

# Replicate Ba et al. 2021 - Merge Uses of Force to Shift Assignments

## Merge uses of force - Ba et al. 2021

- Number of resulting rows: 2932837
- Number of uses of force which occurred during a shift: 7944
  - Percentage of uses of force (9293): 85.4836974%
- Number of shift assignments retained: 2932680
  - Percentage of shift assignments: 100%
- 132 shift assignments matched with at least one use of force **without having** a start time and an end time.
  - This represents 0.004501% of all shift assignments.
  - 134 uses of force are affected or 1.4419456% of all uses of force.
- There are 5 uses of force which match to more than one shift assignment.
  - These **duplicate** uses of force represent 0.0538039% of all uses of force (9293).
  - 10 shift assignments are affected or  $3.4098504 \times 10^{-4}$ % of all shift assignments.
  - In total, there are 10 **duplicate stop-shift observations** representing  $3.4096678 \times 10^{-4}$ % of all force-shift observations.

## Merge force - Risi

- Number of resulting rows: 2932834
- Number of uses of force which occurred during a shift: 7772
  - Percentage of uses of force (9293): 83.6328419%
  - Number of fewer uses of force matched than Ba et al. 2021: 172
  - Percent reduction from Ba et al. 2021: 2.1651561%
- Number of shift assignments retained: 2932680

- **Percentage of shift assignments:** 100% **NOTE** this should be 100%.
- 0 shift assignments matched with at least one use of force **without having** a start time and an end time. **NOTE** that this should be 0.
- There are 0 uses of force which match to more than one shift assignment.
  - These **duplicate** uses of force represent 0% of all uses of force (9293).
  - 0 shift assignments are affected or 0% of all shift assignments.
  - In total, there are 0 **duplicate force-shift observations** representing 0% of all force-shift observations.
  - As noted above, **all these entries are dropped**.