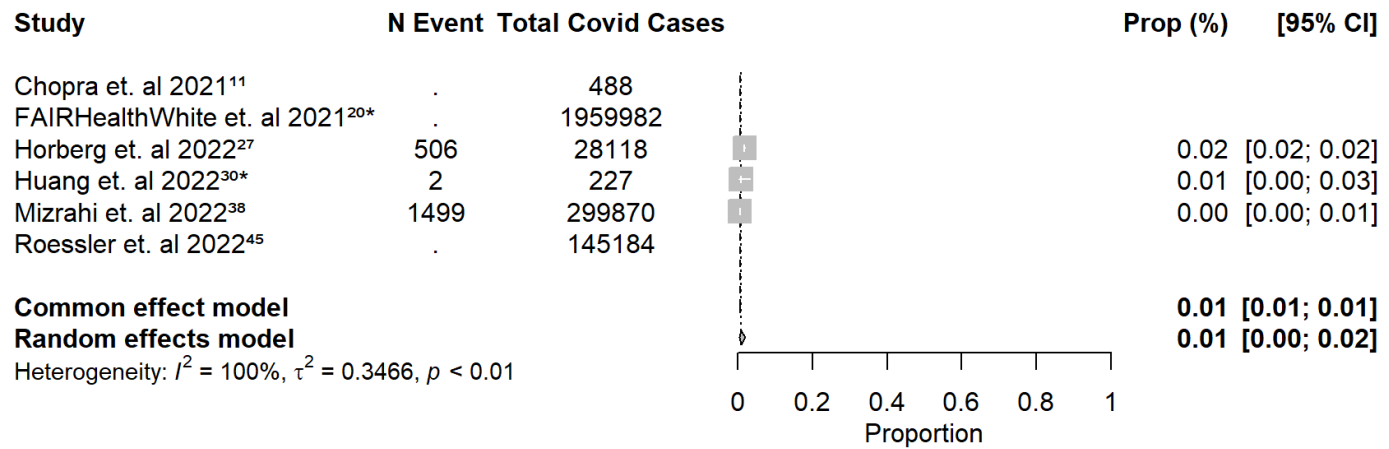
## Analysis 3 Nerve Problems Seizures: Survey



\* indicates value estimated from a figure



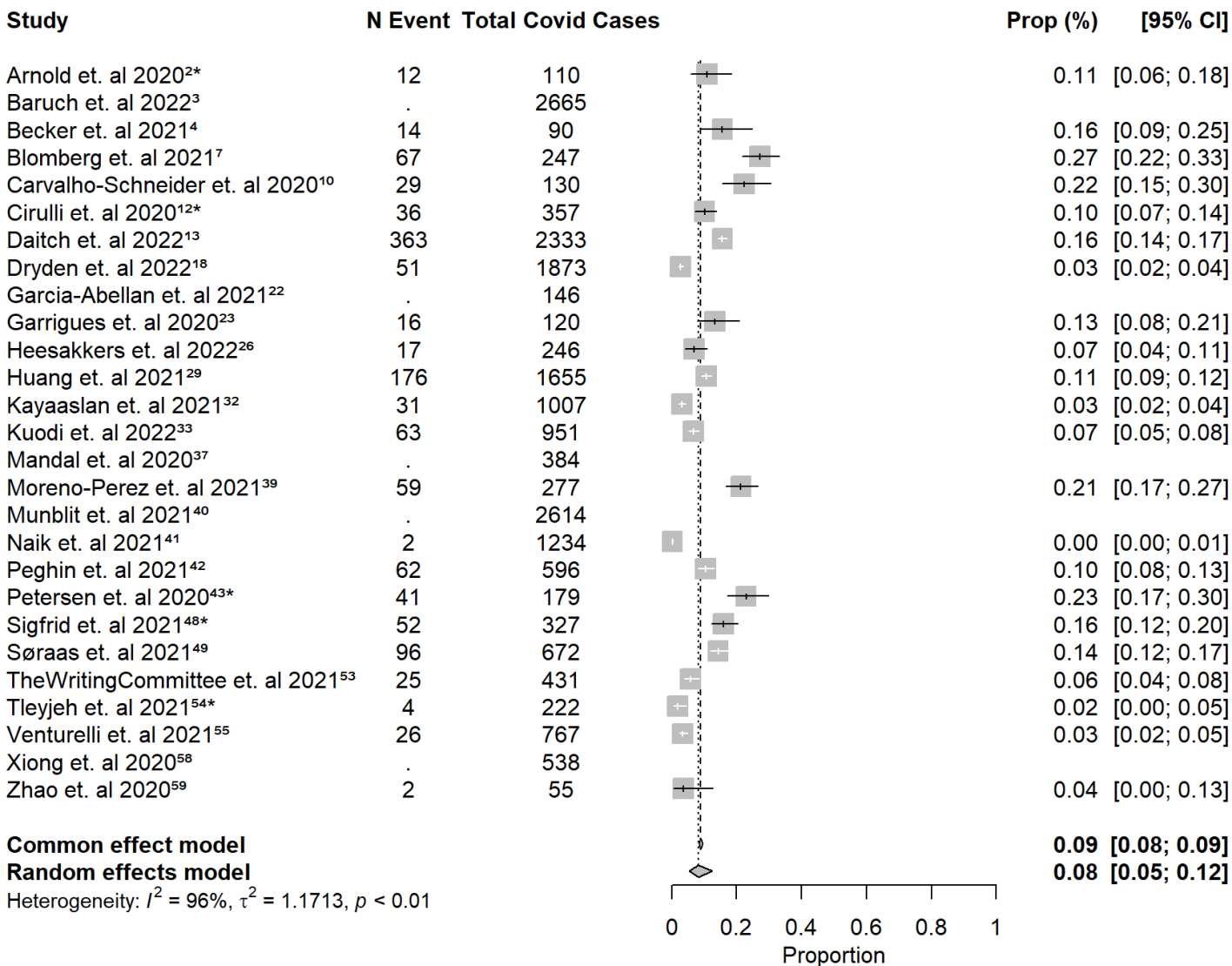
Analysis 3  
Nerve Problems Seizures: EHR



\* indicates value estimated from a figure

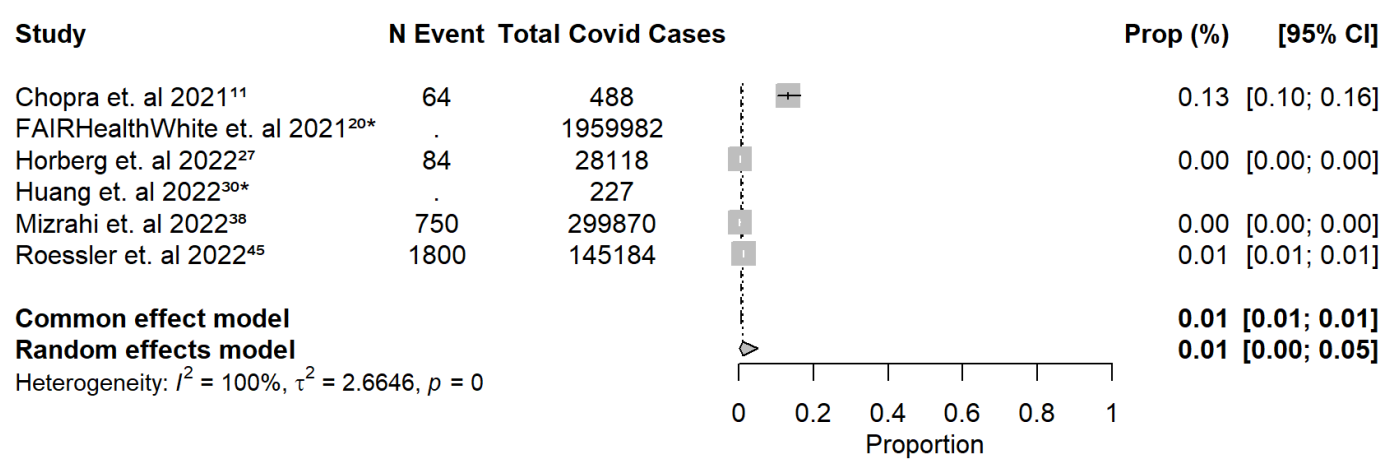
# Loss Of Or Change In Smell Or Taste:

Analysis 3  
Loss Of Or Change In Smell Or Taste: Survey



\* indicates value estimated from a figure

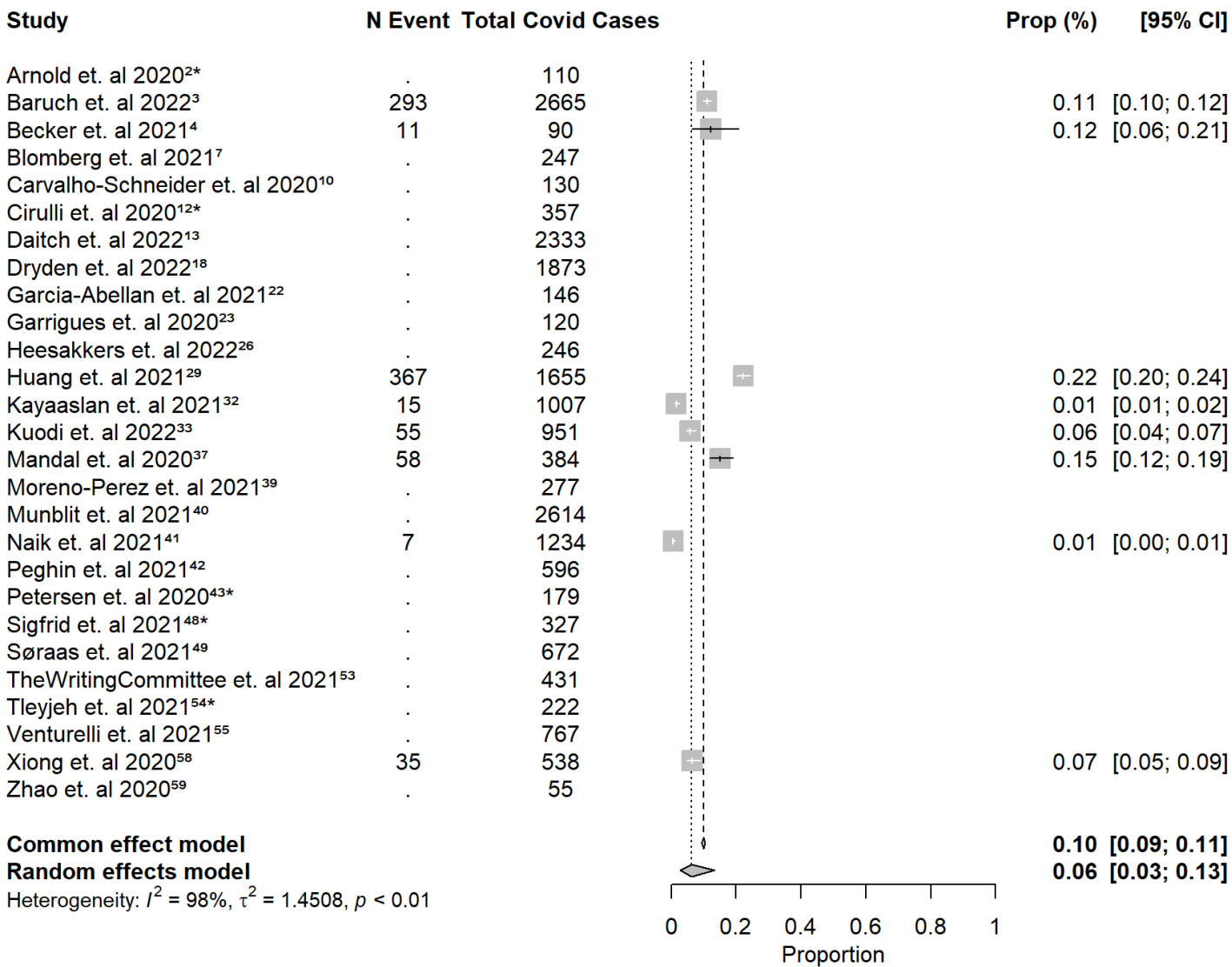
Analysis 3  
Loss Of Or Change In Smell Or Taste: EHR



\* indicates value estimated from a figure

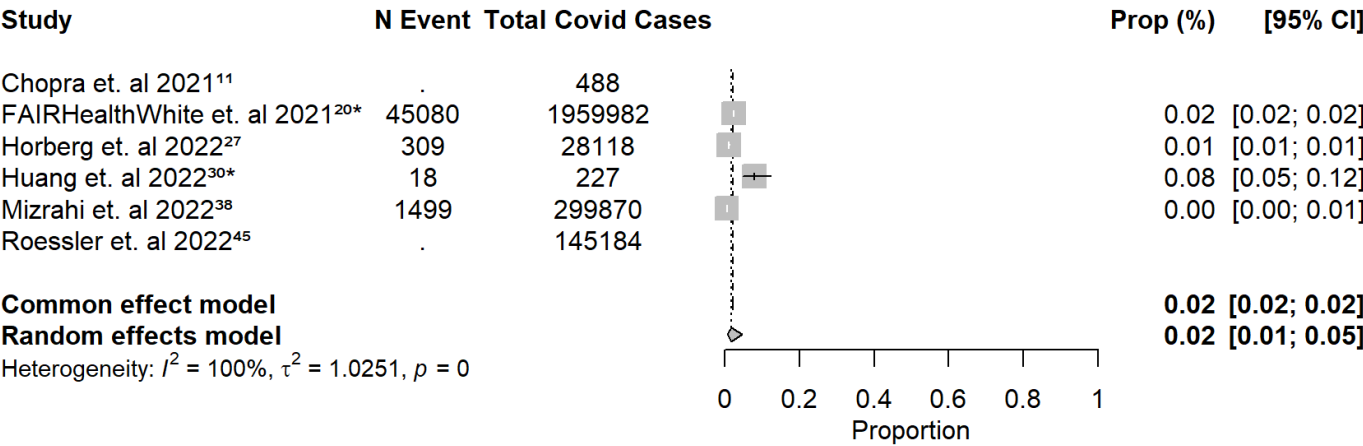
# Mental Health Concerns:

## Analysis 3 Mental Health Concerns: Survey



\* indicates value estimated from a figure

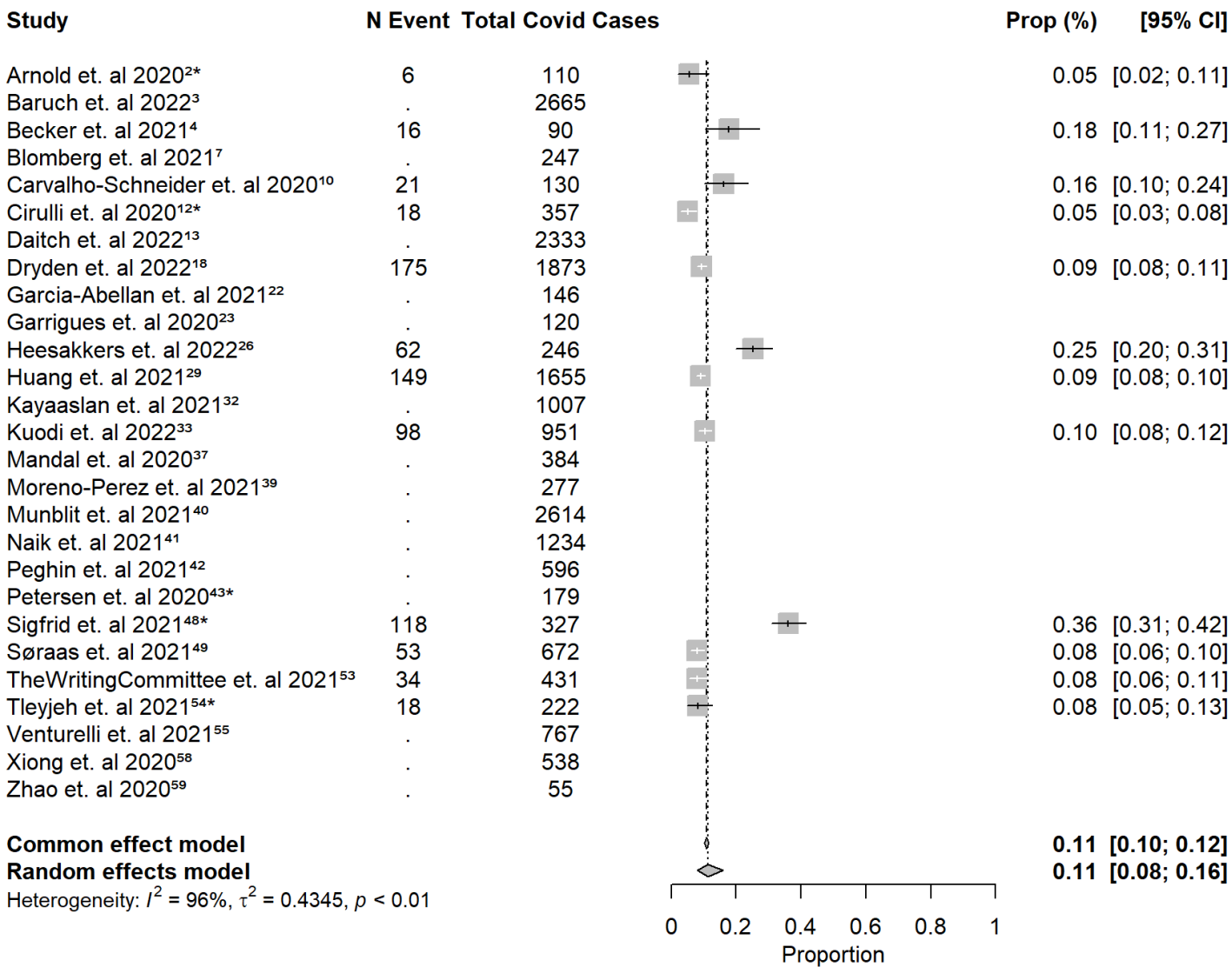
Analysis 3  
Mental Health Concerns: EHR



\* indicates value estimated from a figure

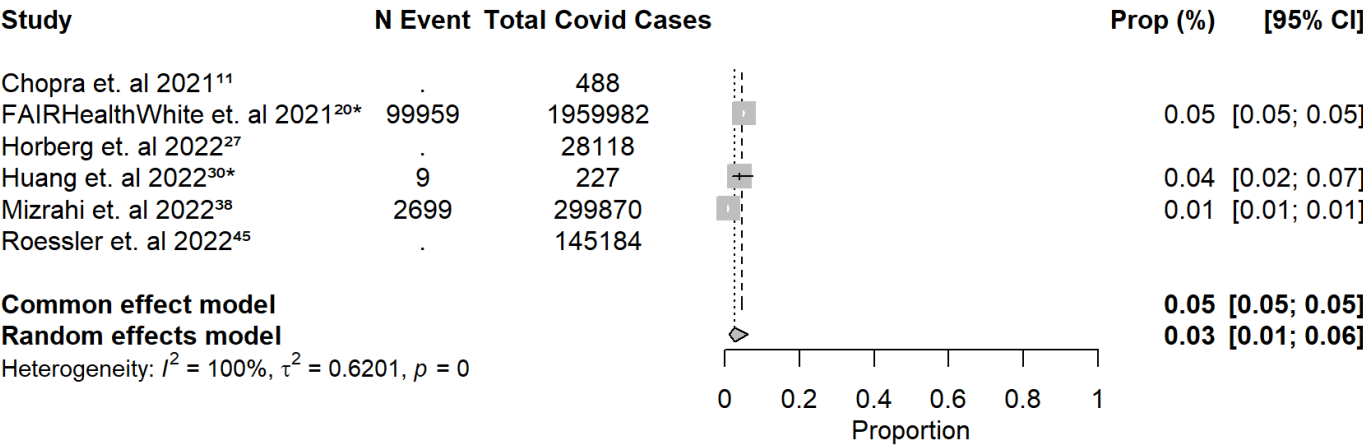
Joint Muscle Pain:

Analysis 3  
Joint Muscle Pain: Survey



\* indicates value estimated from a figure

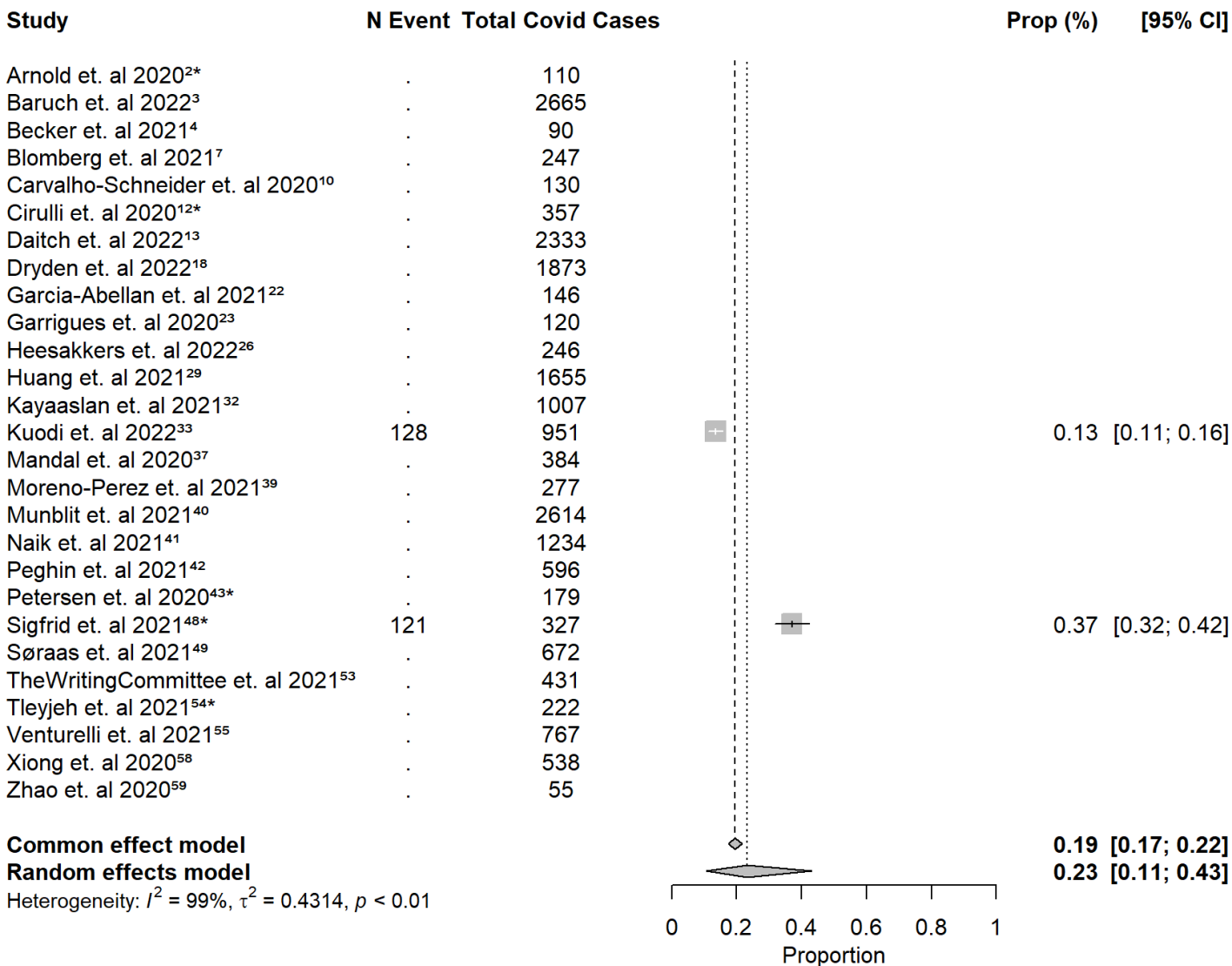
Analysis 3  
Joint Muscle Pain: EHR



\* indicates value estimated from a figure

# Weakness In Arms Or Legs:

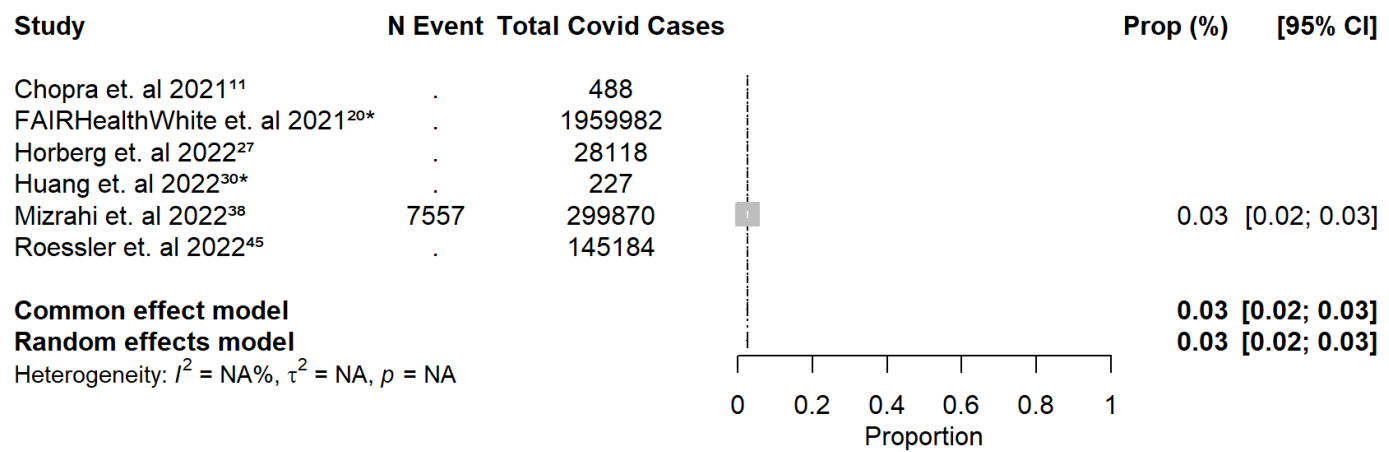
## Analysis 3 Weakness In Arms Or Legs: Survey



\* indicates value estimated from a figure



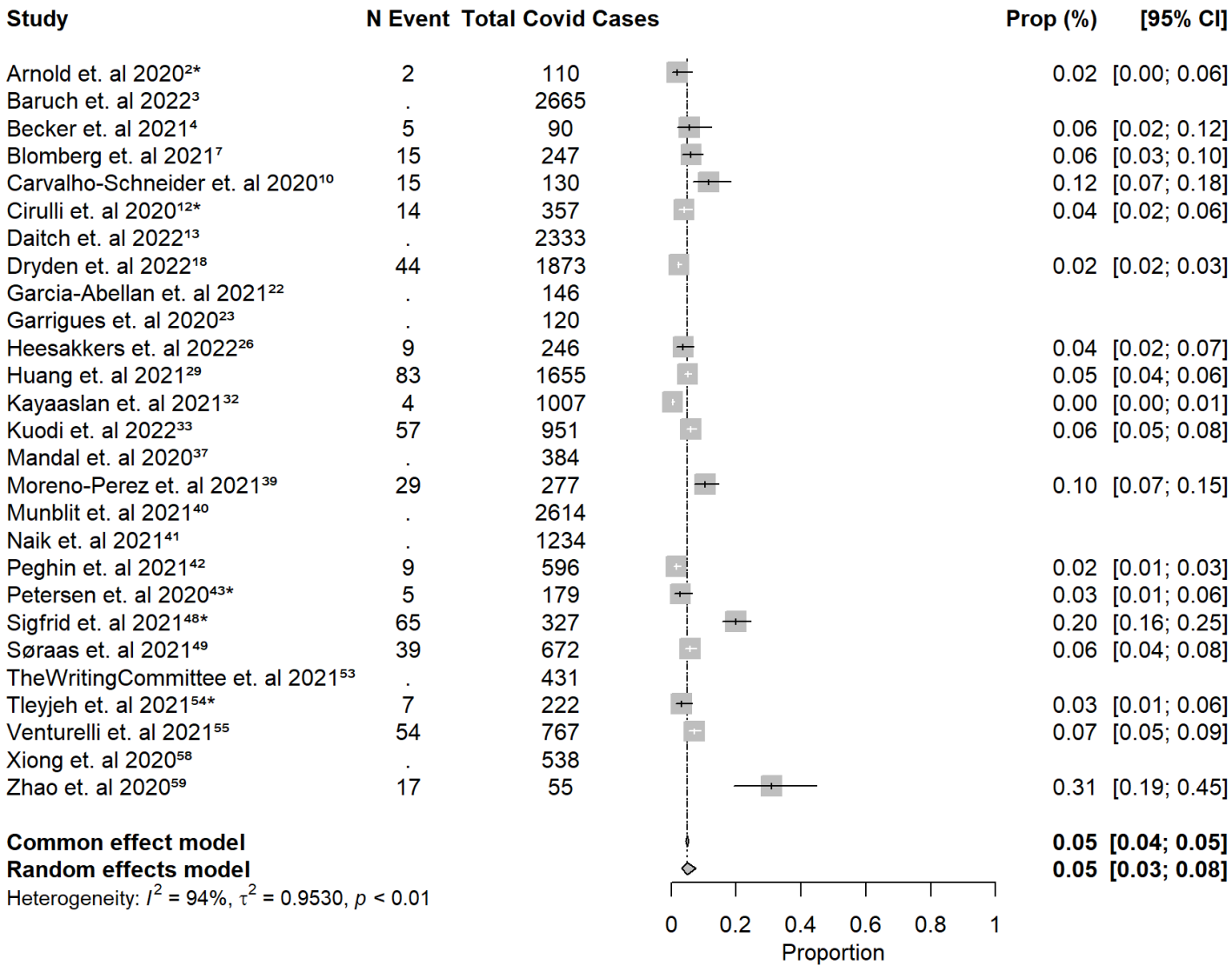
Analysis 3  
Weakness In Arms Or Legs: EHR



\* indicates value estimated from a figure

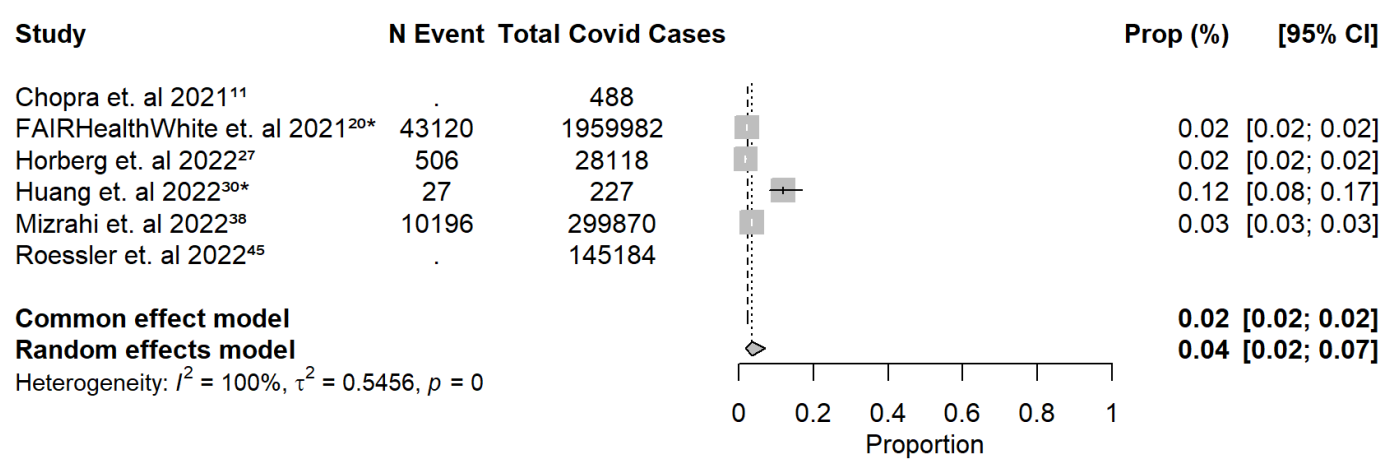
# Gi Symptoms Including Abdominal Pain:

Analysis 3  
Gi Symptoms Including Abdominal Pain: Survey



\* indicates value estimated from a figure

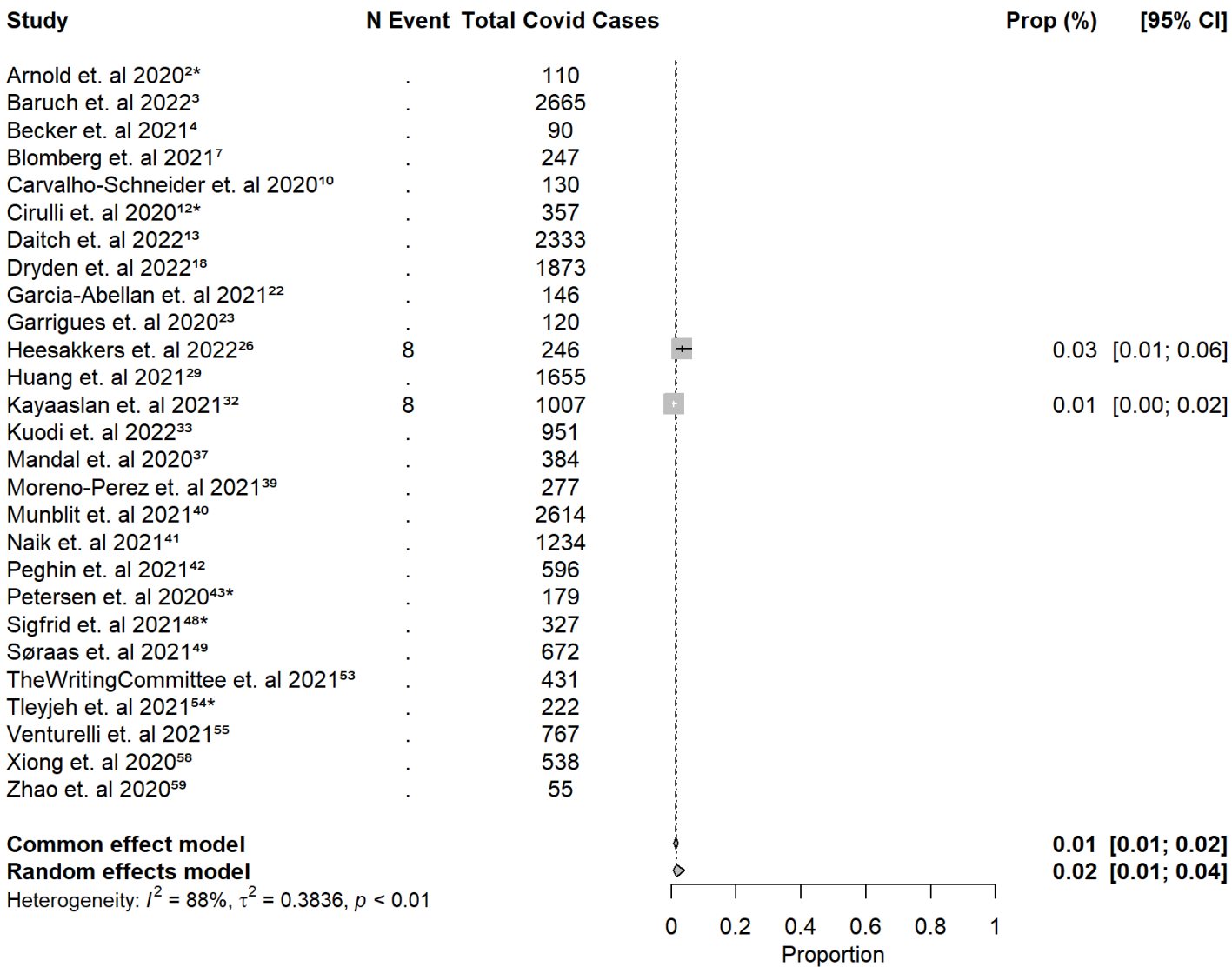
Analysis 3  
Gi Symptoms Including Abdominal Pain: EHR



\* indicates value estimated from a figure

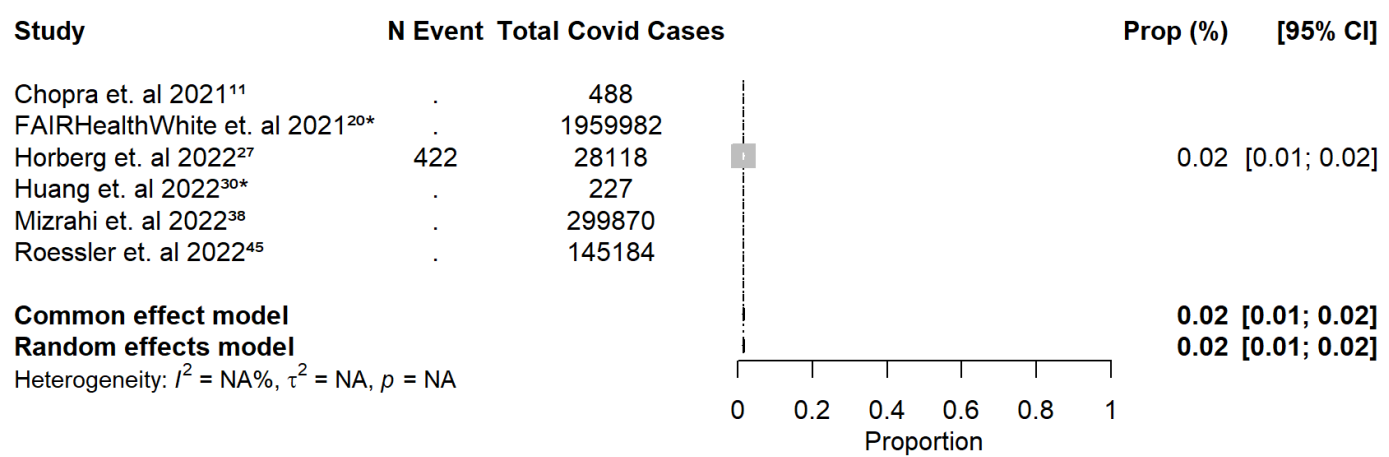
Urinary Symptoms:

Analysis 3  
Urinary Symptoms: Survey



\* indicates value estimated from a figure

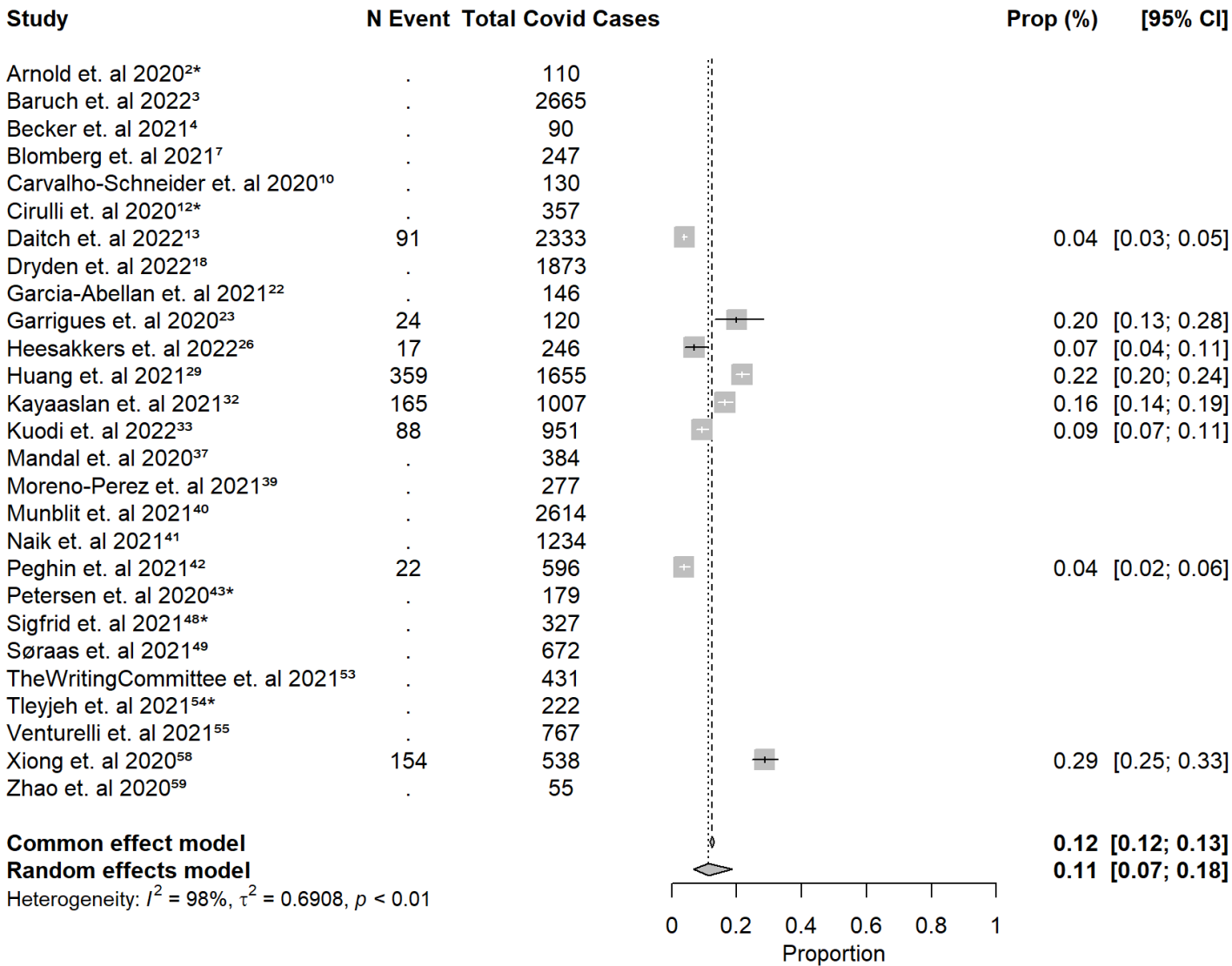
Analysis 3  
Urinary Symptoms: EHR



\* indicates value estimated from a figure

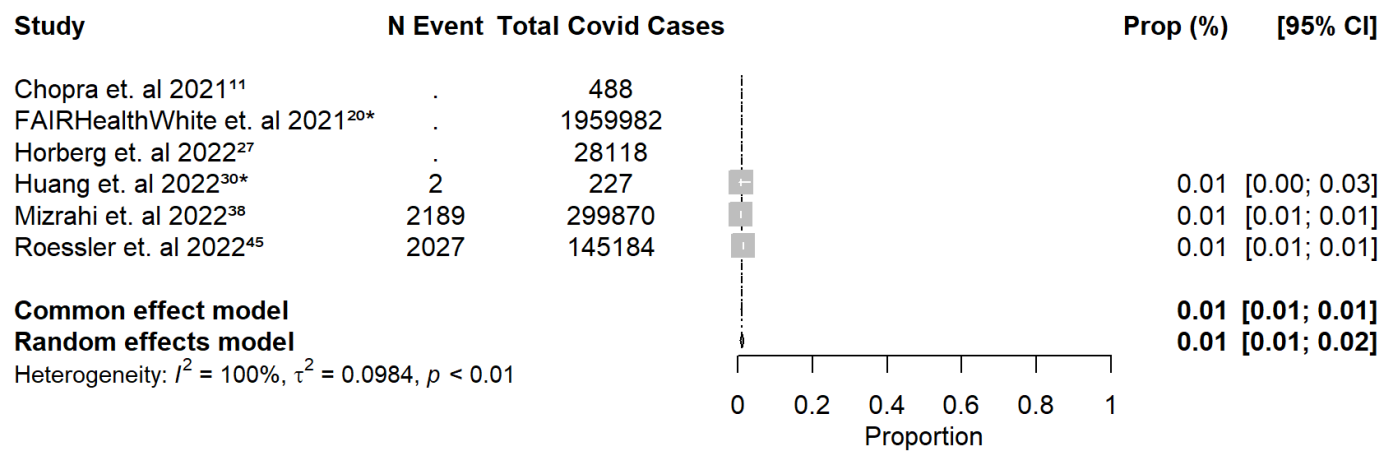
Hair Loss:

Analysis 3  
Hair Loss: Survey



\* indicates value estimated from a figure

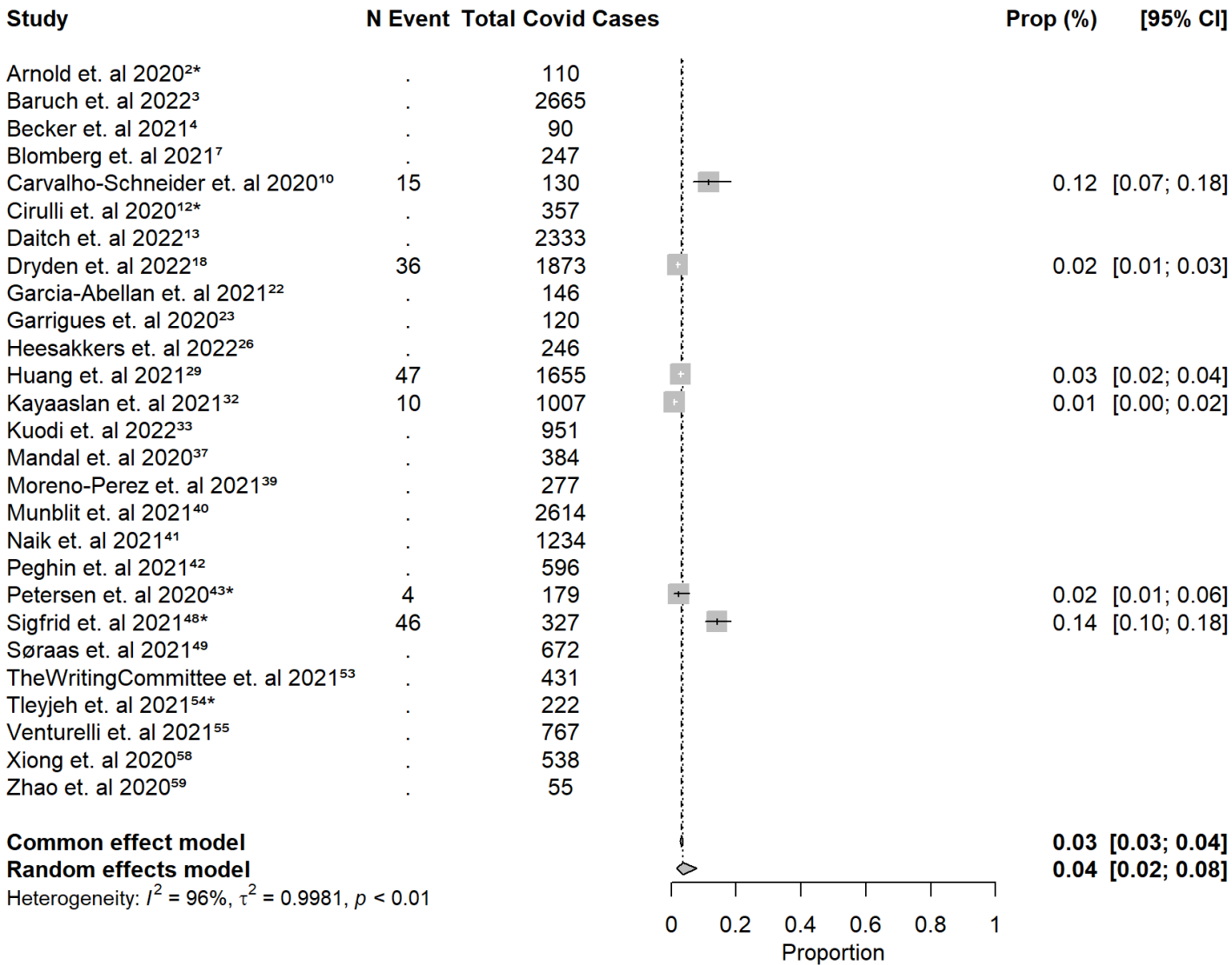
Analysis 3  
Hair Loss: EHR



\* indicates value estimated from a figure

Skin Rash:

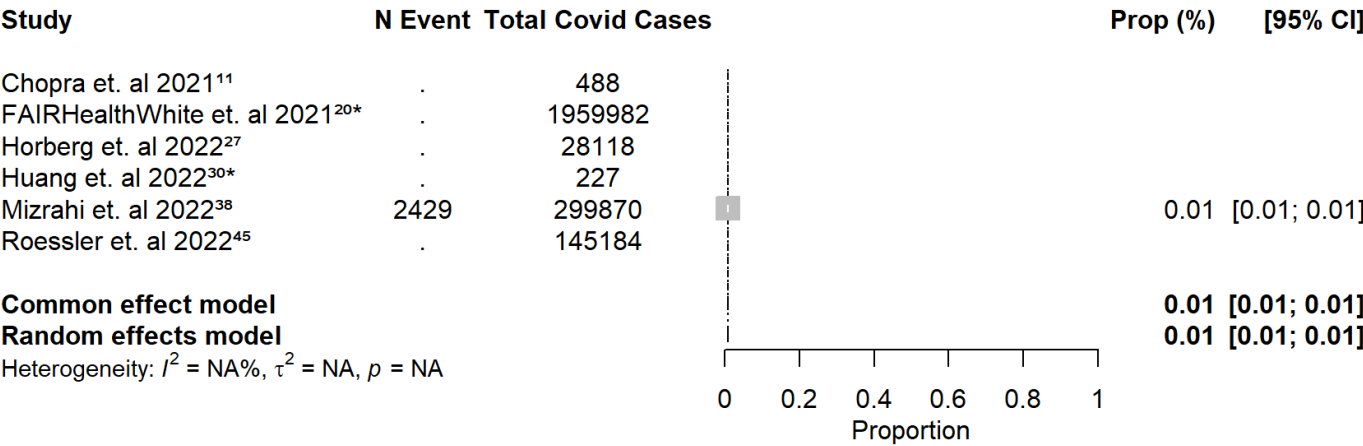
Analysis 3  
Skin Rash: Survey



\* indicates value estimated from a figure



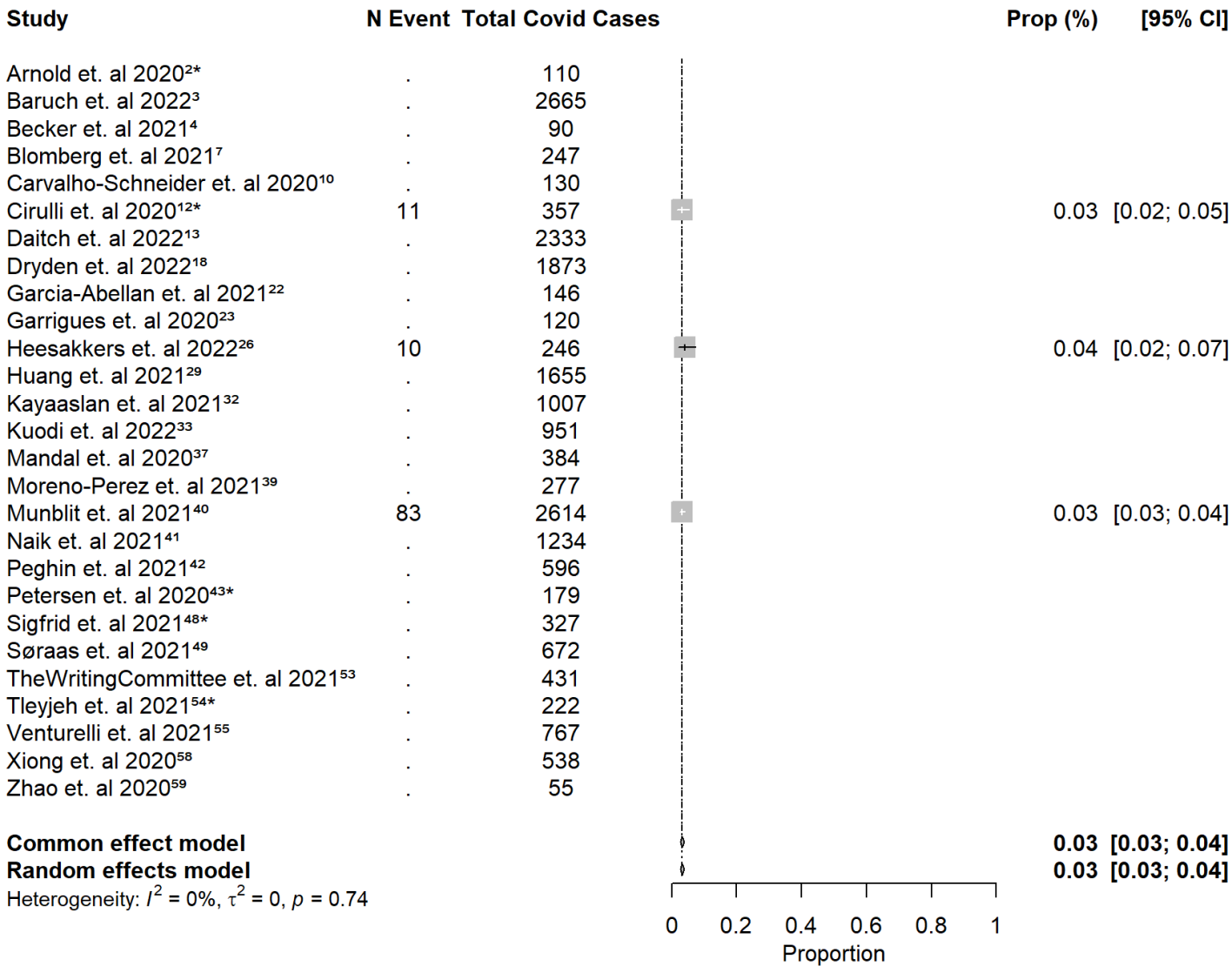
Analysis 3  
Skin Rash: EHR



\* indicates value estimated from a figure

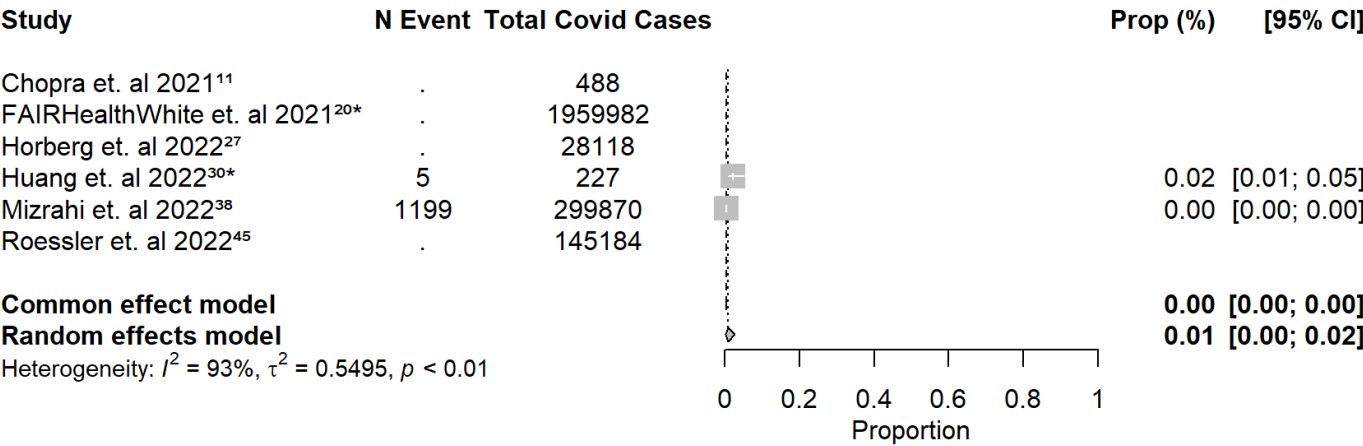
# Hearing Problems:

## Analysis 3 Hearing Problems: Survey



\* indicates value estimated from a figure

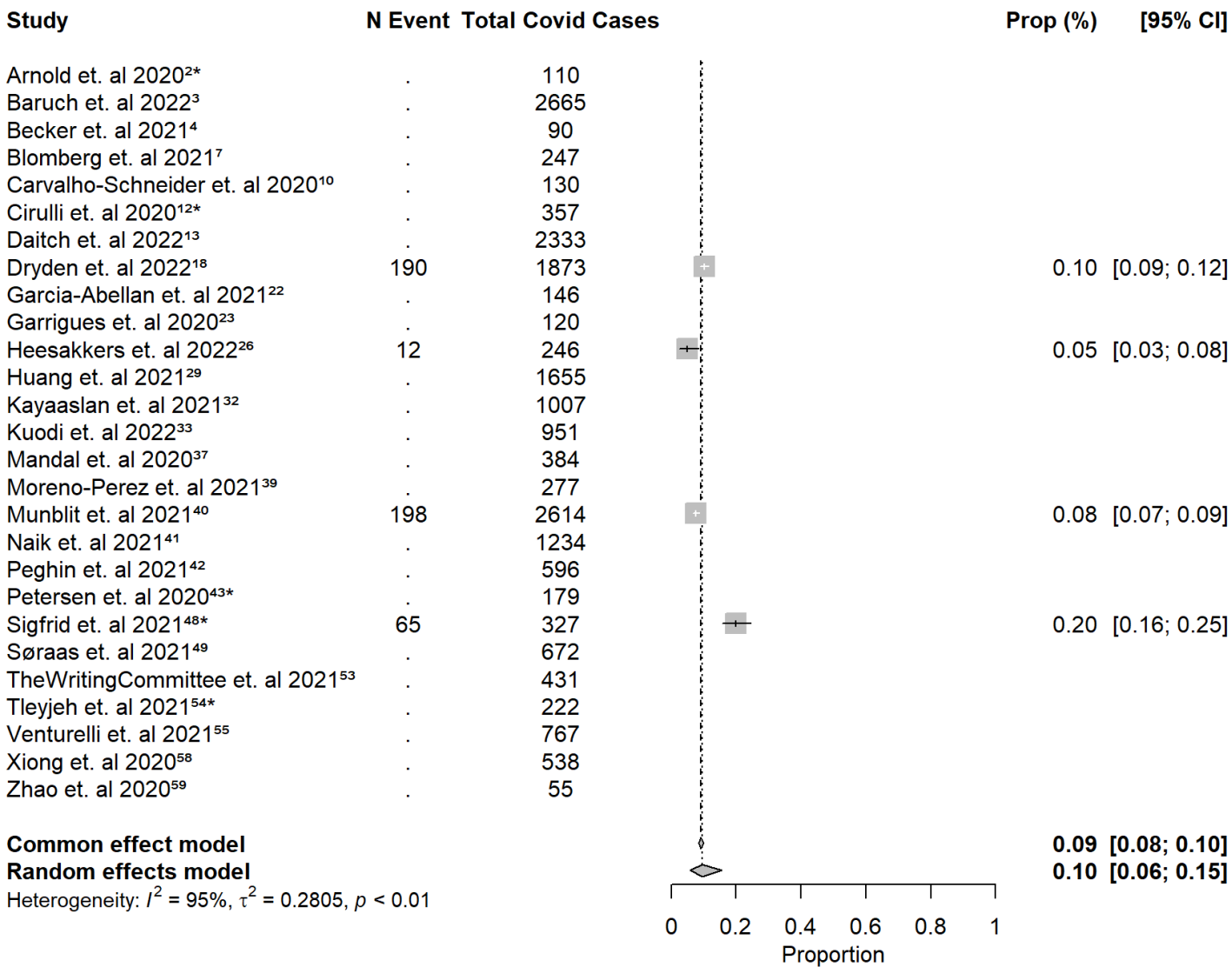
Analysis 3  
Hearing Problems: EHR



\* indicates value estimated from a figure

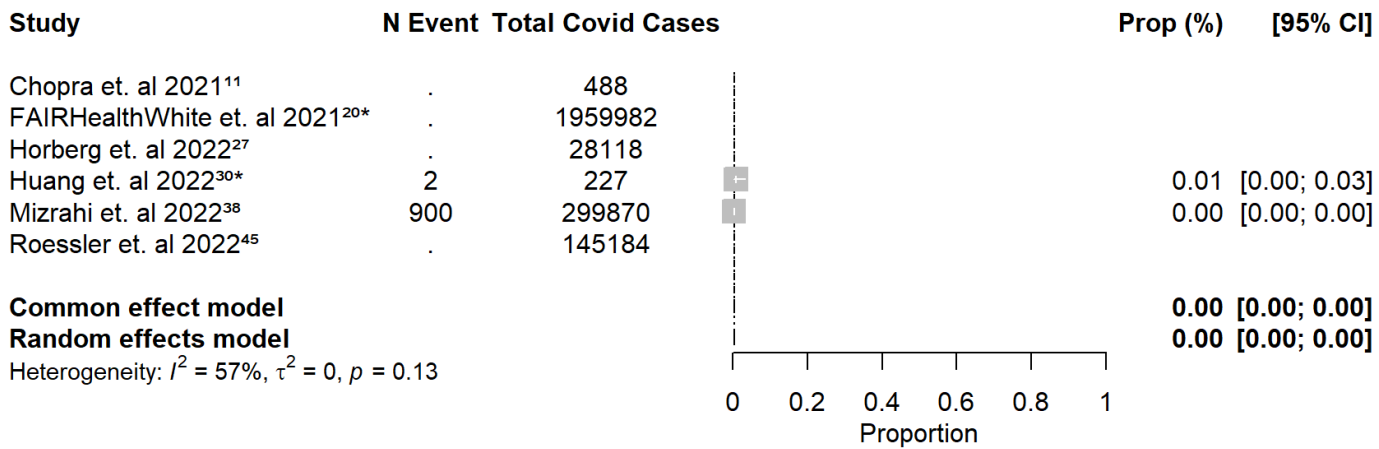
Vision Problems:

Analysis 3  
Vision Problems: Survey



\* indicates value estimated from a figure

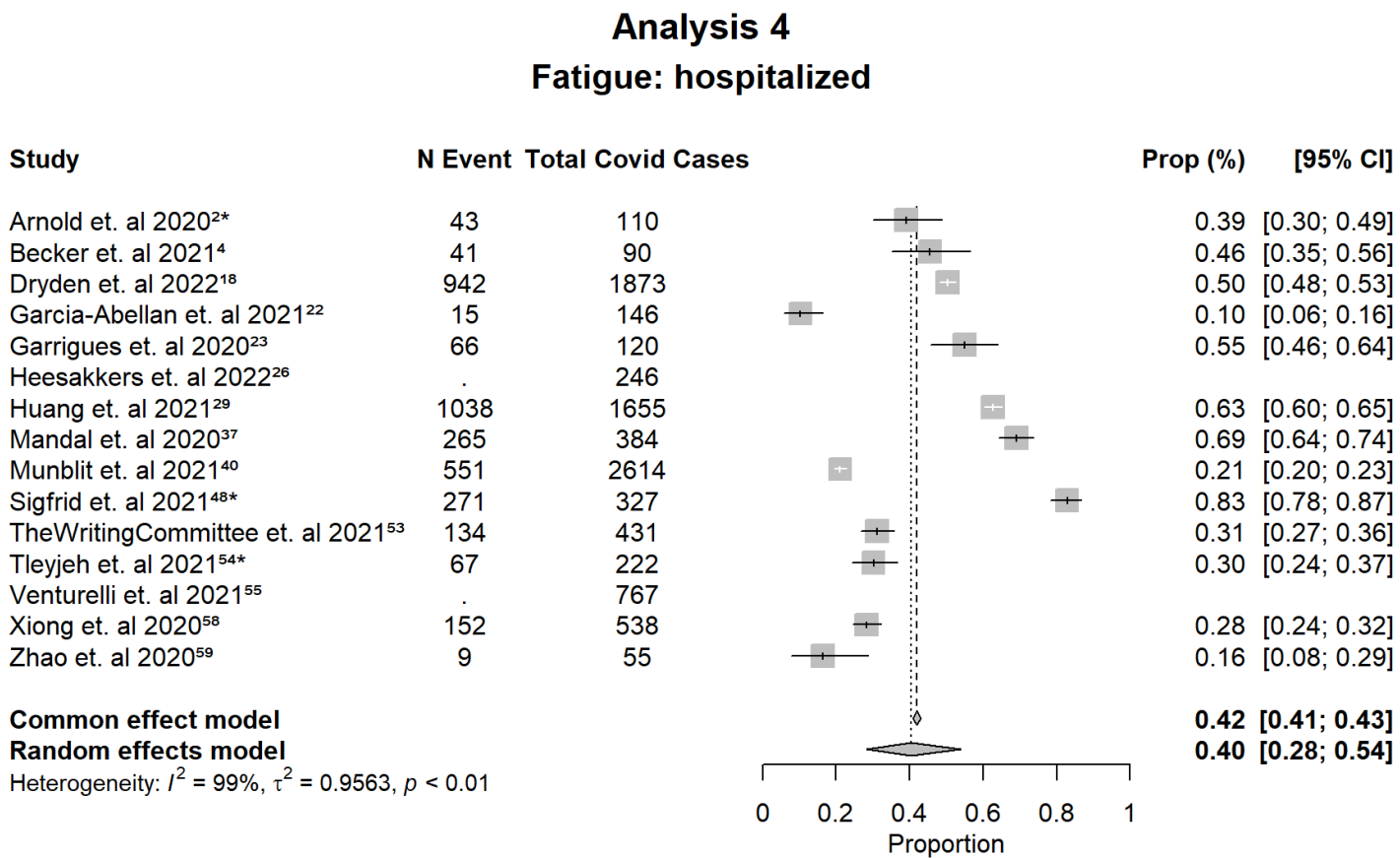
Analysis 3  
Vision Problems: EHR



\* indicates value estimated from a figure

# Analysis 4, stratified by hospitalized, non-hospitalized and mixed

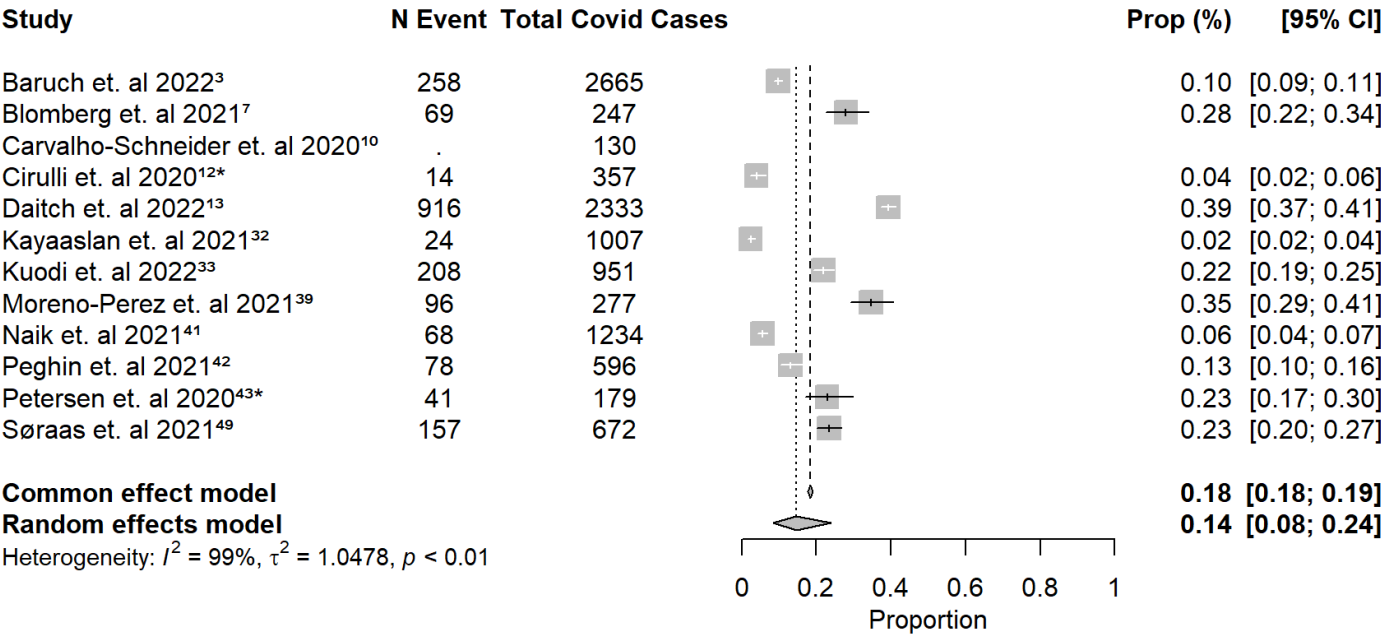
Fatigue:



\* indicates value estimated from a figure

Analysis 4

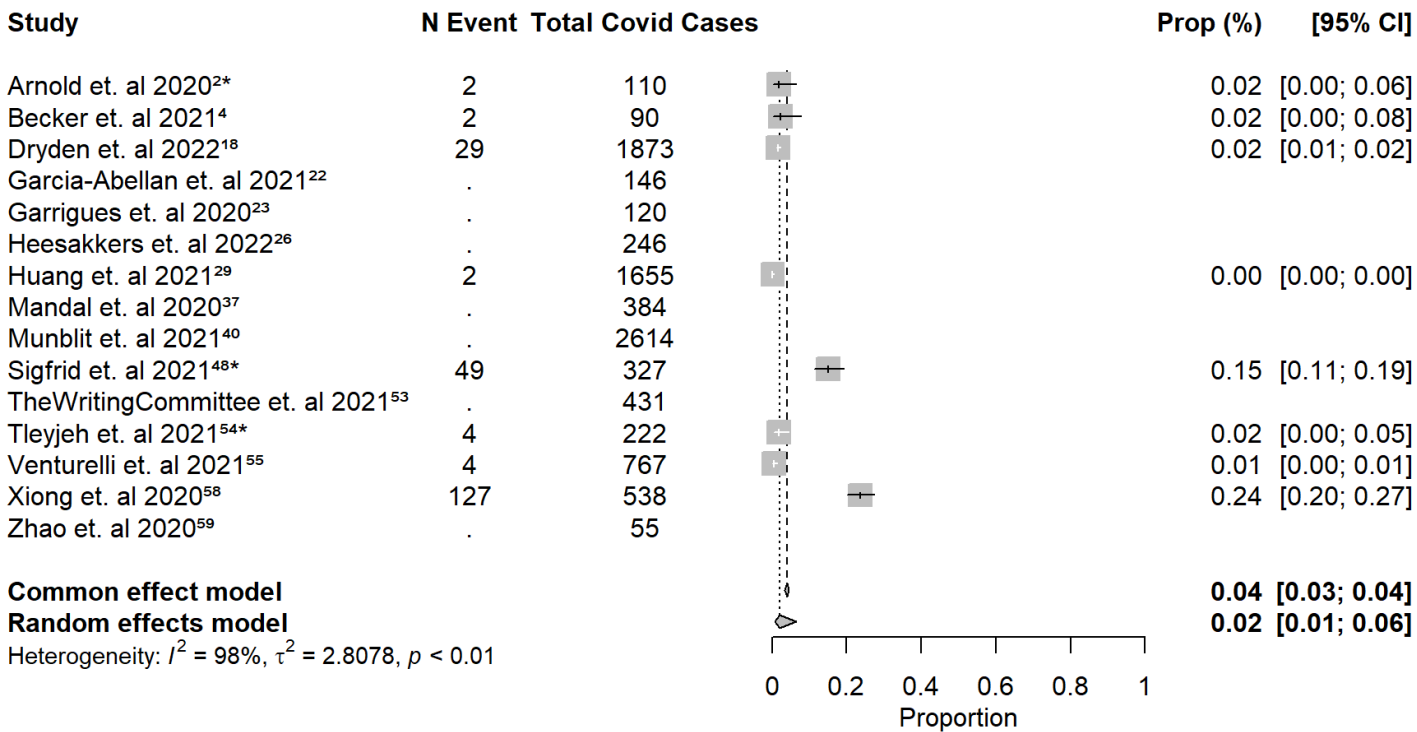
Fatigue: non-hospitalized and mixed



\* indicates value estimated from a figure

# Fever Chills Sweats Or Flushing:

## Analysis 4 Fever Chills Sweats Or Flushing: hospitalized

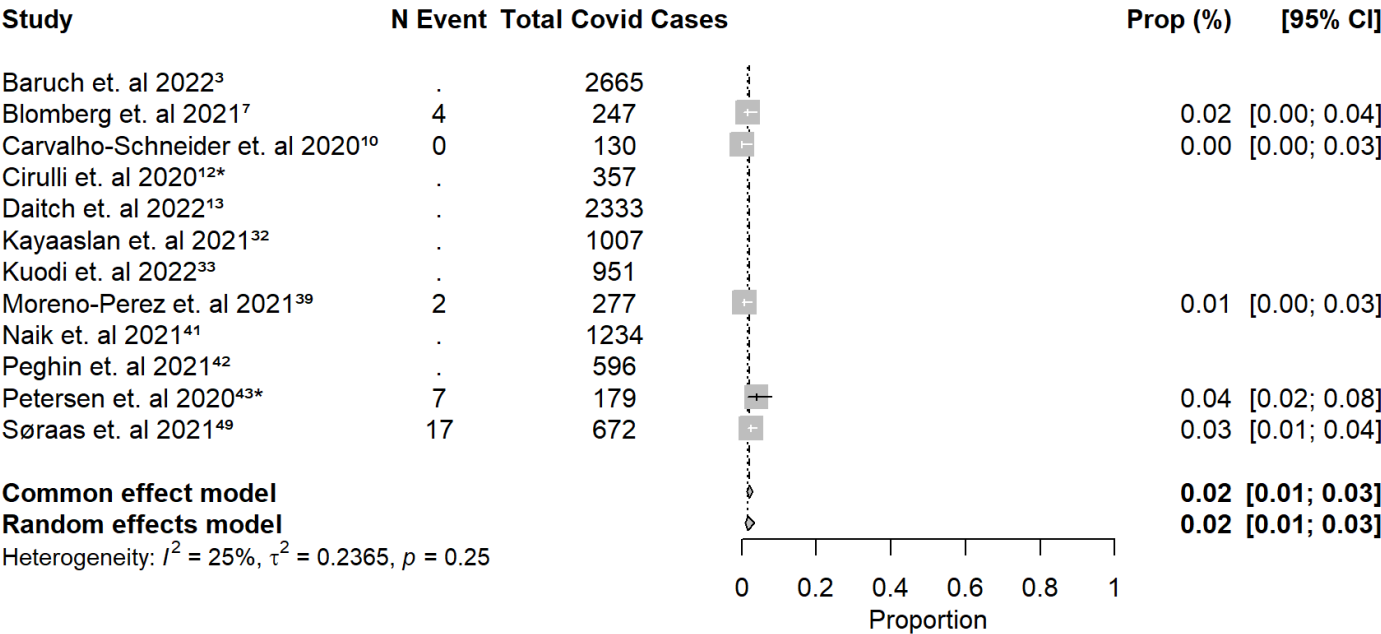


\* indicates value estimated from a figure



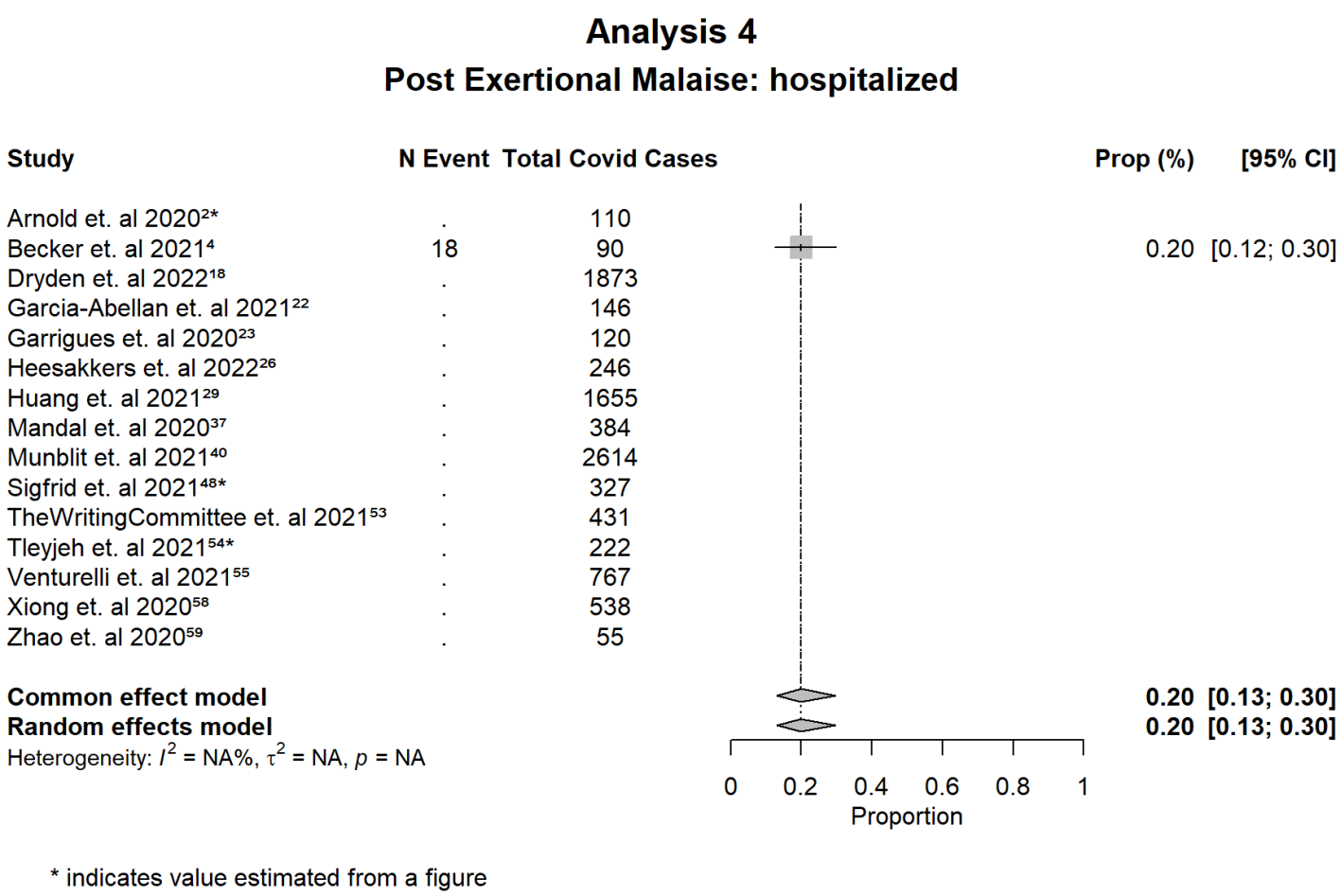
Analysis 4

Fever Chills Sweats Or Flushing: non-hospitalized and mixed



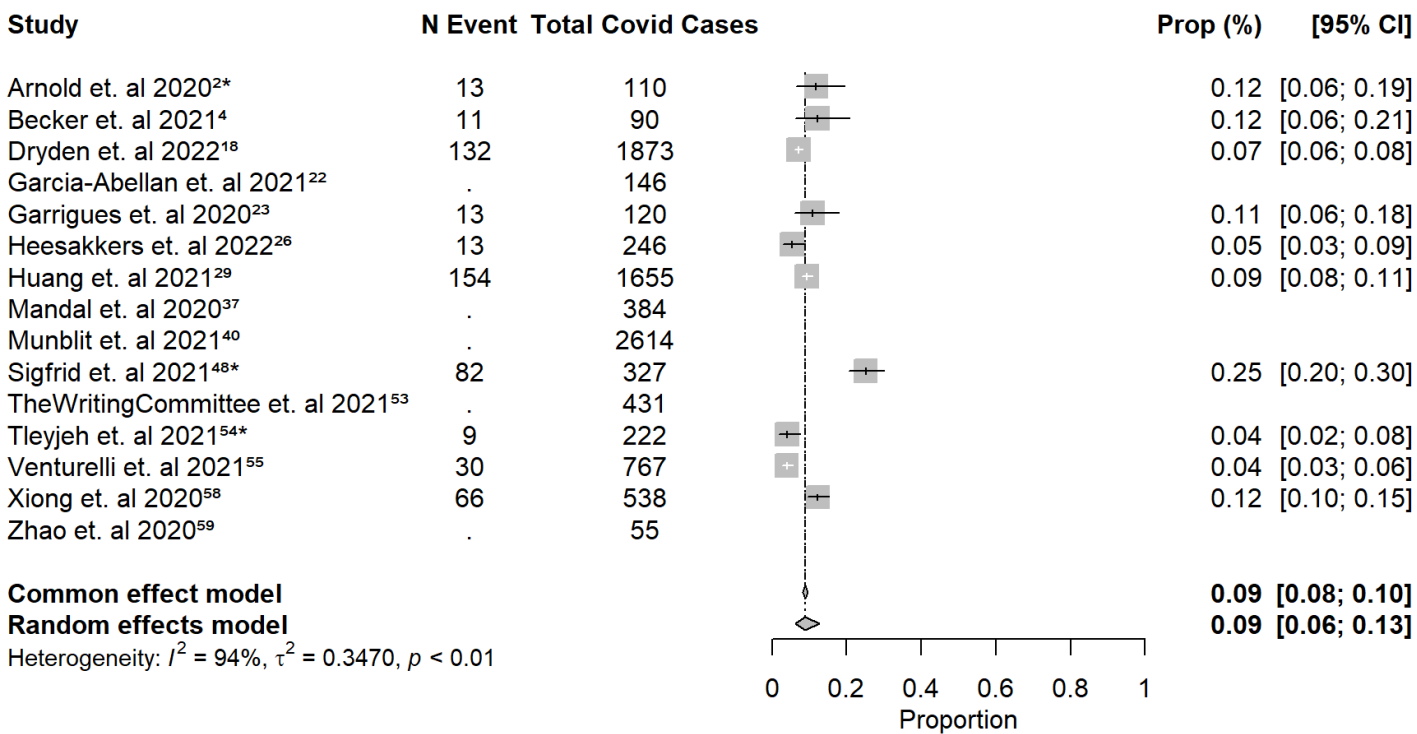
\* indicates value estimated from a figure

Post Exertional Malaise:



# Cardiac Symptoms Including Chest Pain:

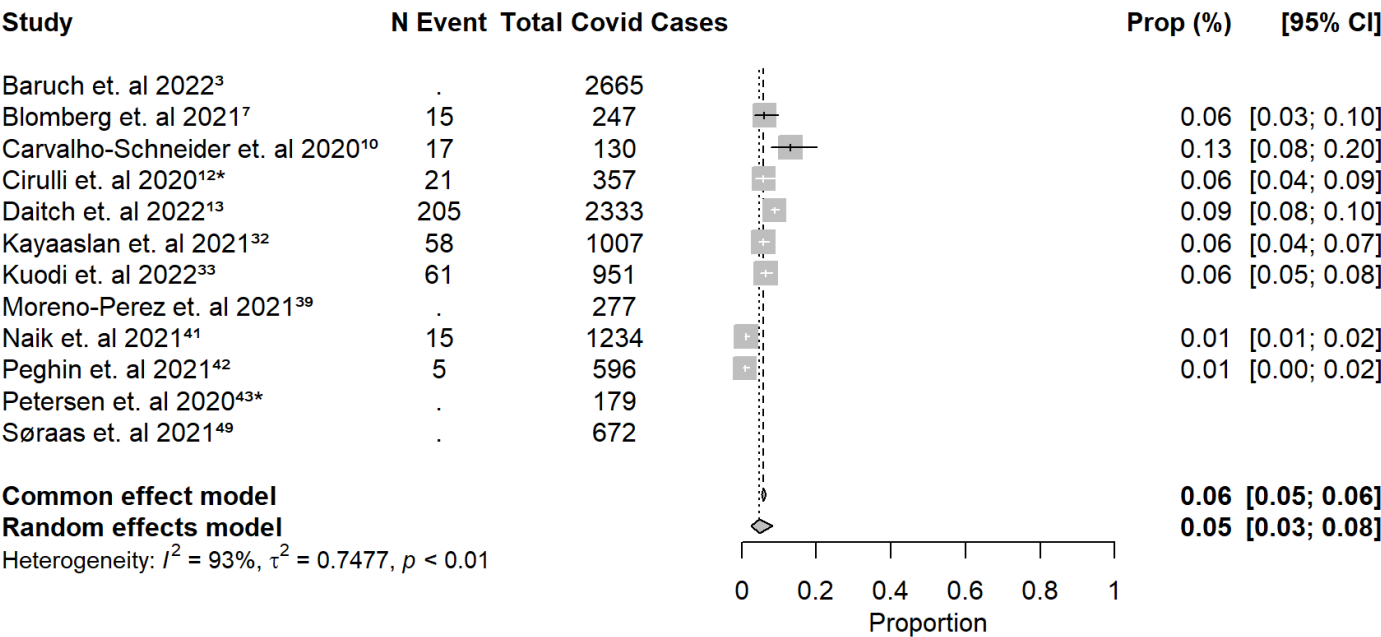
Analysis 4  
Cardiac Symptoms Including Chest Pain: hospitalized



\* indicates value estimated from a figure

Analysis 4

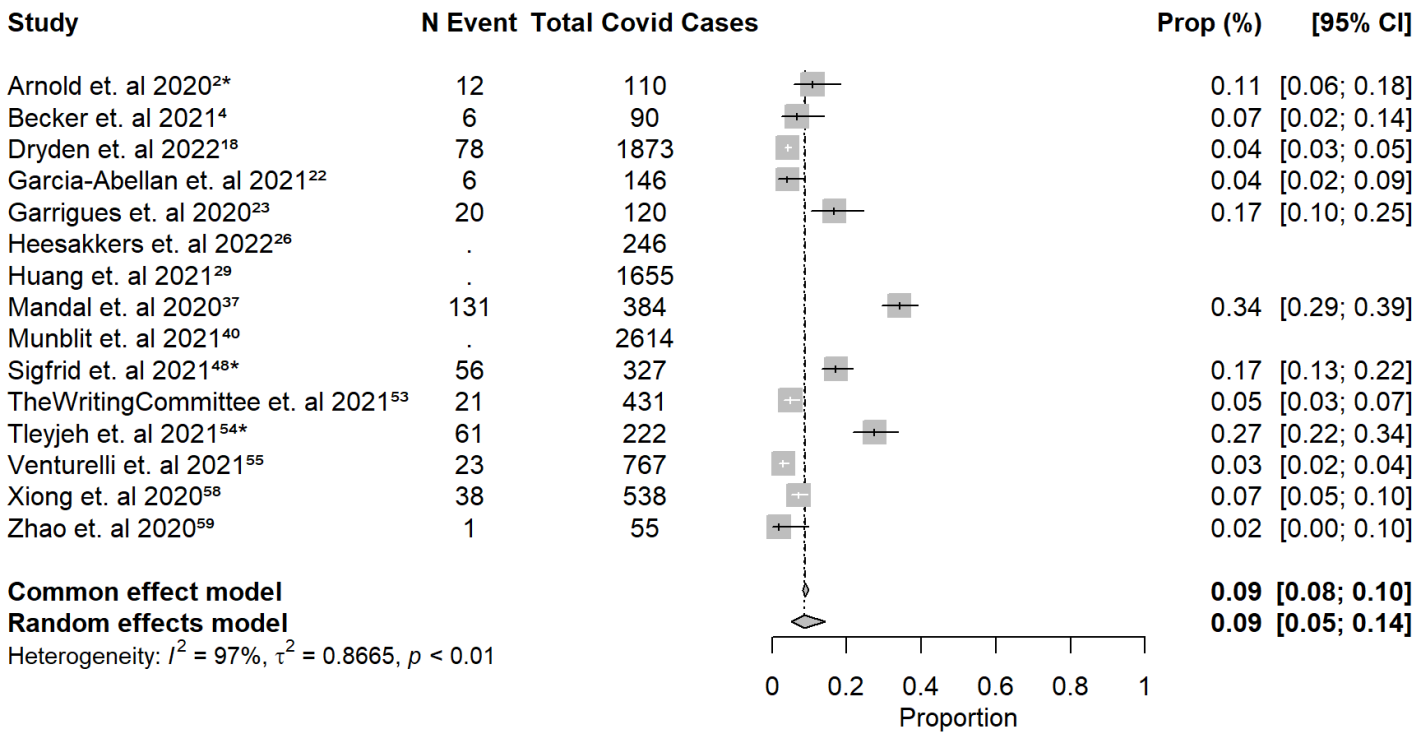
Cardiac Symptoms Including Chest Pain: non-hospitalized and mixed



\* indicates value estimated from a figure

Persistant Cough:

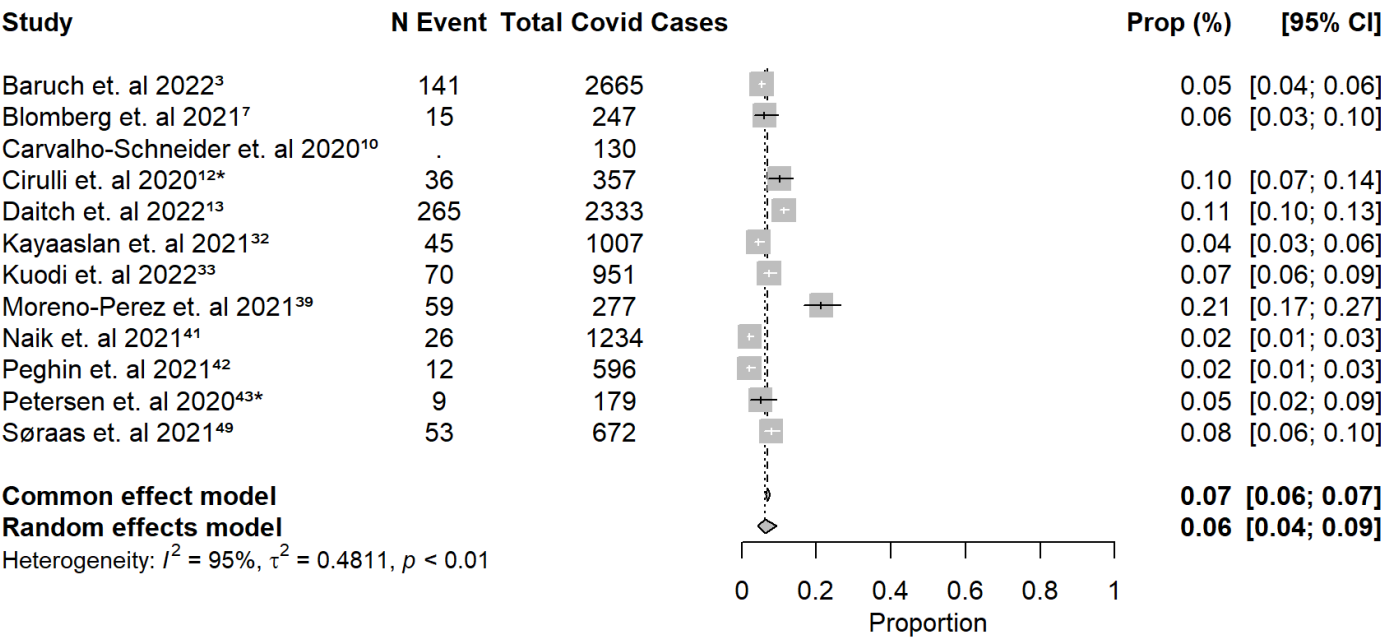
Analysis 4  
Persistant Cough: hospitalized



\* indicates value estimated from a figure

Analysis 4

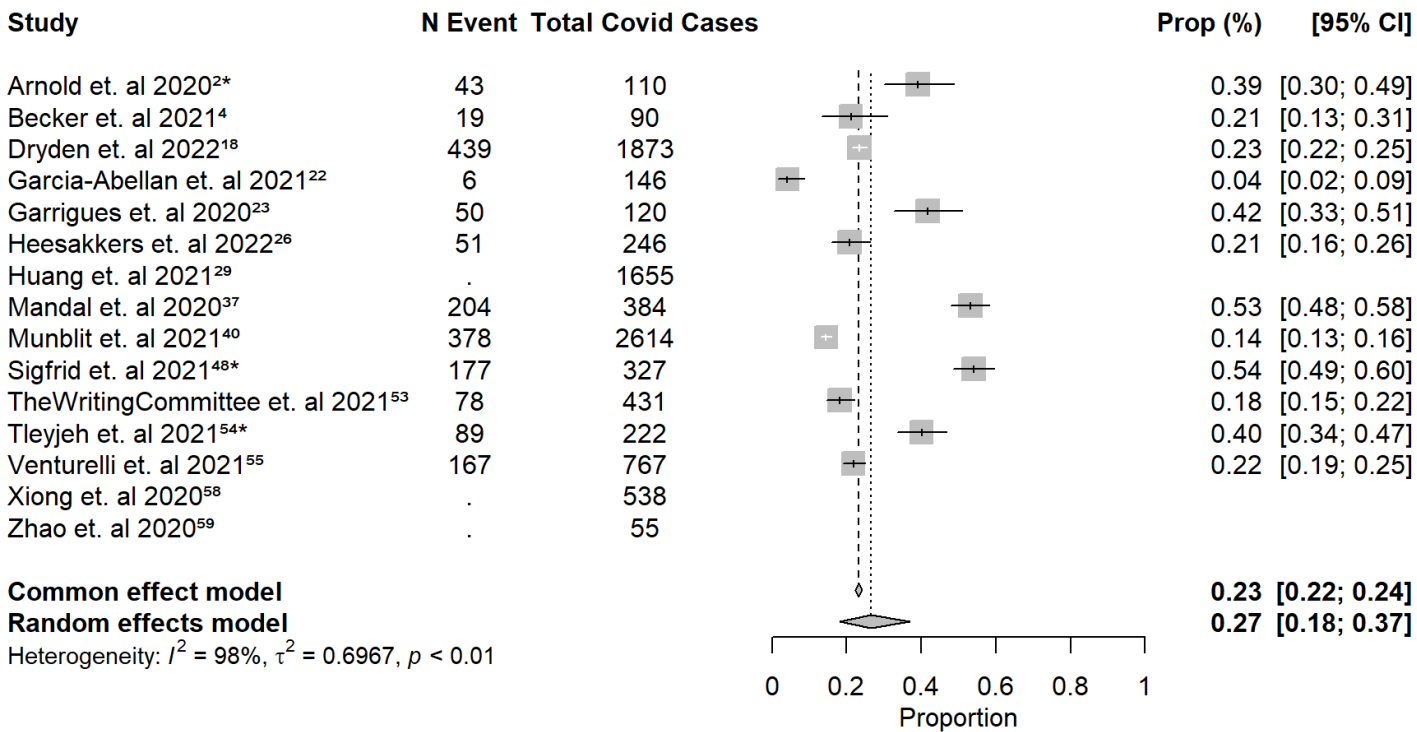
Persistant Cough: non-hospitalized and mixed



\* indicates value estimated from a figure

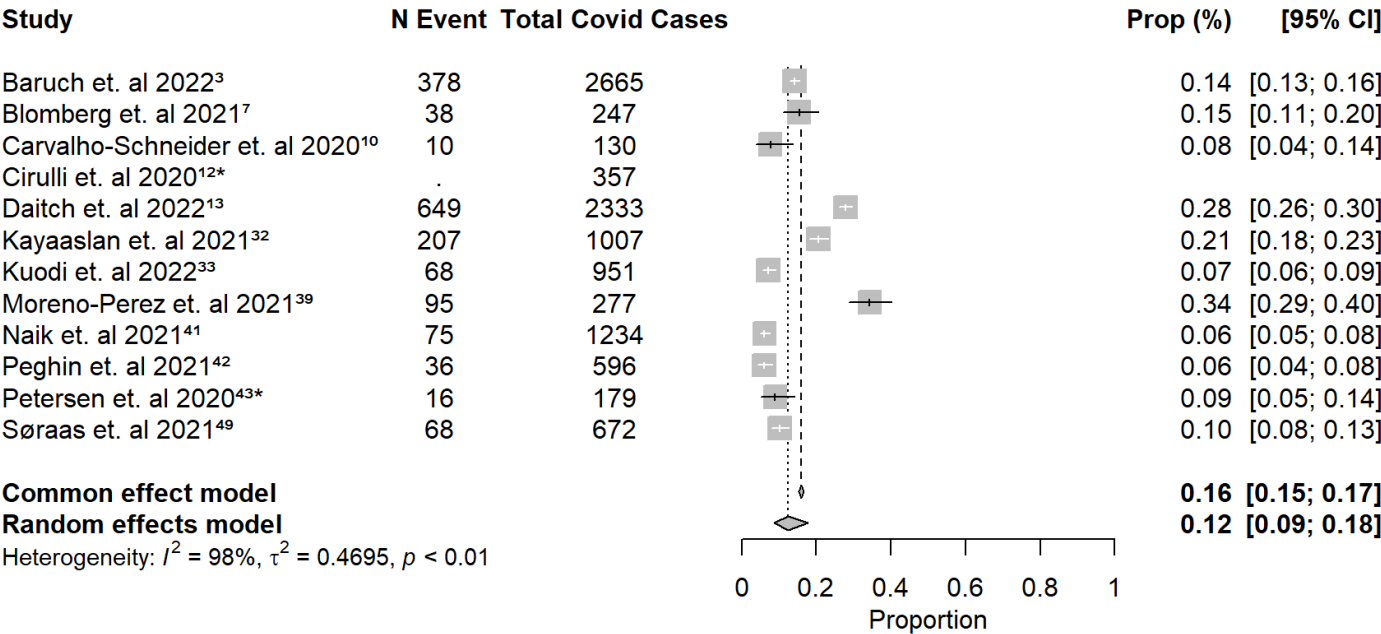
Shortness Of Breath:

Analysis 4  
Shortness Of Breath: hospitalized



\* indicates value estimated from a figure

# Analysis 4 Shortness Of Breath: non-hospitalized and mixed

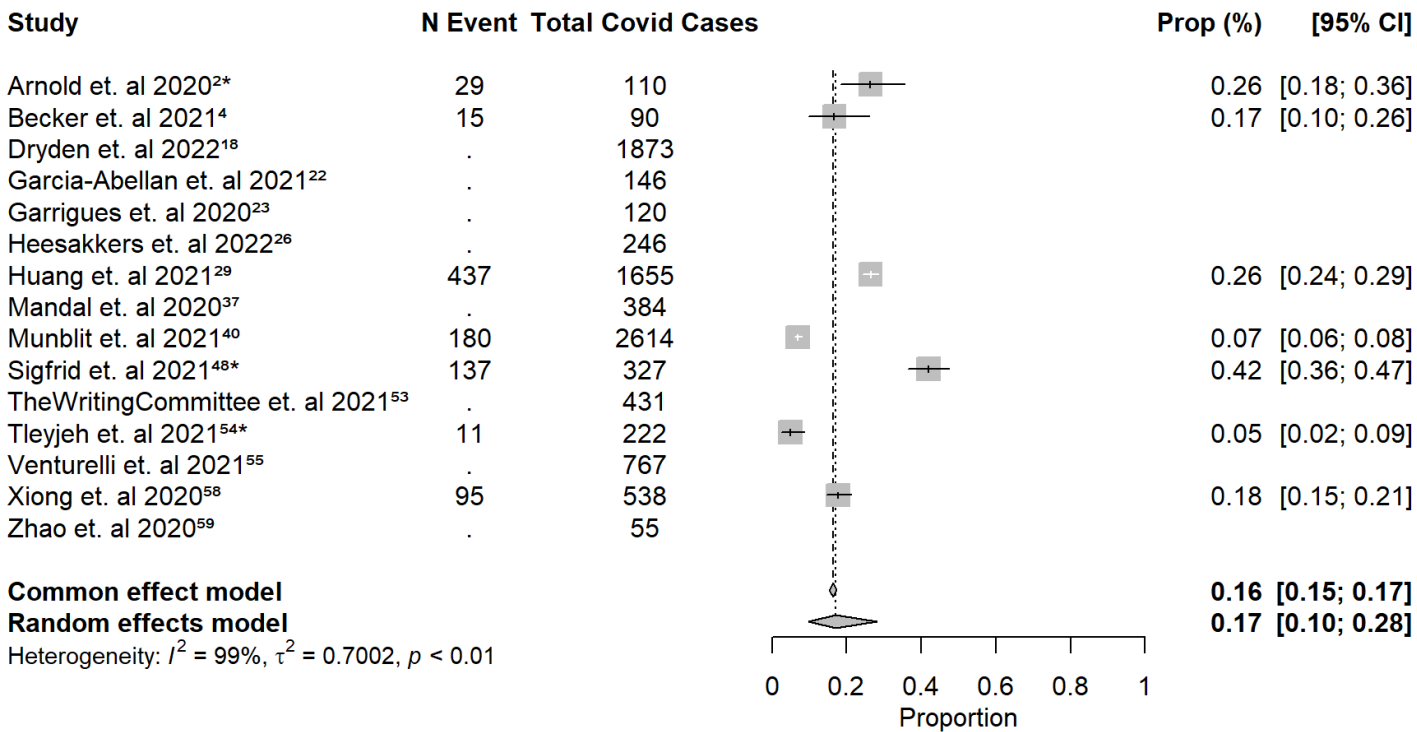


\* indicates value estimated from a figure



# Sleep Problems:

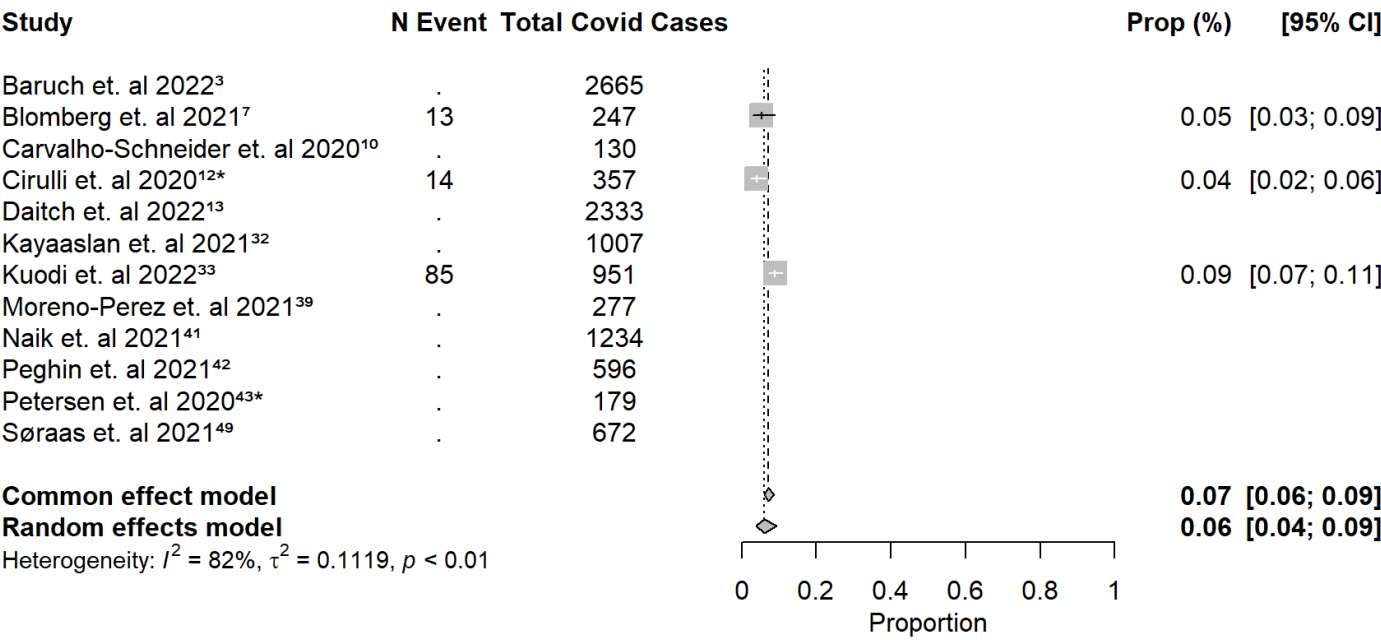
## Analysis 4 Sleep Problems: hospitalized



\* indicates value estimated from a figure

Analysis 4

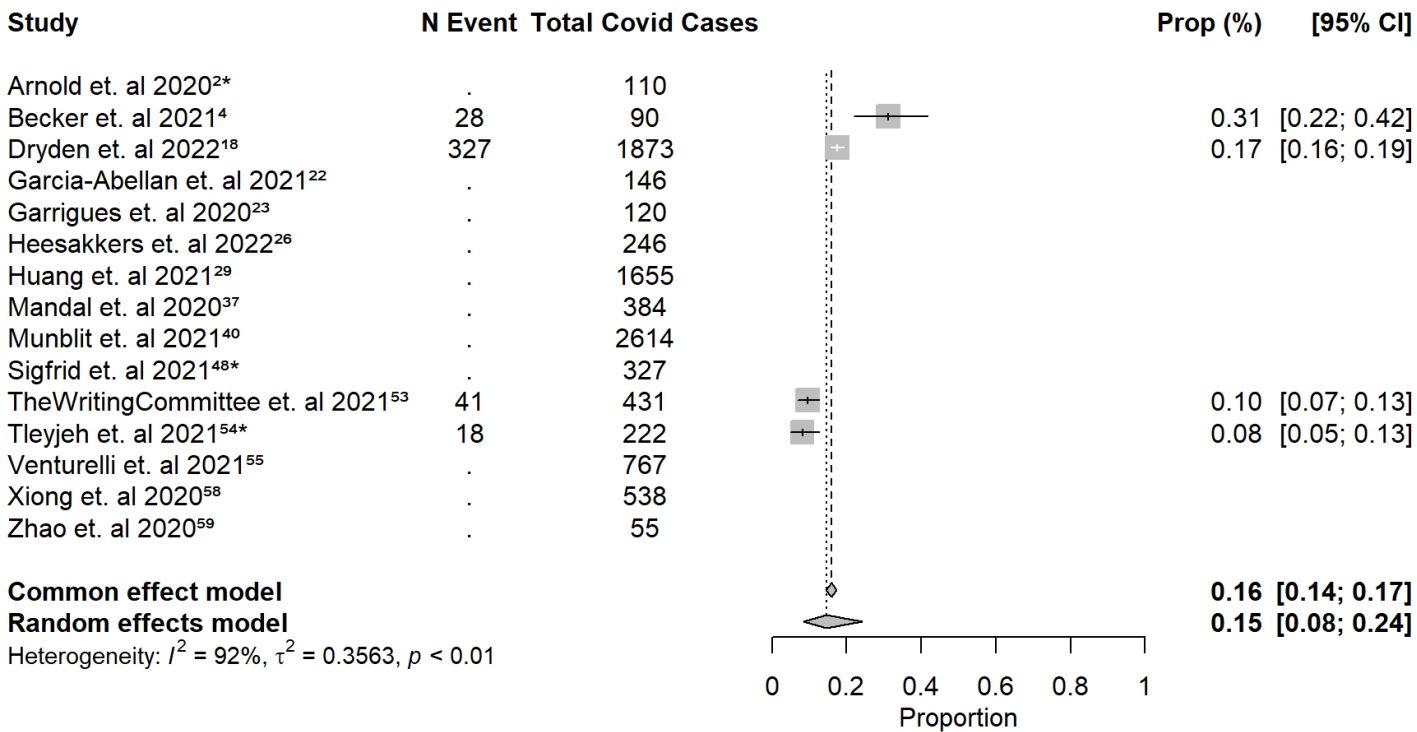
Sleep Problems: non-hospitalized and mixed



\* indicates value estimated from a figure

# Problems Thinking Or Concentrating:

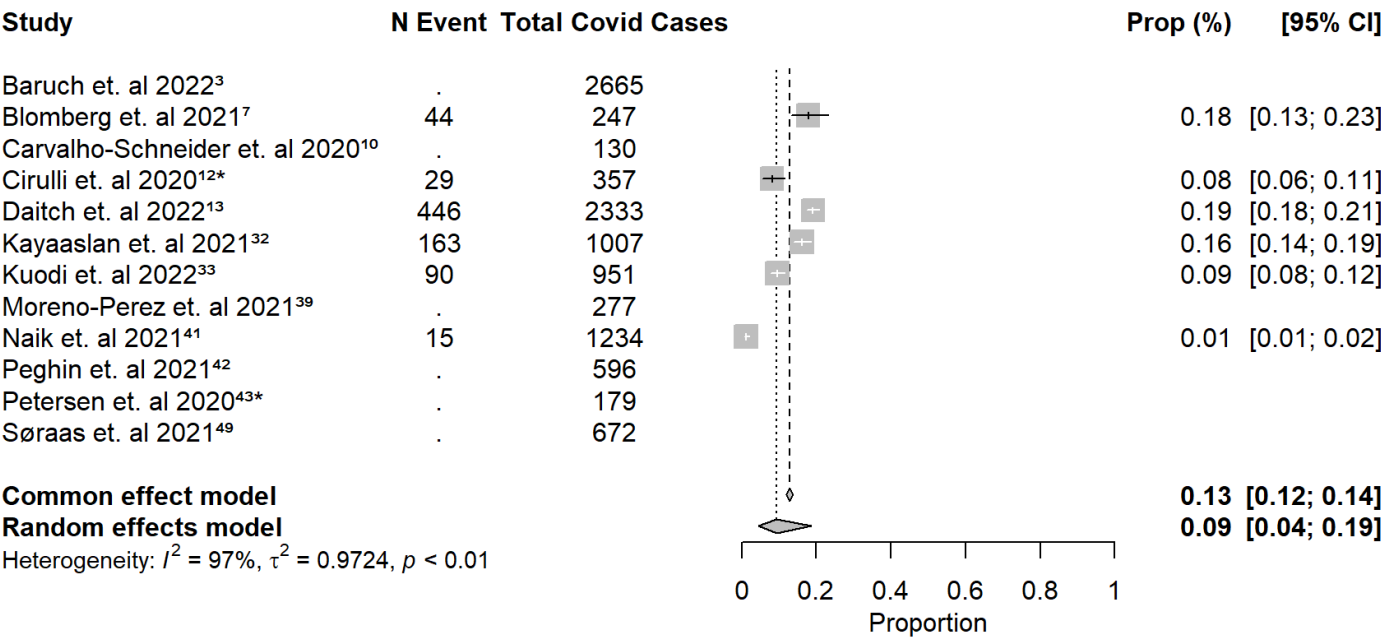
## Analysis 4 Problems Thinking Or Concentrating: hospitalized



\* indicates value estimated from a figure

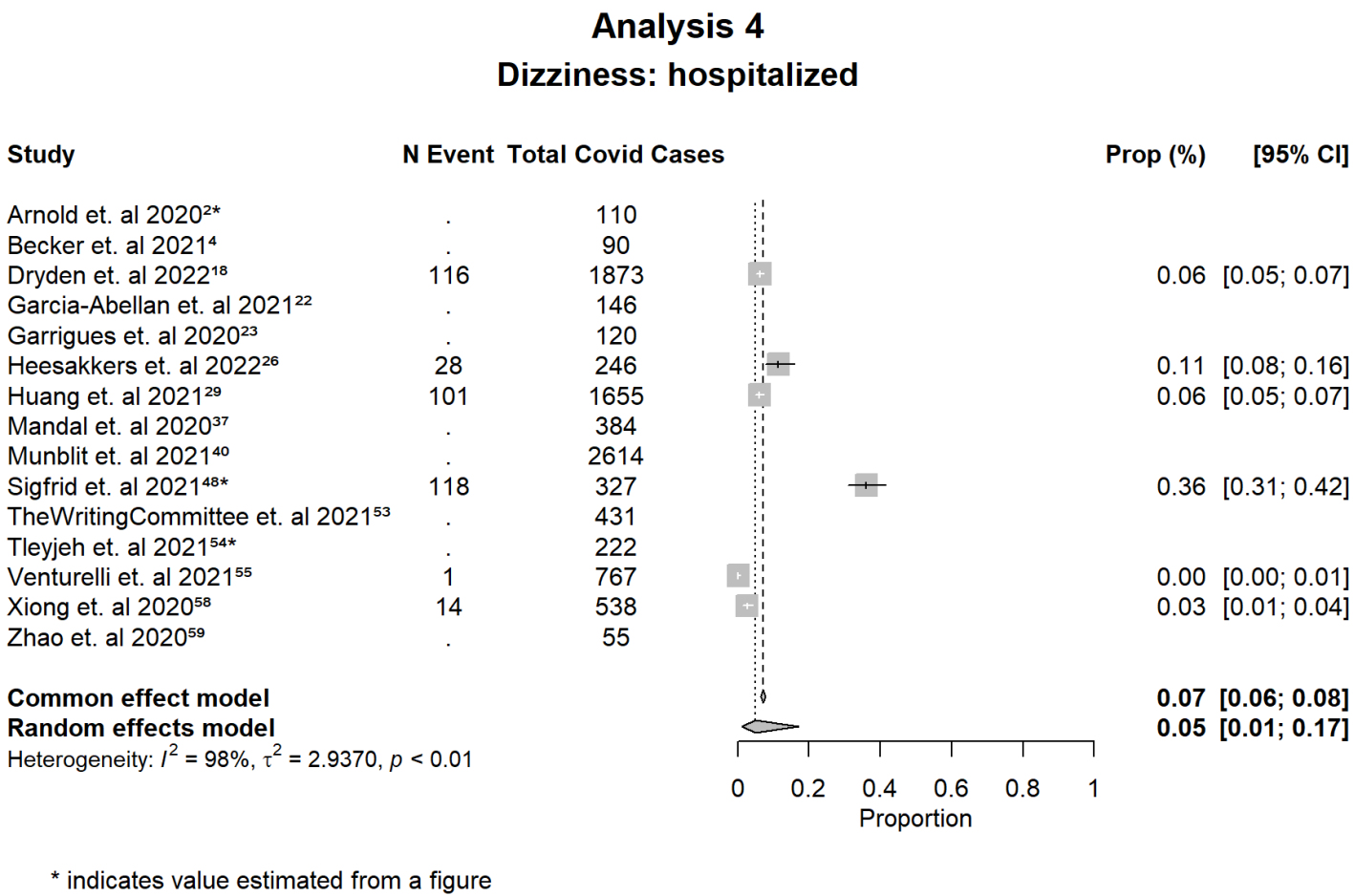
Analysis 4

Problems Thinking Or Concentrating: non-hospitalized and mixed

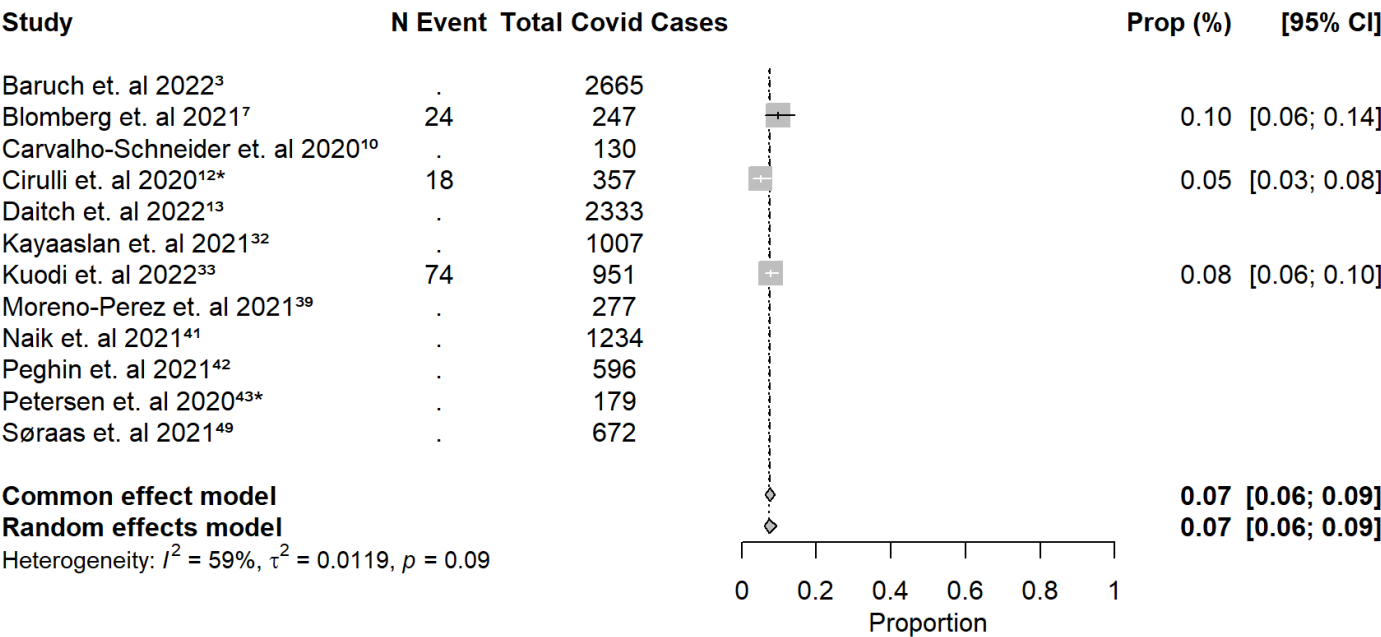


\* indicates value estimated from a figure

Dizziness:

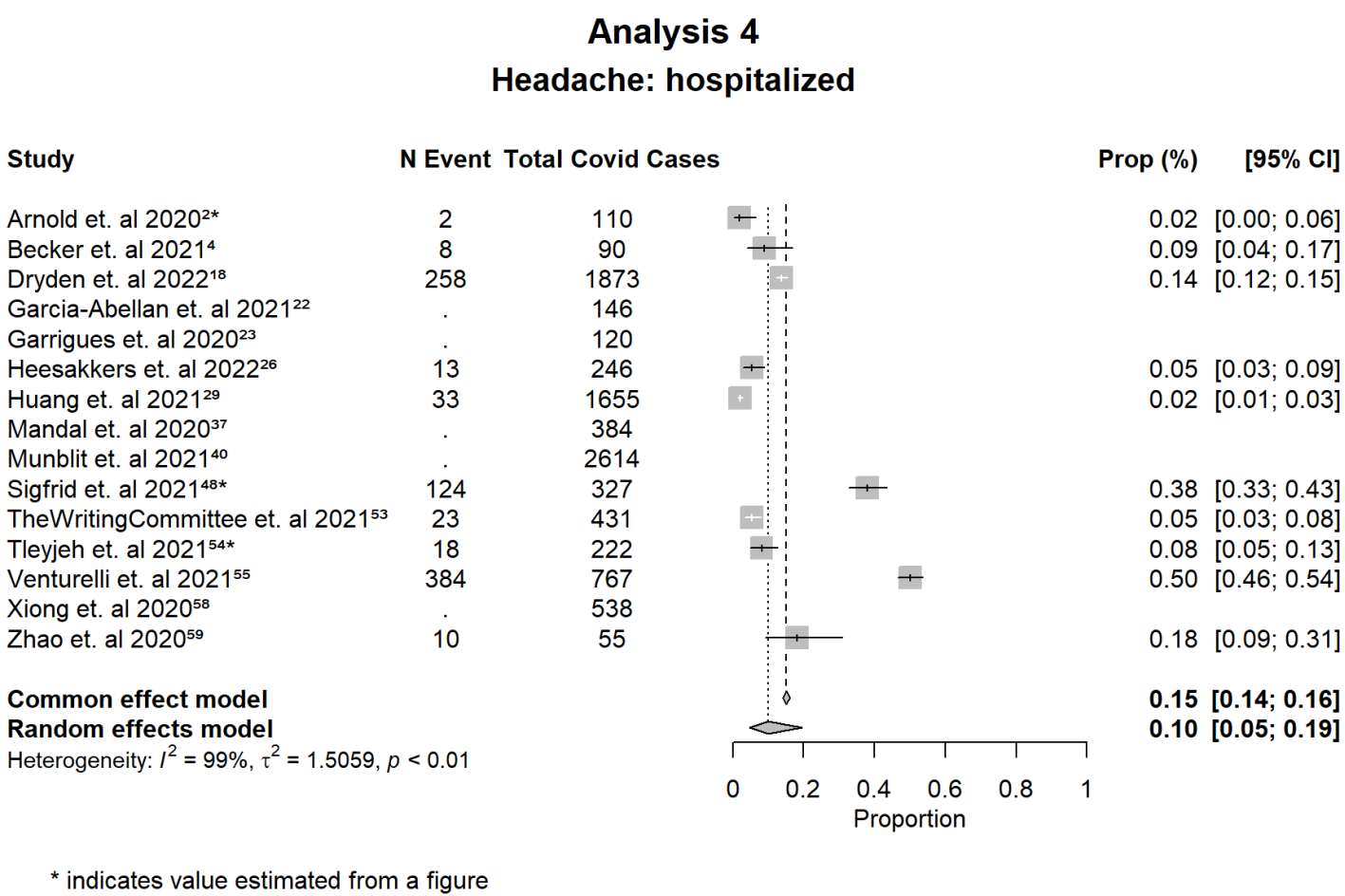


Analysis 4  
Dizziness: non-hospitalized and mixed

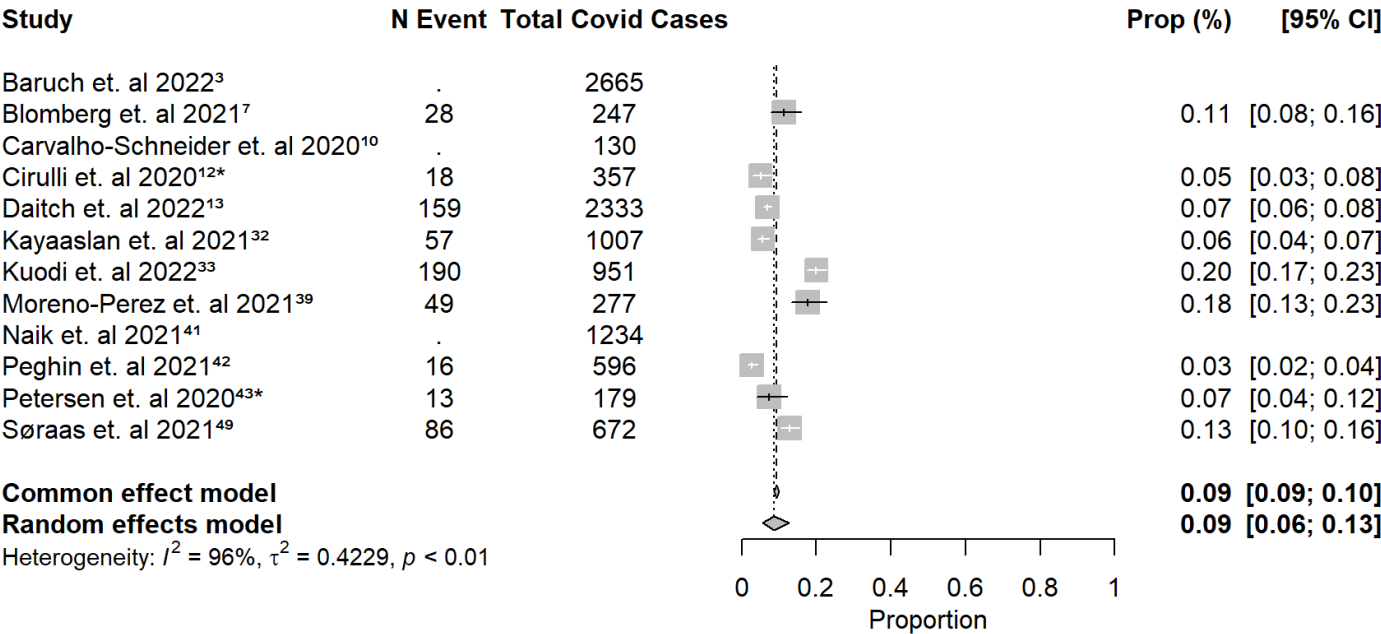


\* indicates value estimated from a figure

Headache:



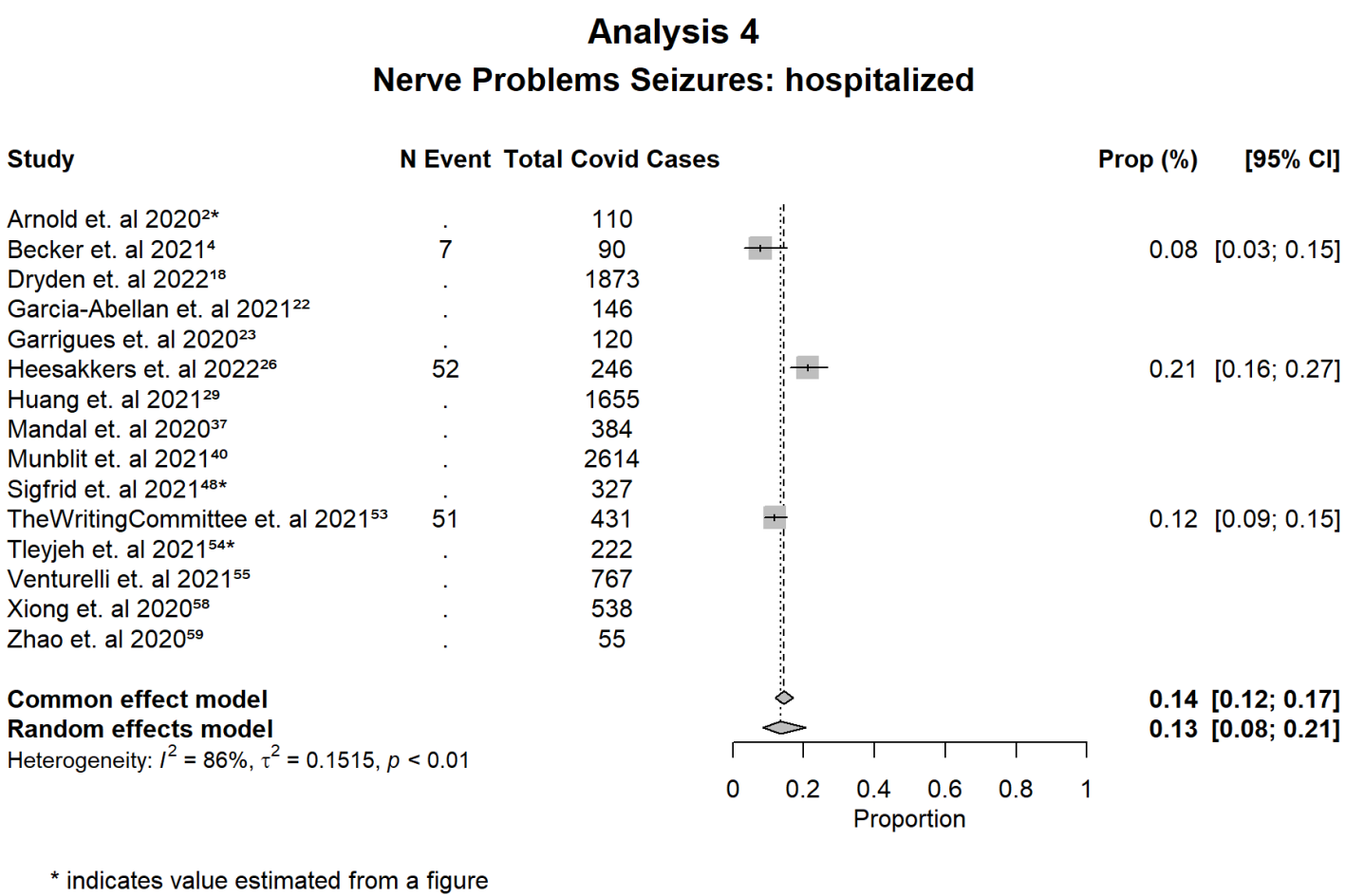
Analysis 4  
Headache: non-hospitalized and mixed



\* indicates value estimated from a figure

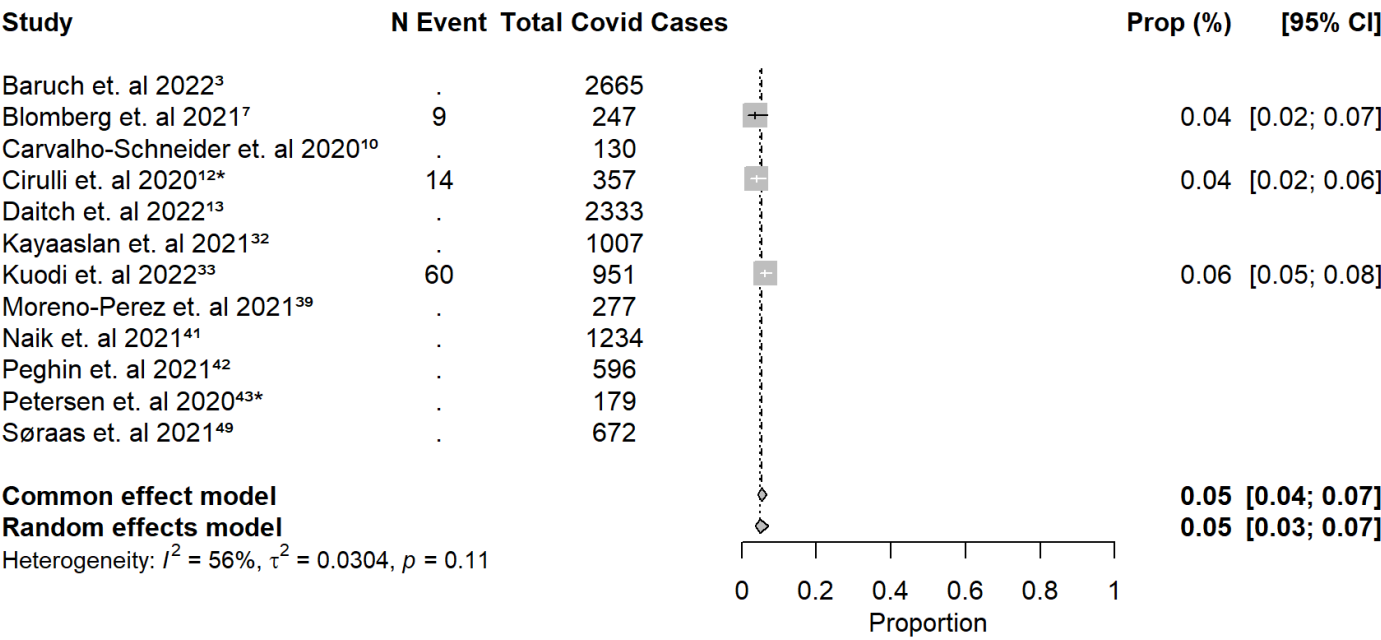


Nerve Problems Seizures:



Analysis 4

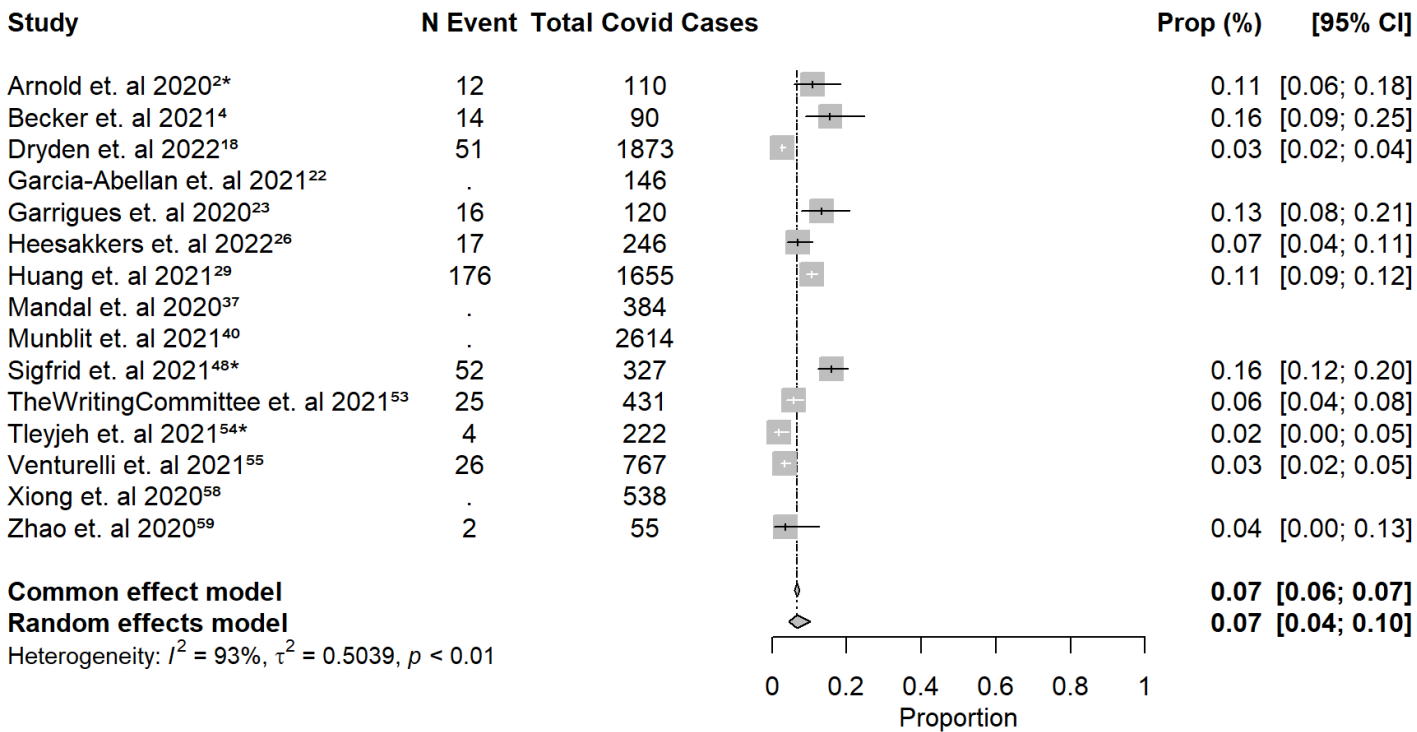
Nerve Problems Seizures: non-hospitalized and mixed



\* indicates value estimated from a figure

# Loss Of Or Change In Smell Or Taste:

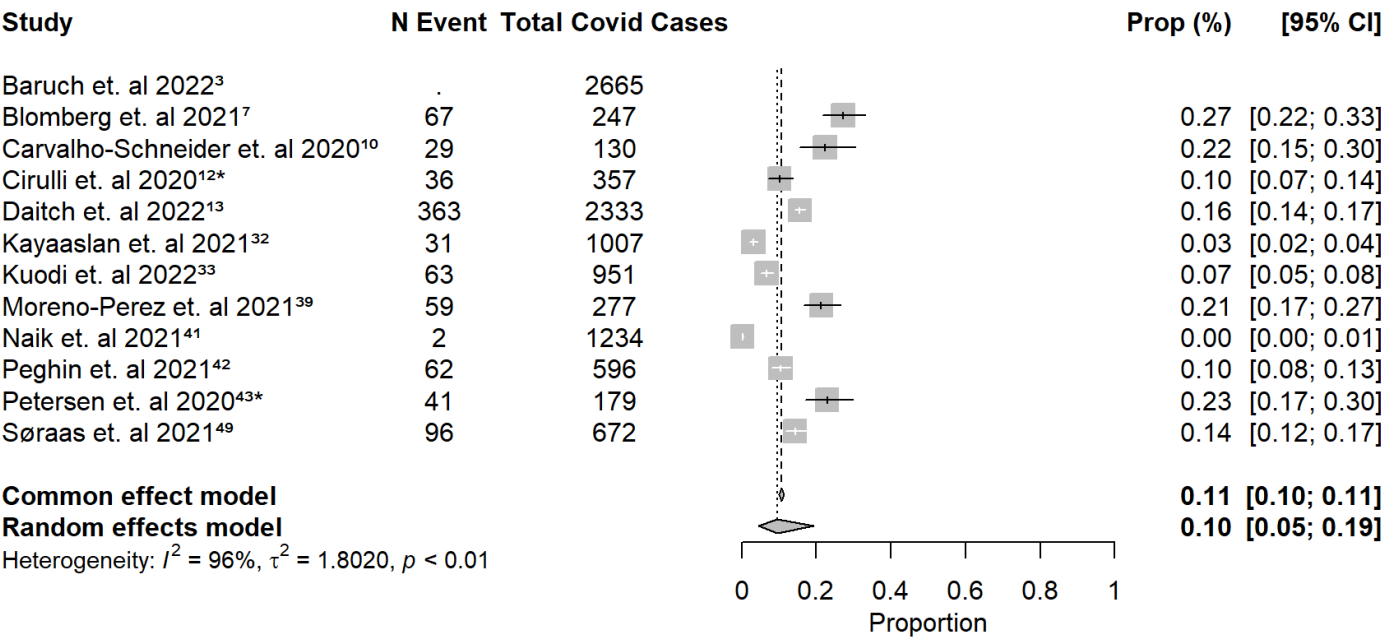
## Analysis 4 Loss Of Or Change In Smell Or Taste: hospitalized



\* indicates value estimated from a figure

Analysis 4

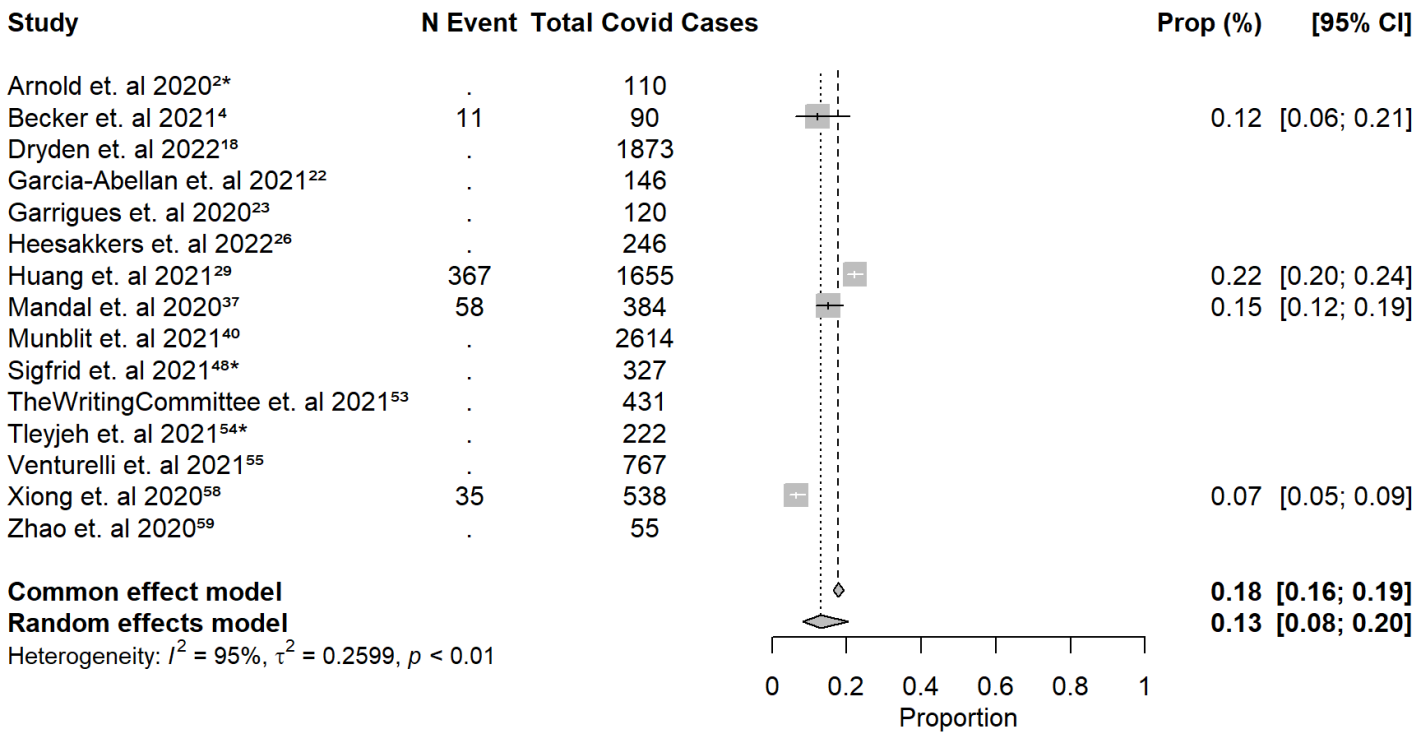
Loss Of Or Change In Smell Or Taste: non-hospitalized and mixed



\* indicates value estimated from a figure

# Mental Health Concerns:

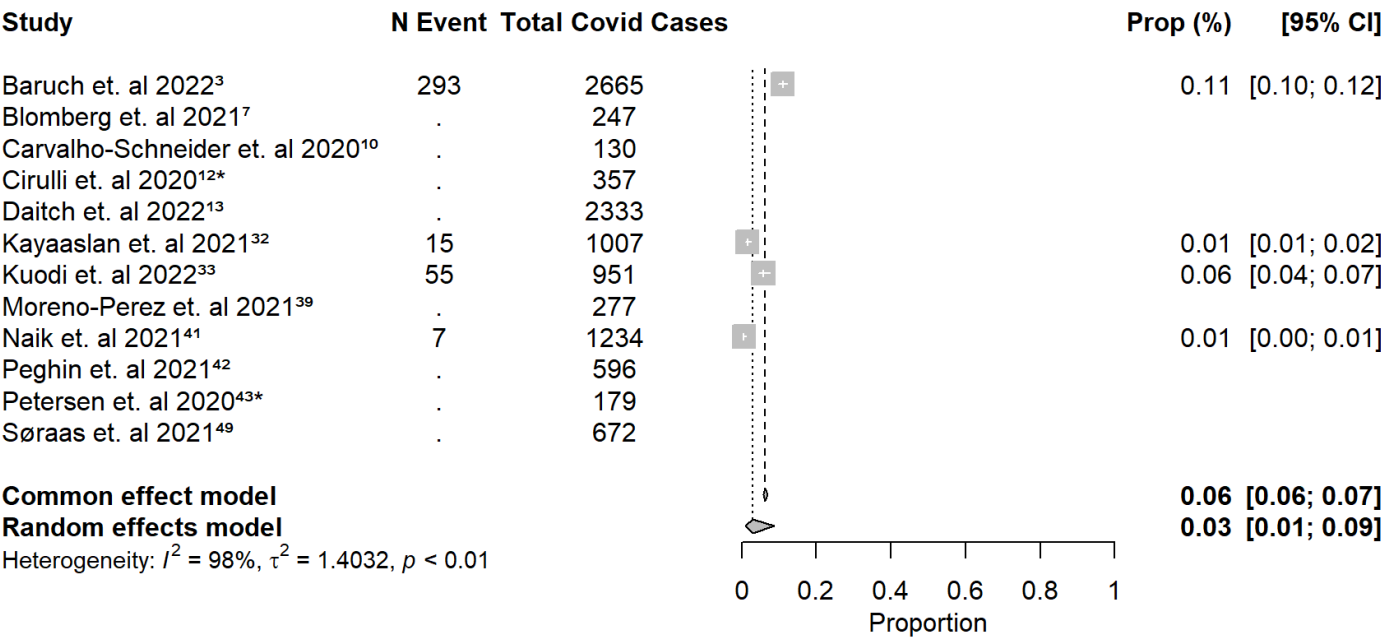
## Analysis 4 Mental Health Concerns: hospitalized



\* indicates value estimated from a figure

Analysis 4

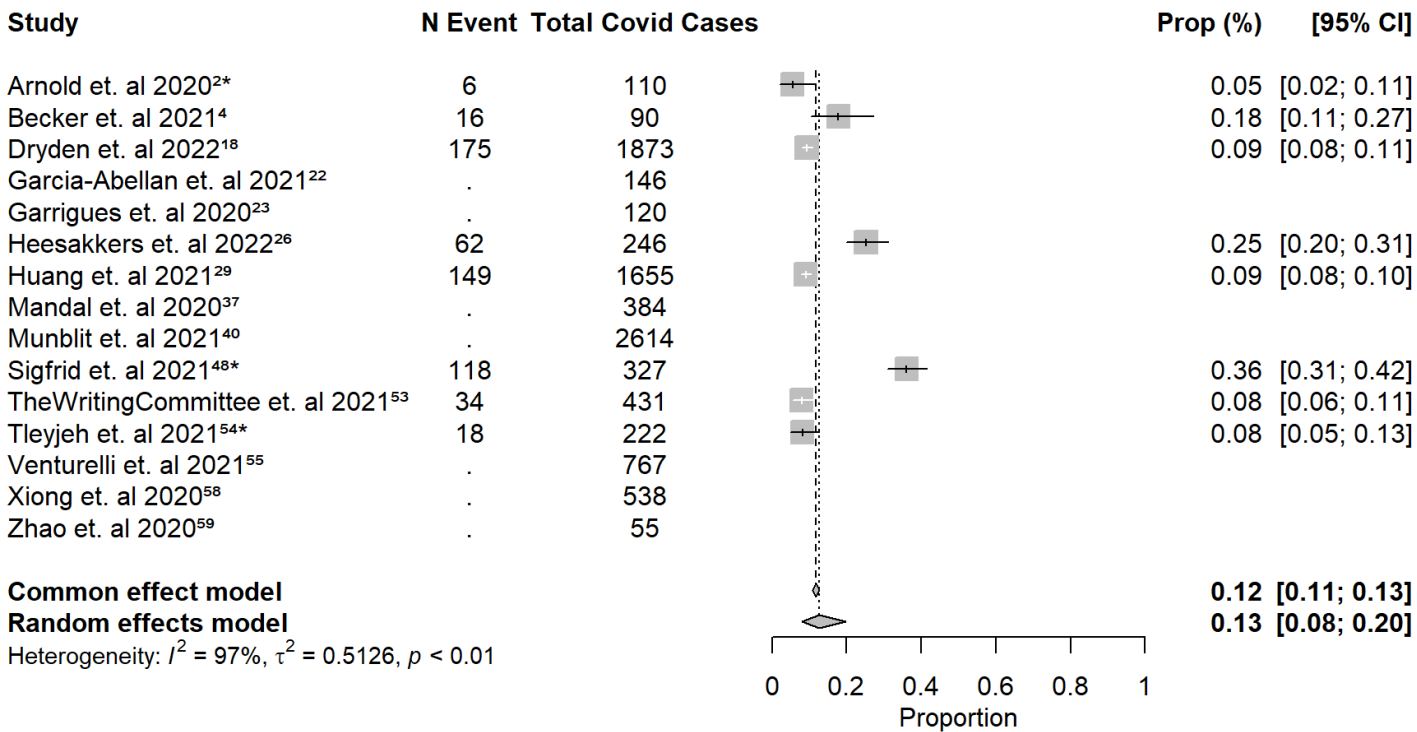
Mental Health Concerns: non-hospitalized and mixed



\* indicates value estimated from a figure

Joint Muscle Pain:

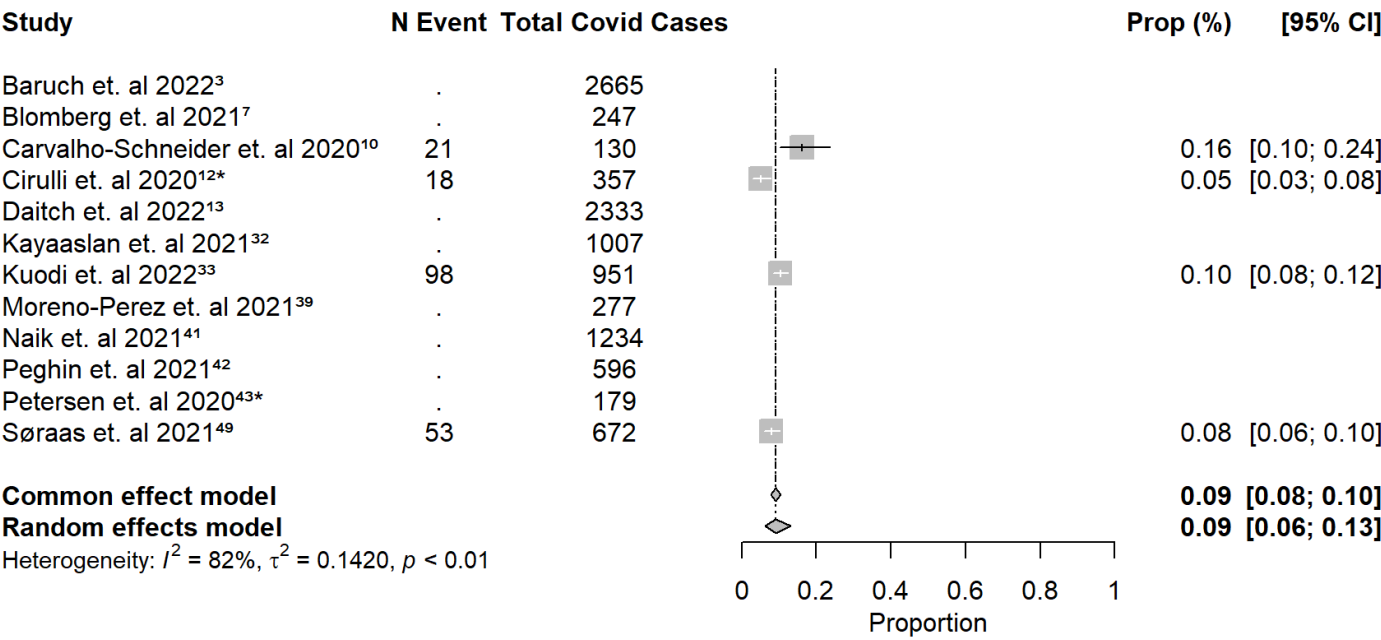
Analysis 4  
Joint Muscle Pain: hospitalized



\* indicates value estimated from a figure

Analysis 4

Joint Muscle Pain: non-hospitalized and mixed

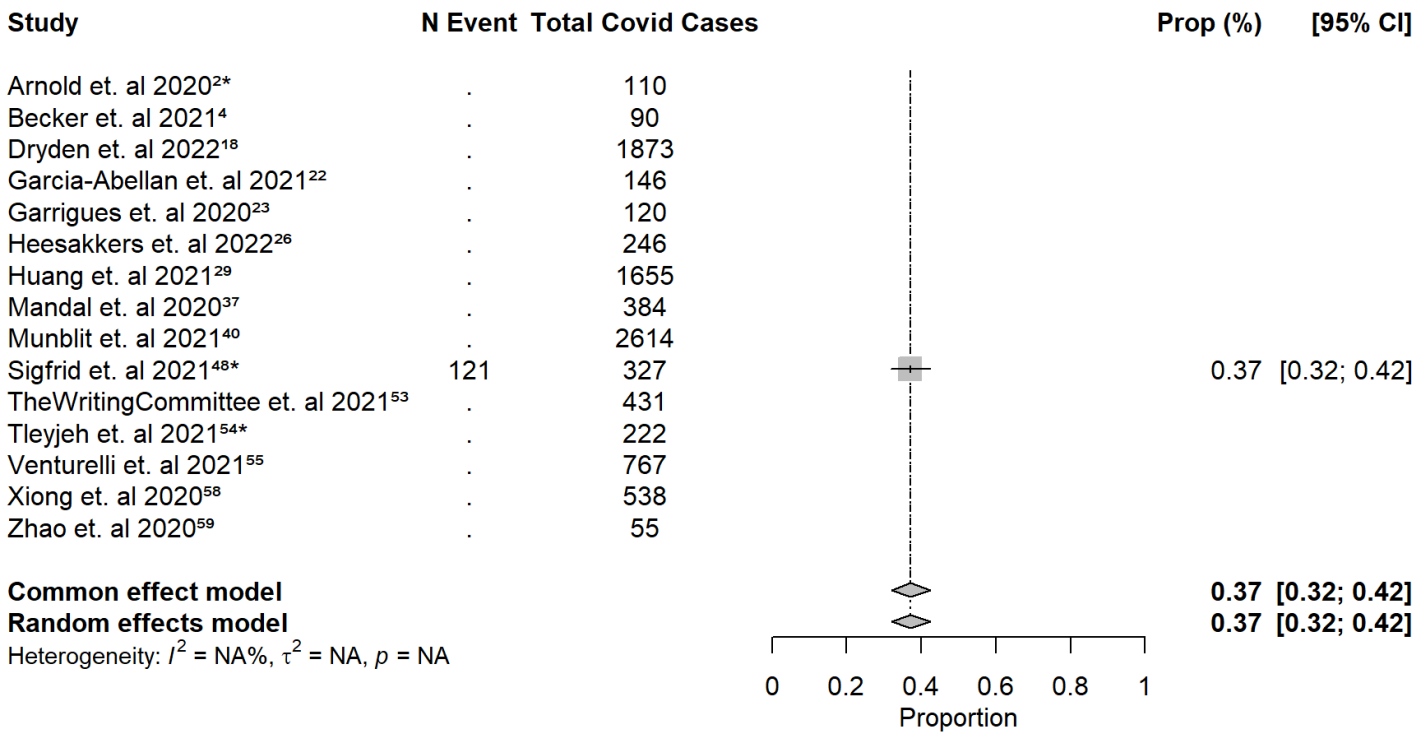


\* indicates value estimated from a figure



Weakness In Arms Or Legs:

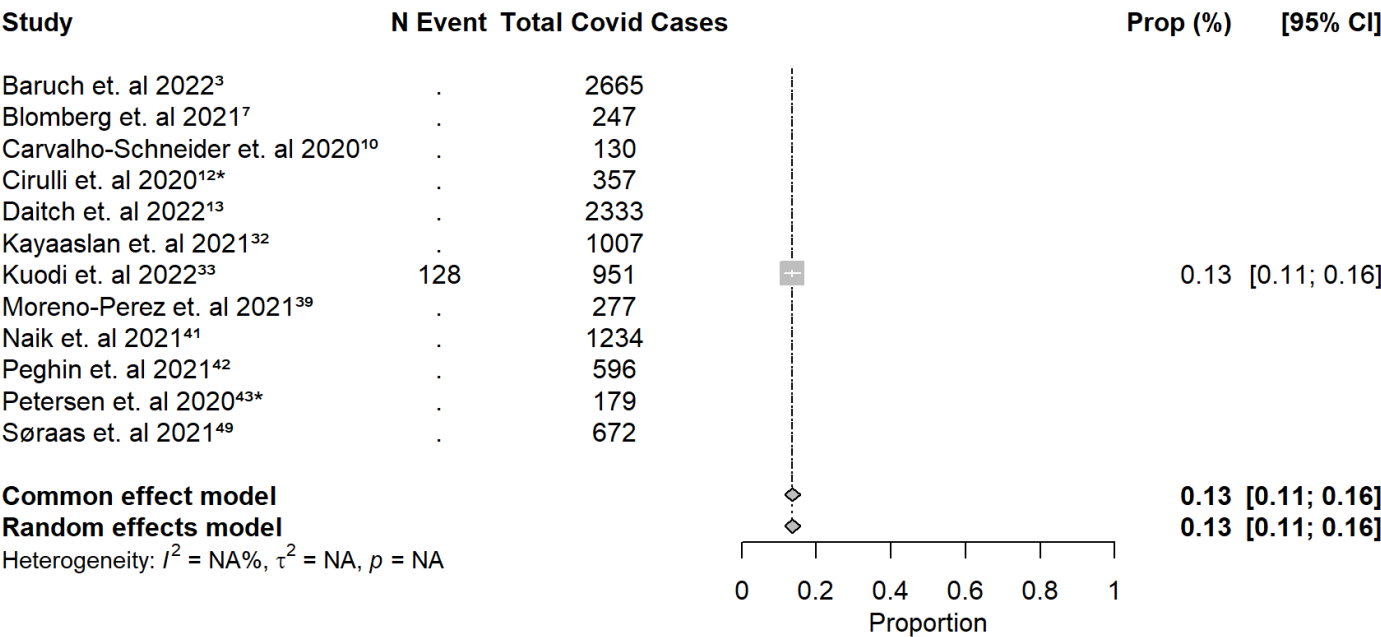
Analysis 4  
Weakness In Arms Or Legs: hospitalized



\* indicates value estimated from a figure

Analysis 4

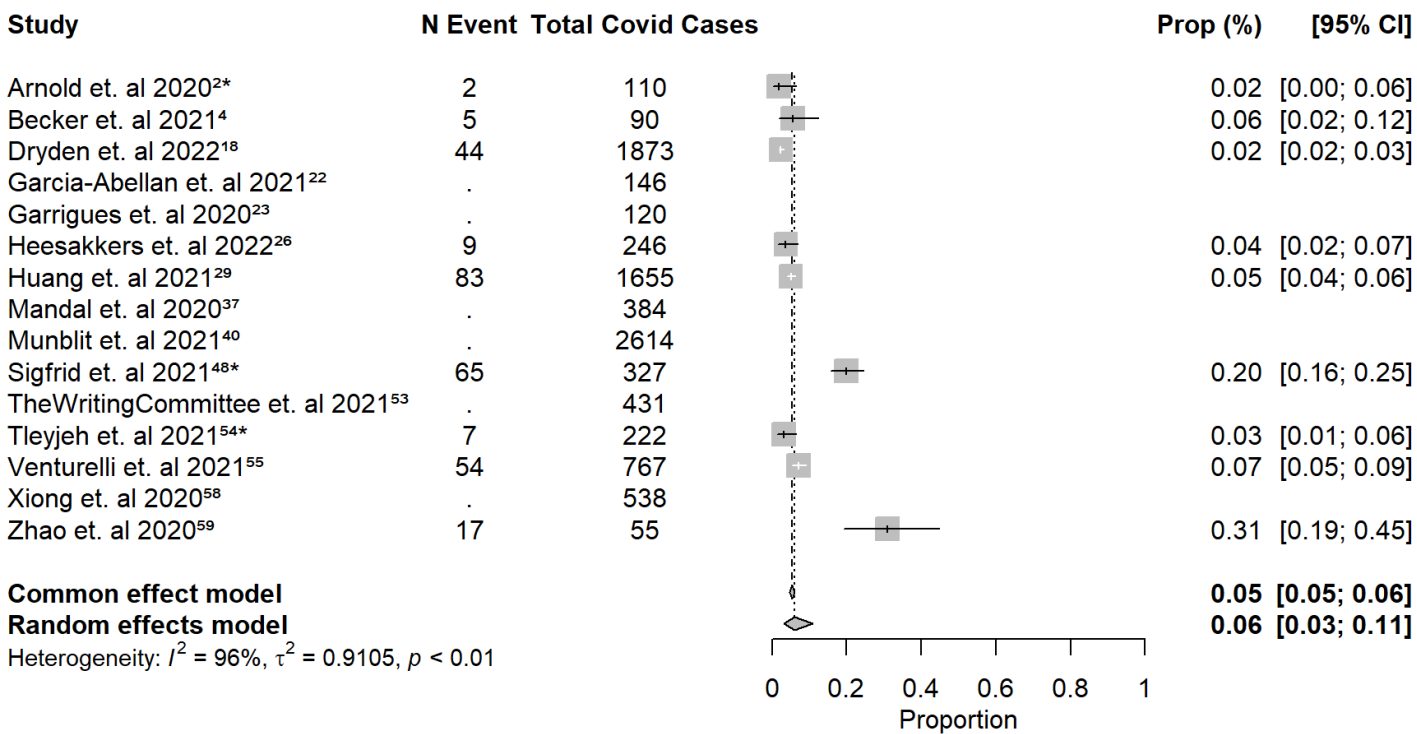
Weakness In Arms Or Legs: non-hospitalized and mixed



\* indicates value estimated from a figure

# Gi Symptoms Including Abdominal Pain:

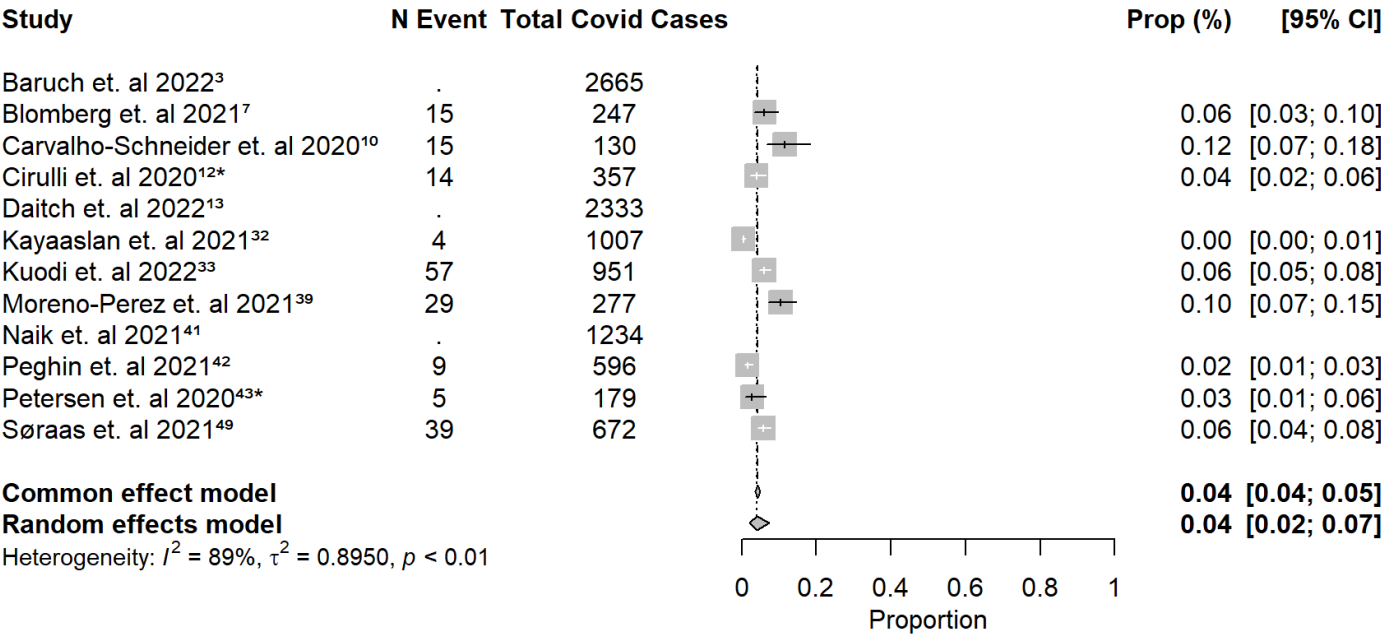
Analysis 4  
Gi Symptoms Including Abdominal Pain: hospitalized



\* indicates value estimated from a figure

Analysis 4

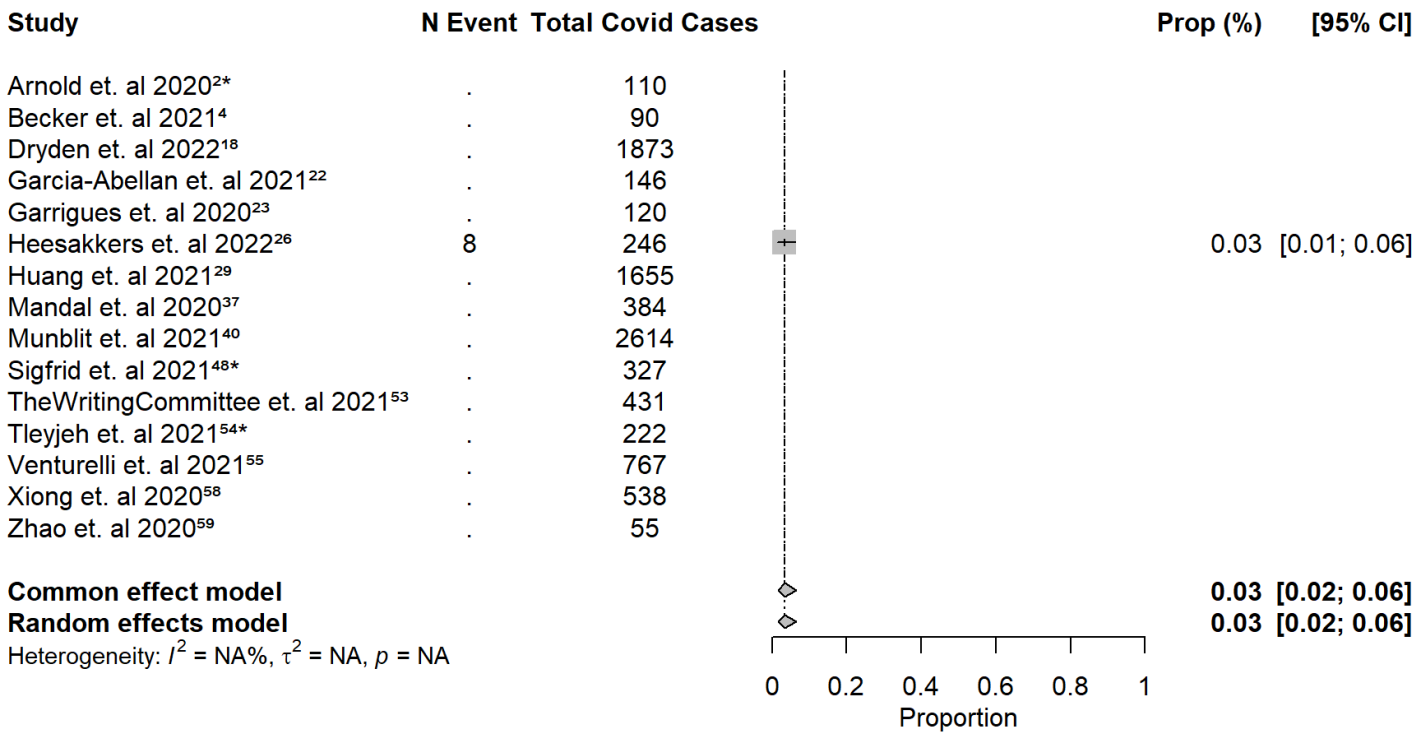
Gi Symptoms Including Abdominal Pain: non-hospitalized and mixed



\* indicates value estimated from a figure

Urinary Symptoms:

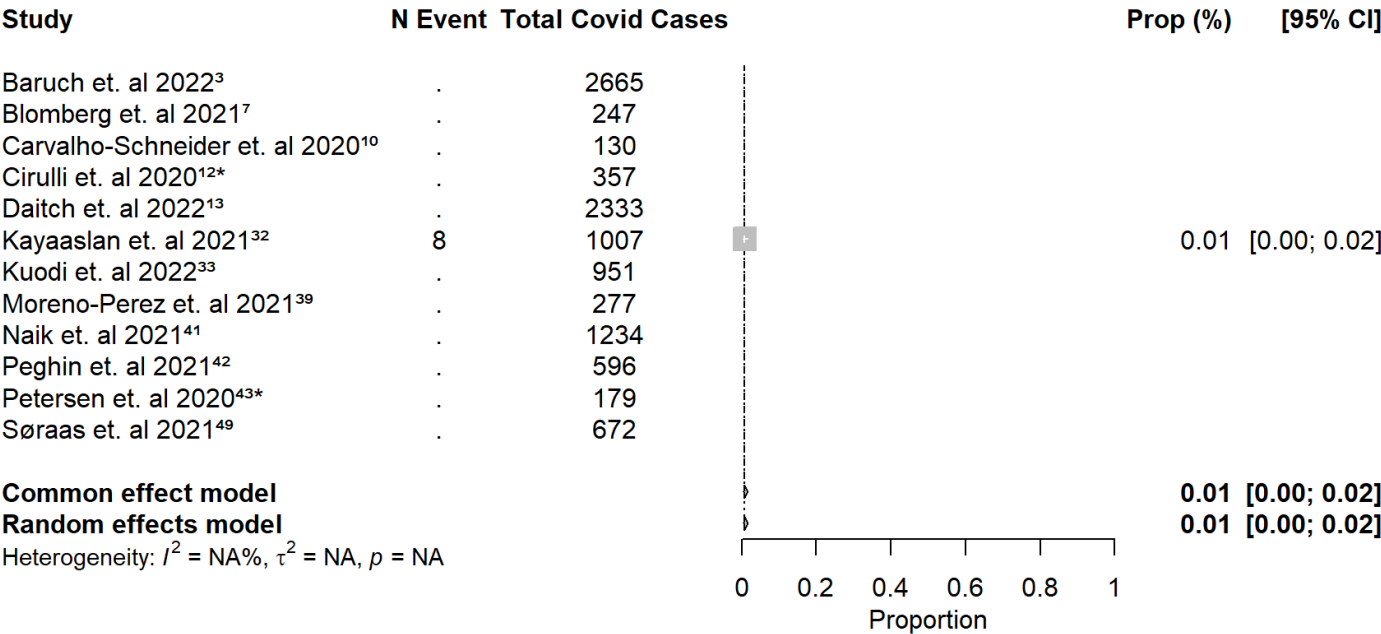
Analysis 4  
Urinary Symptoms: hospitalized



\* indicates value estimated from a figure

Analysis 4

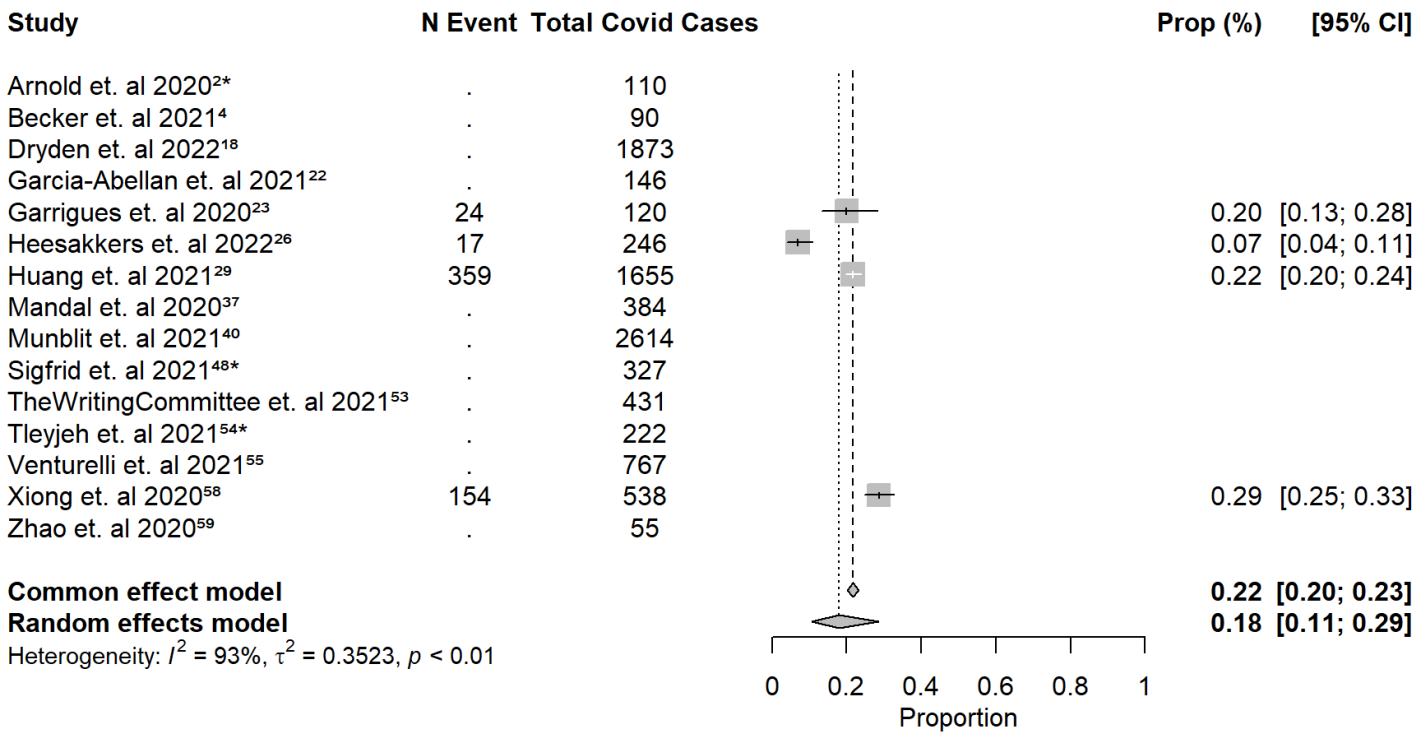
Urinary Symptoms: non-hospitalized and mixed



\* indicates value estimated from a figure

Hair Loss:

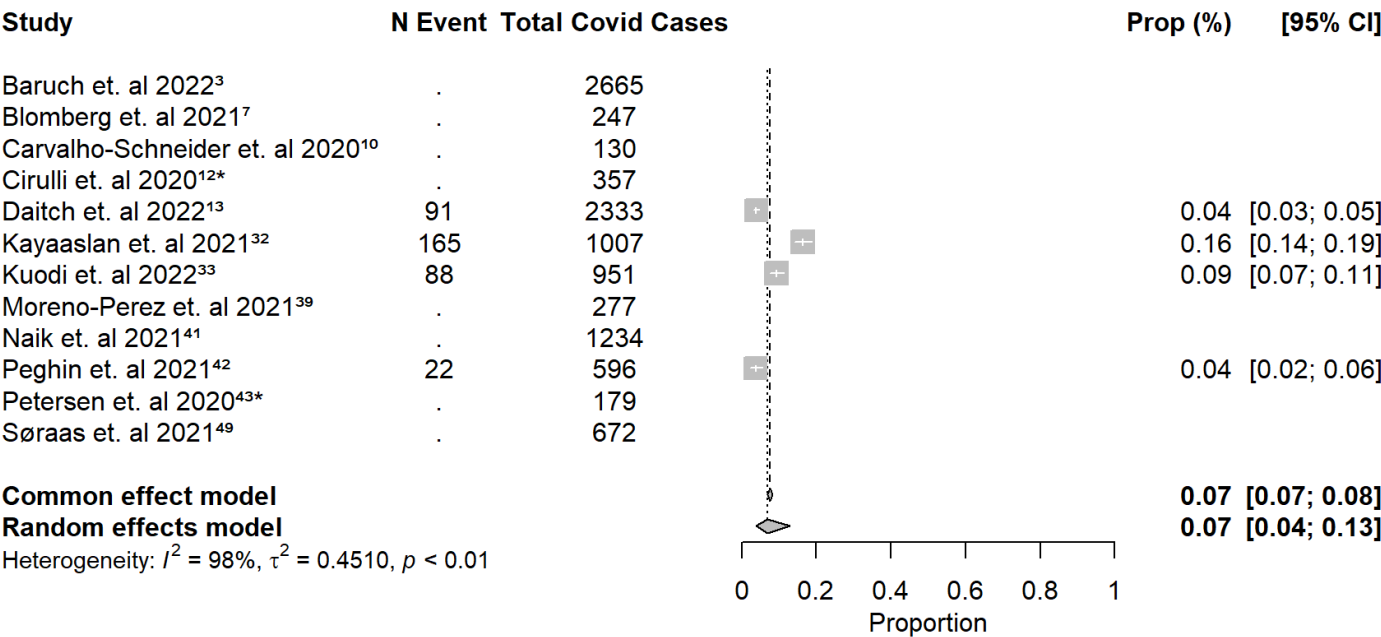
Analysis 4  
Hair Loss: hospitalized



\* indicates value estimated from a figure

Analysis 4

Hair Loss: non-hospitalized and mixed

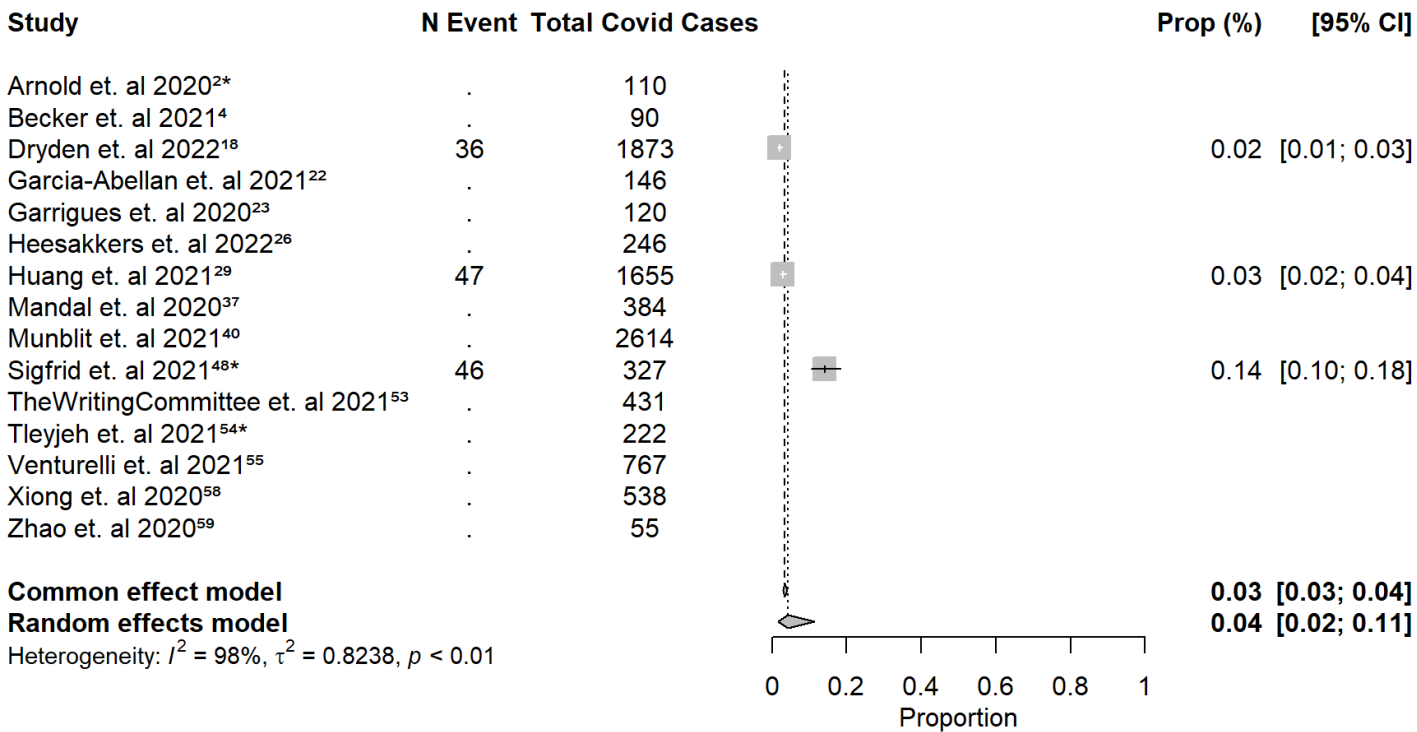


\* indicates value estimated from a figure



Skin Rash:

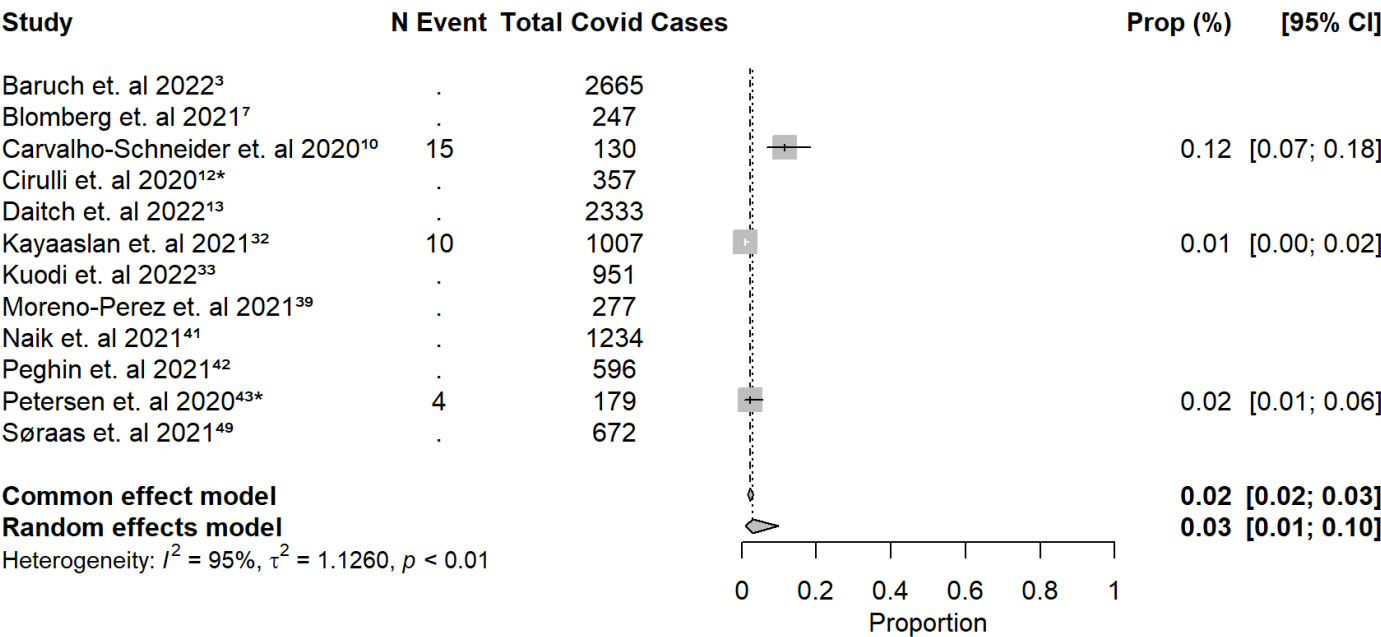
Analysis 4  
Skin Rash: hospitalized



\* indicates value estimated from a figure

Analysis 4

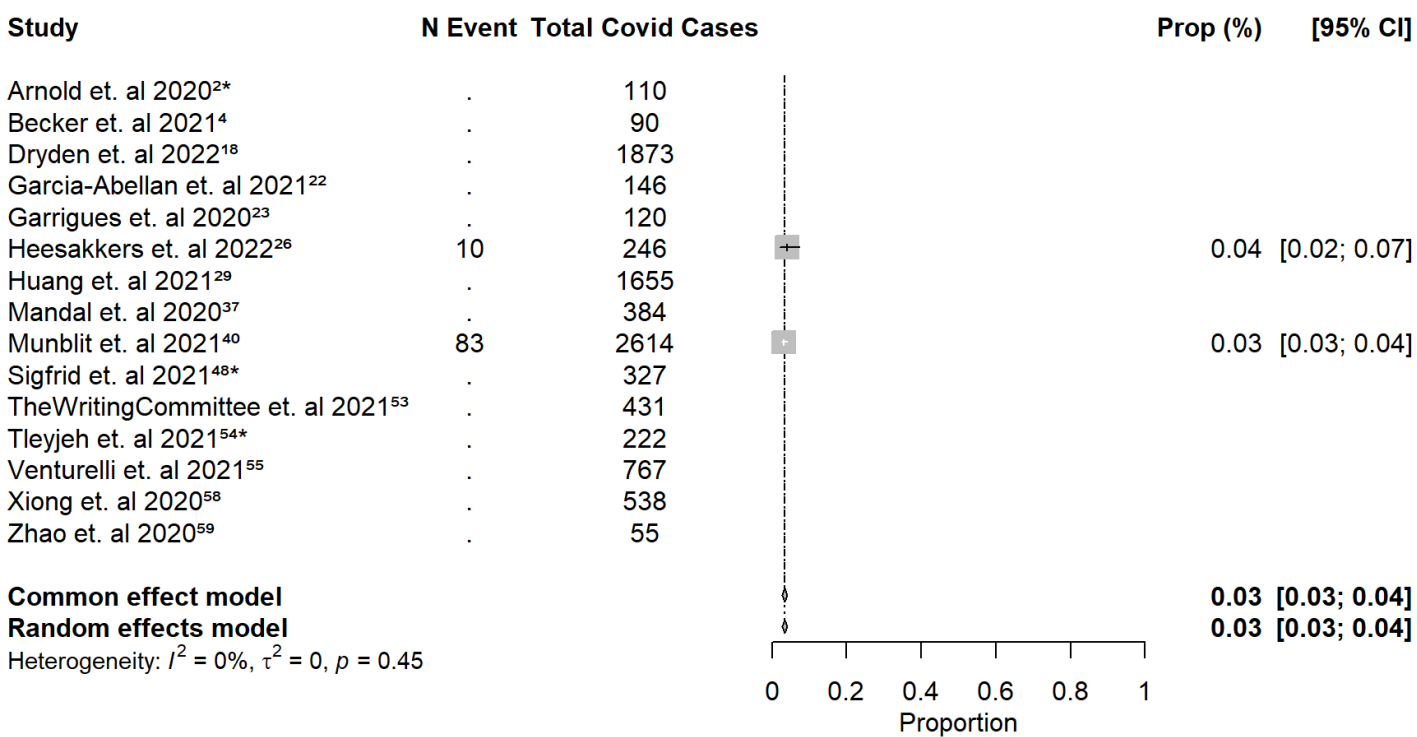
Skin Rash: non-hospitalized and mixed



\* indicates value estimated from a figure

# Hearing Problems:

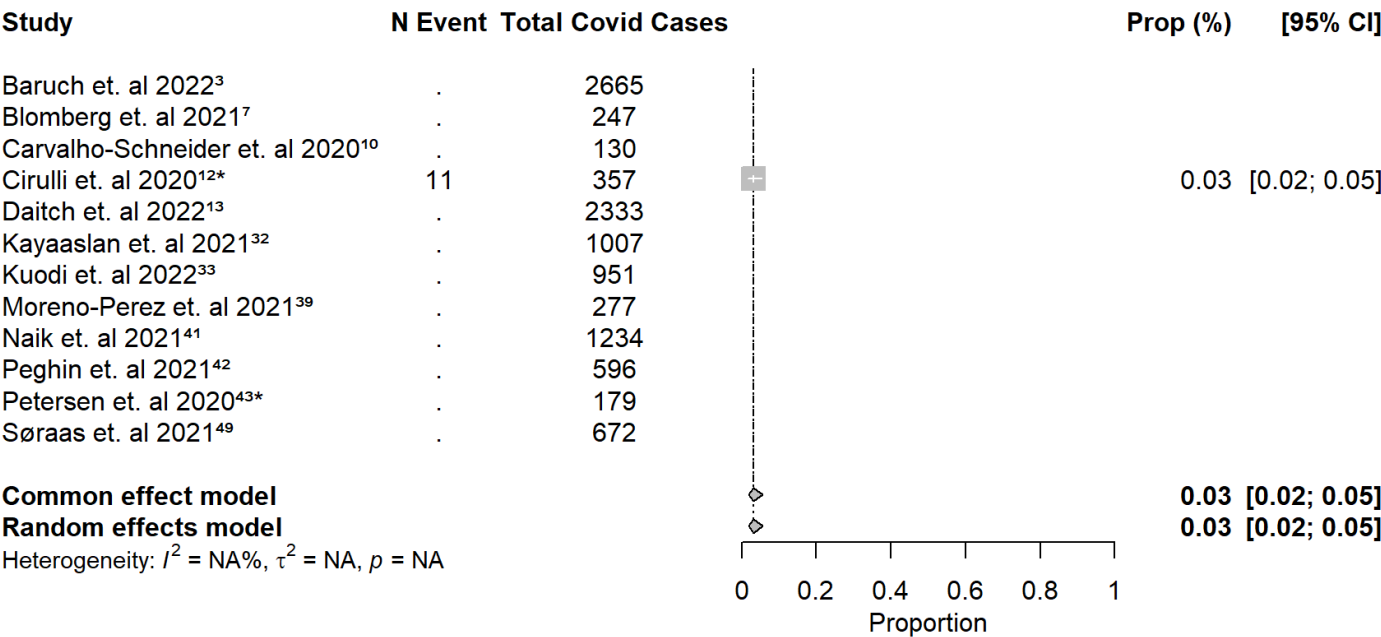
## Analysis 4 Hearing Problems: hospitalized



\* indicates value estimated from a figure

Analysis 4

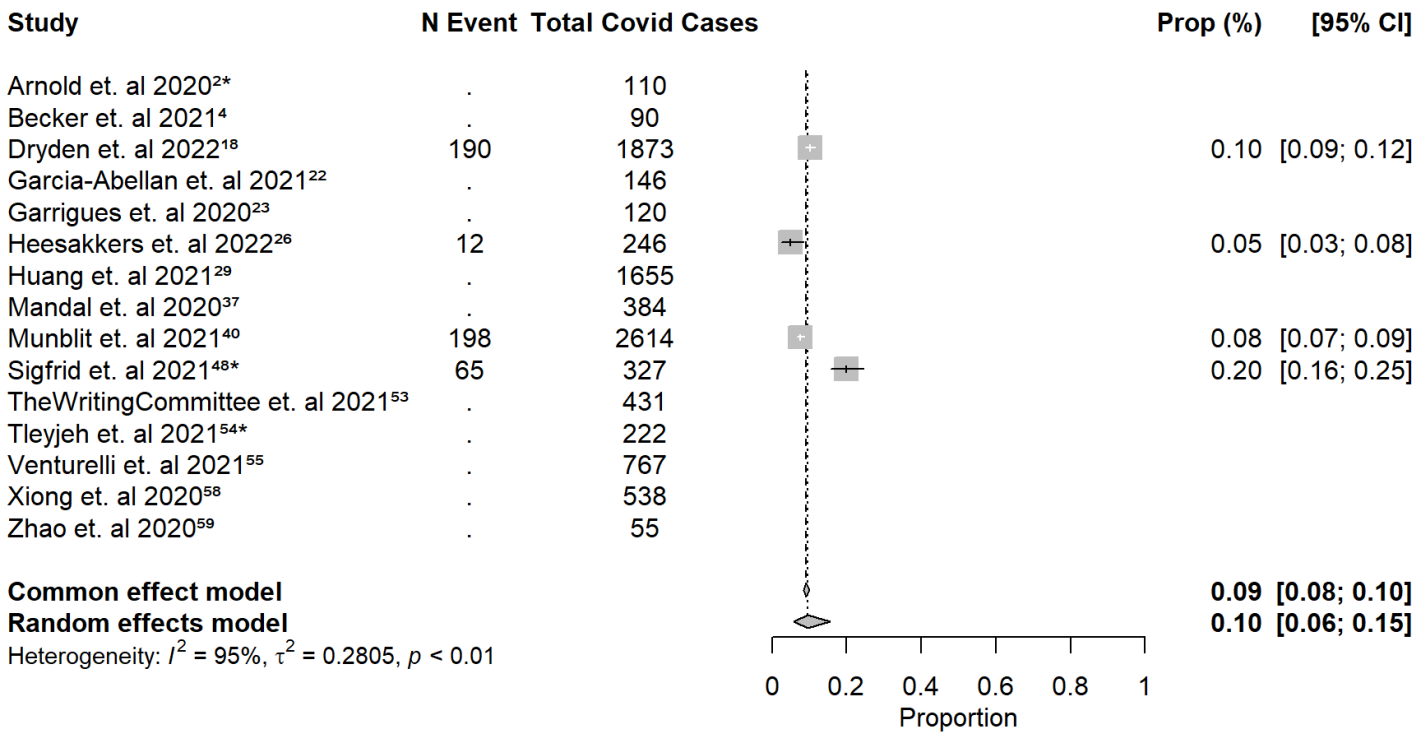
Hearing Problems: non-hospitalized and mixed



\* indicates value estimated from a figure

Vision Problems:

Analysis 4  
Vision Problems: hospitalized



\* indicates value estimated from a figure

