

COMP\_SCI 396, 496: Data Science Seminar (Fall 2019)

Students: JaCoya Thompson (ID 2992892), Lianke Qin (ID 3229035), Victor S. Bursztyn (ID 3046613).

Professor: Jennie Rogers.

### **Checkpoint #3 — Data Cleaning and Integration**

**Context for this checkpoint:** Our group attempts to investigate how socio-demographic features such as race and ethnicity could play a role in the outcomes of police misconduct investigations, rather than focusing on the occurrences of such misconducts. Our project investigates the question: “When a case of police misconduct victimizes groups that are historically marginalized, how unfavorable is its investigation?” We will look at different hypothetical effects such as: (1) "Is an allegation made by a victim of color less likely of being sustained?"; (2) "Do the durations of misconduct investigations vary across victim races?"; and (3) "Do the disciplinary actions differ?"; to test for the presence of significant racial disparities in the outcomes of investigations involving people of color. This checkpoint allows us to move beyond the baselines extracted in Checkpoint #1 and the visualizations in Checkpoint #2 to explore the distributions of those effects using victim race as a potentially discriminant variable. Here, we scan Settlements records and try to retrieve victim race from CPDB. The goal is to start assembling tables that can be used in predictive analysis, that is, with:

- (1) victim race — what we are testing as discriminant variable;
- (2) allegation type — our lurking variable;
- (3) case's judge — the decision-maker for settlements; and
- (4) settlement amount — a hypothetical effect, that is, one target variable to be predicted.

*For full context, please refer to file "full\_proposal.pdf."*

**Question #1:** What's the average compensation amount by victim race?

**Query:**

```
SELECT race, ROUND(AVG(payment),1) AS "Average" FROM victim_results GROUP BY race;
```

**Results:**

race	Average
Hispanic	213197.8
Asian/Pacific Islander	985874.8
White	105735.3
Not found	310544.9
Black	192927.5

(5 rows)

**Analysis of results:** We matched 1,202 settlement records with victim details from CPDB. Out of those, 82 (or 6.83%) were missing data about race. A histogram can be found below:

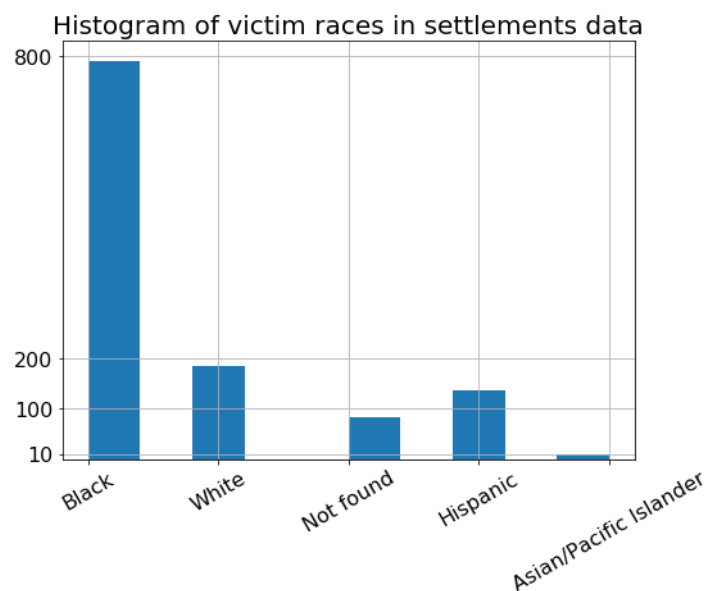


Fig. 1 - Histogram showing that black victims are the vast majority of victims.

Asian/Pacific Islander have the highest average of settlements with \$985,874.80, followed by Hispanic (\$213,197.00), Black (\$192,927.00), then White (\$105,735.00). As mentioned, victims races could not be identified in 6.83% of cases due to missing data in the CPDB database. Besides the average outcome from the settlements data for each race, we want to further analyze this distribution in light of other relevant details such as the allegation types (Q2 & Q3 below).

**Question #2:** What's the average compensation amount by allegation type?

**Query:** SELECT primary\_cause, ROUND(AVG(payment),1) AS "Average" FROM victim\_results GROUP BY primary\_cause;

**Results :**

primary_cause	Average
EXCESSIVE FORCE/TASER	30000.0
EXCESSIVE FORCE/FAILURE TO PROTECT	1000.0
EXCESSIVE FORCE/FALSE ARREST/EMOTIONAL	55000.0
48 HOUR RULE/CONDITIONS OF CONFINEMENT	12755000.0
EXCESSIVE FORCE/ILLEGAL SEARCH	70000.0
EXCESSIVE FORCE	40392.0
EXTENDED DETENTION	231263.9
DOMESTIC VIOLENCE	723500.0
EXCESSIVE FORCE/MINOR	26398.5
ALLEGED MONELL/CIVIL RIGHTS VIOLATIONS	30833.7
ILLEGAL SEIZURE	6250.5
POLICE MISCONDUCT	11500.0
UNREASONABLE SEIZURE & PROPERTY	0.0
UNREASONABLE SEARCH	18000.0
COSTS IN THE U.S. COURT OF APPEALS	0.0
MALICIOUS PROSECUTION	100000.0
CIVIL RIGHTS	166.7
ILLEGAL SEIZURE/EXCESSIVE FORCE CLAIMS	20500.0
OTHER POLICE MISCONDUCT	183448.4
POLICE PRACTICE	24000.0
REVERSE CONVICTION	5575000.0
WARRANT/KNOCK AND ANNOUNCE	1000.0
FALSE ARREST/EXCESSIVE FORCE	42554.4
MONELL	64166.7
REVERSED CONVICTION	1749891.5
FALSE ARREST	39641.7
EXCESSIVE FORCE/UNLAWFUL SEARCH	0.0
EXCESSIVE FORCE/FAILURE TO INTERVENE	76666.3
FEES AND COSTS	10000.0
BATTERY	500000.0
UNLAWFUL SEIZURE	2100.0
CIVIL RIGHTS - EXCESSIVE FORCE	99999.0
CIVIL RIGHTS COMPLAINT/FALSE ARREST	39875.0
FALSE ARREST/MALICIOUS PROSECUTION	14112.5
EXCESSIVE FORCE/MALICIOUS PROSECUTION	1800000.0
ILLEGAL STOP AND FALSE ARREST	5000.0
VIOLATIONS OF CONSTITUTIONAL RIGHTS	109004.0
FAILURE TO PROVIDE MEDICAL CARE	995806.3
ATTORNEY FEES	0.0
ILLEGAL STOP AND SEARCH	23000.0
DUI	325000.0
EXCESSIVE FORCE/SERIOUS	464187.3
DUI STOP	38304.1
ILLEGAL SEARCH/SEIZURE	25655.2
UNLAWFUL SEARCH AND SEIZURE	20000.0
FALSE ARREST/CONSPIRACY	9000.0
UNREASONABLE SEARCH & SEIZURE	38750.0
DENIAL OF MEDICAL CARE	650000.0
UNLAWFUL SEARCH	115000.0
EXCESSIVE FORCE SERIOUS	30000.0
EXCESSIVE FORCE/ILLEGAL SEIZURE	25000.0
48 HOUR VIOLATION	21000.0
CONDITIONS OF CONFINEMENT	2165.0
EXCESSIVE FORCE/WRONGFUL DEATH	99000.0
CIVIL RIGHTS - POLICE	7500.0
EXTENDED DETENTION/MALICIOUS PROSEC.	50250.0
UNLAWFUL SEARCH/FALSE ARREST	89642.9
VIOLATION OF CIVIL RIGHTS ACT	2500.0
ALLEGED SEIZURE & DESTRUCTION PROPERTY	0.0
VIOLATED FIRST AMENDMENT RIGHTS	47100.0
ILLEGAL SEIZURE OF PROPERTY	8001.0
MALICIOUS PROSECUTION	54229.2
EXTENDED DETENTION/MALICIOUS PROSECUTION	134626.9
OTHER POLICE MISCONDUCT: NON-INTENT.	250.0
EXCESSIVE FORCE/ELBOW STRIKE	100000.0
EXCESSIVE FORCE/DENIAL OF MEDICAL CARE	950.0
WRONGFUL DEATH	3250000.0
SEARCH, WARRANT, WRONG ADDRESS	15000.0
4TH AMENDMENT	400000.0
FALSE ARREST/UNLAWFUL SEARCH	30000.5

(70 rows)

**Analysis of results:** The highest sustained allegation payment was \$12,755,000.00, which comes from the misuse of the 48 hour rule or conditions of confinement. The 48-Hour Rule provides that when a person, whether adult or juvenile, is arrested without a warrant, a probable

cause determination must be made without unreasonable delay and cannot occur more than 48 hours after arrest. The time period for the 48 hours starts immediately at the time of the arrest.

To complement this analysis, a histogram can be found below. In it, one can see that frequency-wise there are four large categories of allegation types, with the most frequent ones being relatively generic or comprehensive. On the positive side, we can see some more specific types such as "failure to provide medical care", "search, warrant, wrong address", "illegal search/seizure", and "extended detention" having enough data points for establishing more advanced comparisons — namely, across races and ethnicities.

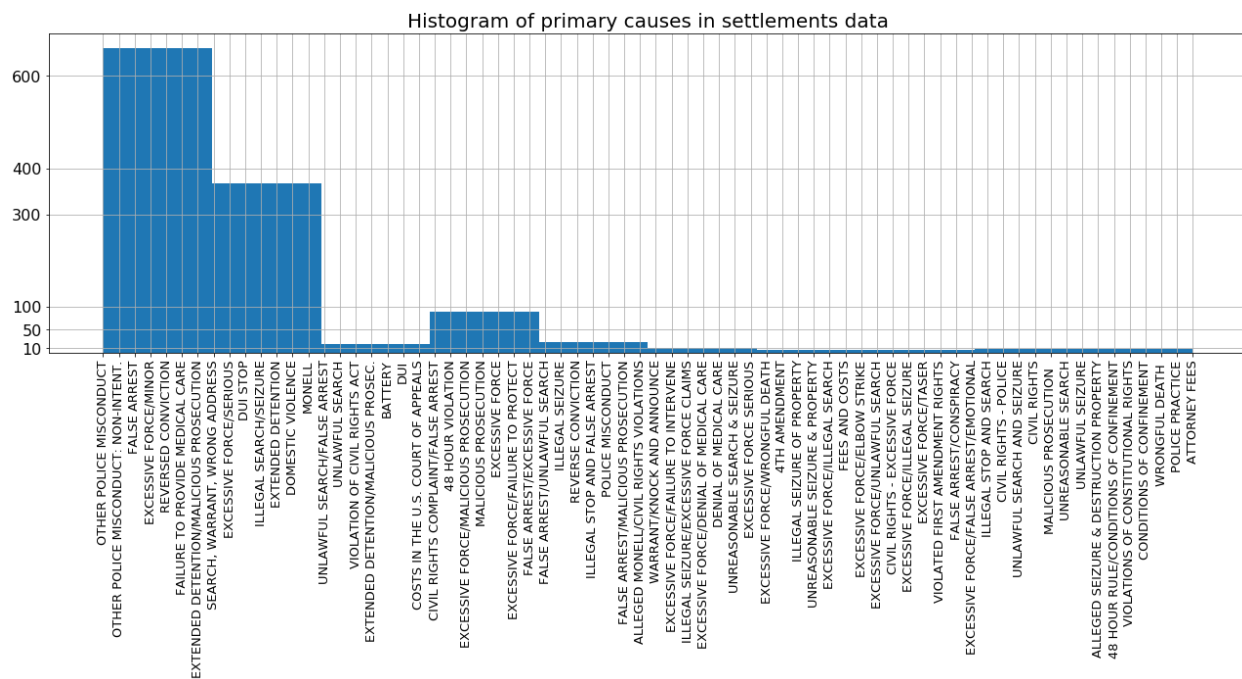


Fig. 2 - Histogram showing all the different allegation types (i.e., primary causes).

After extending our questions with histograms, we started incorporating these counts into the actual queries originally posed.

### Question #3:

What's the average compensation amount by victim race and allegation type combined?

### Query:

```
SELECT race, primary_cause, avg(payment), COUNT(*) FROM victim_results GROUP BY race, primary_cause ORDER BY race ASC;
```



## Results:

race	primary_cause	avg	count
Asian/Pacific Islander	EXCESSIVE FORCE/MINOR	3425.0000000000000000	2
Asian/Pacific Islander	ILLEGAL SEIZURE OF PROPERTY	8001.0000000000000000	1
Asian/Pacific Islander	REVERSED CONVICTION	3879823.500000000000	2
Asian/Pacific Islander	EXCESSIVE FORCE	62500.000000000000	1
Asian/Pacific Islander	MALICIOUS PROSECUTION	2500.00000000000000	1
Asian/Pacific Islander	DUI STOP	47500.000000000000	1
Black	CIVIL RIGHTS	125.0000000000000000	2
Black	SEARCH, WARRANT, WRONG ADDRESS	15000.00000000000000	1
Black	FAILURE TO PROVIDE MEDICAL CARE	1271908.333333333333	15
Black	DUI STOP	41527.666666666667	18
Black	EXCESSIVE FORCE	41666.333333333333	30
Black	DOMESTIC VIOLENCE	723500.000000000000	3
Black	ILLEGAL SEARCH/SEIZURE	24534.747747747748	111
Black	CONDITIONS OF CONFINEMENT	2165.00000000000000	1
Black	DUI	325000.000000000000	1
Black	FALSE ARREST	37454.294117647059	221
Black	POLICE MISCONDUCT	0.000000000000000000	1
Black	EXCESSIVE FORCE/ILLEGAL SEARCH	70000.000000000000	1
Black	EXTENDED DETENTION/MALICIOUS PROSEC.	75000.000000000000	1
Black	EXTENDED DETENTION/MALICIOUS PROSECUTION	87545.437500000000	16
Black	DENIAL OF MEDICAL CARE	650000.000000000000	1
Black	UNLAWFUL SEARCH/FALSE ARREST	33650.000000000000	5
Black	ILLEGAL SEIZURE/EXCESSIVE FORCE CLAIMS	20500.000000000000	1
Black	COSTS IN THE U.S. COURT OF APPEALS	0.000000000000000000	1
Black	EXCESSIVE FORCE/DENIAL OF MEDICAL CARE	950.0000000000000000	1
Black	REVERSE CONVICTION	6718750.000000000000	4
Black	CIVIL RIGHTS COMPLAINT/FALSE ARREST	44833.333333333333	3
Black	4TH AMENDMENT	400000.000000000000	1
Black	ALLEGED MONELL/CIVIL RIGHTS VIOLATIONS	46250.500000000000	2
Black	FALSE ARREST/UNLAWFUL SEARCH	0.000000000000000000	1
Black	MONELL	62500.000000000000	1
Black	ILLEGAL SEIZURE	5001.00000000000000	1
Black	VIOLATIONS OF CONSTITUTIONAL RIGHTS	109004.000000000000	1
Black	VIOLATION OF CIVIL RIGHTS ACT	2500.00000000000000	1
Black	EXCESSIVE FORCE/SERIOUS	499613.740384615385	104
Black	MALICIOUS PROSECUTION	100000.000000000000	1
Black	EXTENDED DETENTION	297431.818181818182	11
Black	MALICIOUS PROSECUTION	41457.666666666667	6
Black	EXCESSIVE FORCE/MALICIOUS PROSECUTION	180000.000000000000	1
Black	UNREASONABLE SEARCH & SEIZURE	38750.000000000000	2
Black	EXCESSIVE FORCE/WRONGFUL DEATH	99000.000000000000	1
Black	EXCESSIVE FORCE/FALSE ARREST/EMOTIONAL	55000.000000000000	1
Black	EXCESSIVE FORCE/FAILURE TO PROTECT	1000.00000000000000	1
Black	EXCESSIVE FORCE/MINOR	26837.772058823529	136
Black	EXCESSIVE FORCE/FAILURE TO INTERVENE	87499.500000000000	2
Black	48 HOUR VIOLATION	21000.000000000000	1
Black	EXCESSIVE FORCE/TASER	30000.000000000000	1
Black	ALLEGED SEIZURE & DESTRUCTION PROPERTY	0.000000000000000000	1
Black	ILLEGAL STOP AND SEARCH	23000.000000000000	1
Black	UNLAWFUL SEARCH	125000.000000000000	2
Black	UNLAWFUL SEARCH AND SEIZURE	20000.000000000000	1
Black	OTHER POLICE MISCONDUCT	268889.208333333333	24
Black	REVERSED CONVICTION	1623272.727272727273	11
Black	POLICE PRACTICE	24000.000000000000	1
Black	OTHER POLICE MISCONDUCT: NON-INTENT.	333.3333333333333333	3



Black	BATTERY	500000.000000000000	1
Black	FALSE ARREST/MALICIOUS PROSECUTION	17080.000000000000	5
Black	FALSE ARREST/EXCESSIVE FORCE	43608.695652173913	23
Black	UNREASONABLE SEARCH	18000.0000000000000000	1
Black	EXCESSIVE FORCE/ILLEGAL SEIZURE	25000.000000000000	1
Black	FALSE ARREST/CONSPIRACY	9000.0000000000000000	1
Hispanic	MALICIOUS PROSECUTION	13000.0000000000000000	1
Hispanic	EXTENDED DETENTION/MALICIOUS PROSEC.	58750.000000000000	3
Hispanic	EXTENDED DETENTION	214000.000000000000	4
Hispanic	FEES AND COSTS	10000.0000000000000000	1
Hispanic	FALSE ARREST/EXCESSIVE FORCE	60000.000000000000	1
Hispanic	EXCESSIVE FORCE/SERIOUS	402615.478260869565	23
Hispanic	WRONGFUL DEATH	325000.000000000000	2
Hispanic	EXCESSIVE FORCE/MINOR	23064.115384615385	26
Hispanic	CIVIL RIGHTS	250.0000000000000000	1
Hispanic	FALSE ARREST/UNLAWFUL SEARCH	60001.000000000000	1
Hispanic	WARRANT/KNOCK AND ANNOUNCE	1000.0000000000000000	1
Hispanic	EXTENDED DETENTION/MALICIOUS PROSECUTION	43375.000000000000	4
Hispanic	ILLEGAL SEARCH/SEIZURE	26875.000000000000	12
Hispanic	UNLAWFUL SEARCH/FALSE ARREST	430000.000000000000	1
Hispanic	EXCESSIVE FORCE	37218.000000000000	2
Hispanic	DUI STOP	22900.000000000000	2
Hispanic	FALSE ARREST	46646.000000000000	39
Hispanic	EXCESSIVE FORCE/ELBOW STRIKE	100000.000000000000	1
Hispanic	OTHER POLICE MISCONDUCT	59000.000000000000	5
Hispanic	REVERSED CONVICTION	1671350.000000000000	5
Hispanic	ILLEGAL SEIZURE	7500.0000000000000000	1
Hispanic	VIOLATED FIRST AMENDMENT RIGHTS	47100.000000000000	1
Not found	EXCESSIVE FORCE/MINOR	36213.307692307692	13
Not found	ILLEGAL SEARCH/SEIZURE	21772.727272727273	11
Not found	OTHER POLICE MISCONDUCT: NON-INTENT.	0.000000000000000000	1
Not found	FALSE ARREST	31825.000000000000	20
Not found	REVERSE CONVICTION	1000000.000000000000	1
Not found	ATTORNEY FEES	0.000000000000000000	1
Not found	UNLAWFUL SEARCH	95000.000000000000	1
Not found	UNLAWFUL SEIZURE	2100.0000000000000000	1
Not found	EXTENDED DETENTION/MALICIOUS PROSECUTION	12500.0000000000000000	2
Not found	EXCESSIVE FORCE	50000.000000000000	1
Not found	48 HOUR RULE/CONDITIONS OF CONFINEMENT	12755000.000000000000	1
Not found	POLICE MISCONDUCT	23000.000000000000	1
Not found	UNLAWFUL SEARCH/FALSE ARREST	29250.000000000000	1
Not found	FALSE ARREST/EXCESSIVE FORCE	0.000000000000000000	1
Not found	REVERSED CONVICTION	2525000.000000000000	2
Not found	EXTENDED DETENTION	22500.000000000000	1
Not found	OTHER POLICE MISCONDUCT	2500.0000000000000000	2
Not found	ALLEGED MONELL/CIVIL RIGHTS VIOLATIONS	0.000000000000000000	1
Not found	MALICIOUS PROSECUTION	44333.333333333333	3
Not found	FAILURE TO PROVIDE MEDICAL CARE	0.000000000000000000	1
Not found	DUI STOP	26166.666666666667	3
Not found	EXCESSIVE FORCE/SERIOUS	395796.833333333333	12
Not found	CIVIL RIGHTS - EXCESSIVE FORCE	99999.000000000000	1
White	CIVIL RIGHTS COMPLAINT/FALSE ARREST	25000.000000000000	1
White	FAILURE TO PROVIDE MEDICAL CARE	209375.000000000000	4
White	FALSE ARREST/MALICIOUS PROSECUTION	9166.666666666666667	3
White	ILLEGAL STOP AND FALSE ARREST	5000.0000000000000000	1
White	EXCESSIVE FORCE/UNLAWFUL SEARCH	0.000000000000000000	1
White	EXCESSIVE FORCE SERIOUS	30000.000000000000	1
White	EXCESSIVE FORCE/FAILURE TO INTERVENE	55000.000000000000	1
White	MONELL	65000.000000000000	2
White	ILLEGAL SEARCH/SEIZURE	31300.962962962963	27
White	FALSE ARREST	46072.719298245614	57
White	ATTORNEY FEES	0.000000000000000000	1
White	DENIAL OF MEDICAL CARE	650000.000000000000	1
White	CIVIL RIGHTS - POLICE	7500.0000000000000000	1
White	FALSE ARREST/EXCESSIVE FORCE	42726.600000000000	5
White	EXCESSIVE FORCE/SERIOUS	388002.789473684211	19
White	EXTENDED DETENTION/MALICIOUS PROSECUTION	304947.500000000000	8
White	UNREASONABLE SEIZURE & PROPERTY	0.000000000000000000	1
White	EXTENDED DETENTION/MALICIOUS PROSEC.	0.000000000000000000	1
White	EXTENDED DETENTION	6250.0000000000000000	2
White	EXCESSIVE FORCE	29792.333333333333	6
White	EXCESSIVE FORCE/MINOR	24575.200000000000	30
White	REVERSED CONVICTION	743750.000000000000	4
White	OTHER POLICE MISCONDUCT	5708.3333333333333333	6
White	MALICIOUS PROSECUTION	253504.000000000000	1

(130 rows)

### ***Analysis of results:***

These results allow us to explore our hypothesis more and provided much more context to potential relationships between settlement outcomes and race. We observed why the Asian/Pacific Islander had the highest average compensation in Q1 and how much each data point contributed to that average. Asian/Pacific Islander victims have the lowest allegations; in fact, the highest payout was due to a reverse conviction, but was still less compared to other races results. These results lead us to explore our data set some more and look at the sum of compensations based on race. The low averages in Q1 are due to the large variations of compensation amounts (see Fig. 3 below). Looking at the sum by race\* the table shows us a true depiction of race as it relates to compensation. We find that populations of color have the highest compensation and multiple types of allegation cases against police officers. The highest count of allegations were false arrest of Black people with an average payment of 37,454.

\*Bonus table

race	sum
Hispanic	29208104
Asian/Pacific Islander	7886998
White	19455301
Not found	25464684
Black	152412719
(5 rows)	

Furthermore, the bonus visualization below shows how compensations vary across allegation types (primary causes). First, we see that settlement outcomes vary a great extent in cases of more severe allegation types such as "reverse conviction" and "wrongful death." Second, we also see outcomes varying a significant extent for "domestic violence" and "failure to provide medical care." Looking back at the histogram in Fig. 2, these latter categories are among the most frequent ones. Therefore, we argue that they could be better explored in our predictive analysis in Checkpoint #5, since we are hypothesizing that racial biases could be one of the factors

behind these significant variations.

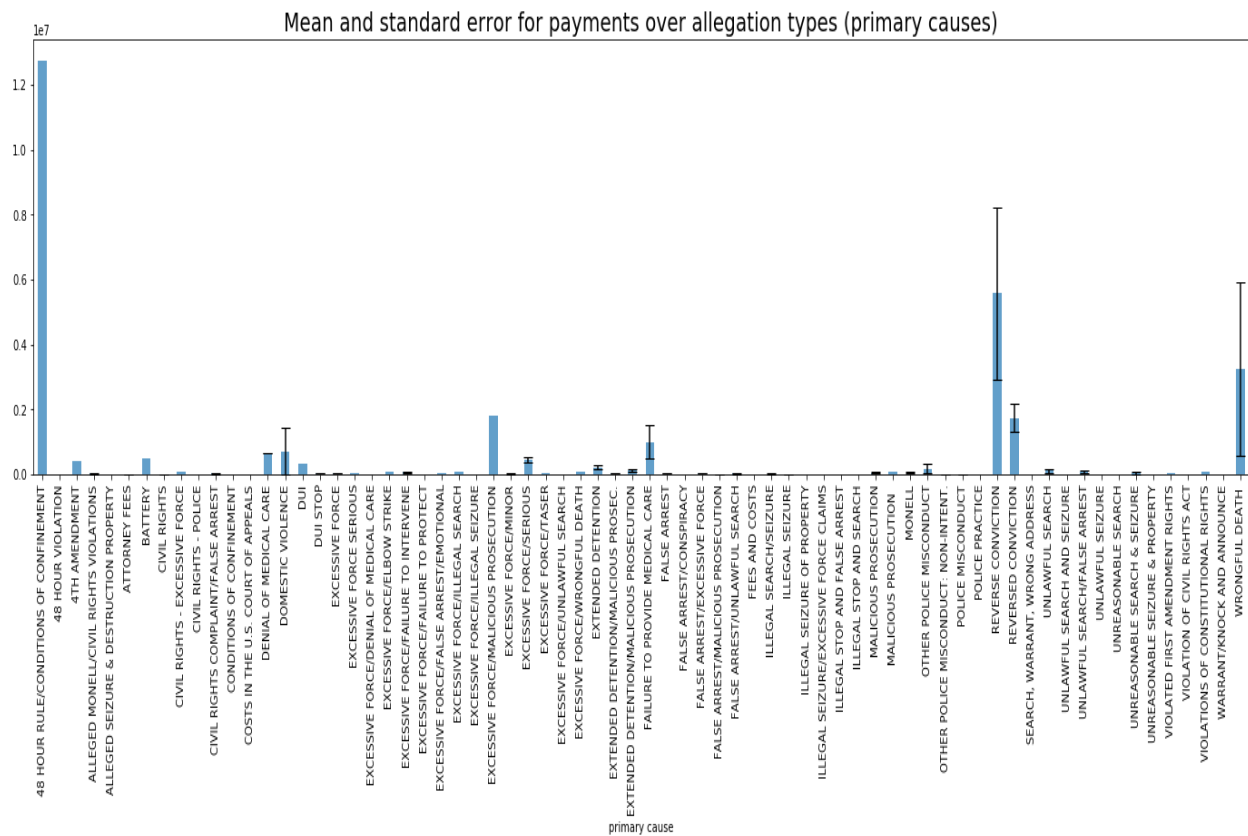


Fig. 3 - Mean and standard error for settlements grouped by allegation types (primary causes).

**Question #4:** What's the average compensation amount by victim race, allegation type and case's judge combined?

**Query:** SELECT race, primary\_cause, judge, COUNT(\*), avg(payment) FROM victim\_results GROUP BY race, primary\_cause, judge ORDER BY avg DESC;



## Results:

race	primary_cause	judge	count	avg
Black	REVERSE CONVICTION	Kennelly	1	1500000.0000000000
Not found	48 HOUR RULE/CONDITIONS OF CONFINEMENT	Gettleman	1	1275500.0000000000
Asian/Pacific Islander	REVERSED CONVICTION	Durkin	1	775000.0000000000
Black	FAILURE TO PROVIDE MEDICAL CARE	Kendall	2	750000.0000000000
Black	REVERSED CONVICTION	Tharp Jr.	1	615000.0000000000
Black	REVERSE CONVICTION	Lee	1	600000.0000000000
Black	REVERSED CONVICTION	Pallmeyer	1	537500.0000000000
Black	EXCESSIVE FORCE/SERIOUS	Ward John A	1	450000.0000000000
Black	EXCESSIVE FORCE/SERIOUS	Elizabeth M. Budzinski	2	425000.0000000000
Hispanic	REVERSED CONVICTION	Kocoras	1	360000.0000000000
White	EXCESSIVE FORCE/SERIOUS	Lorna E. Propes	1	330000.0000000000
Not found	REVERSED CONVICTION	Bucklo	1	325000.0000000000
Hispanic	WRONGFUL DEATH	Not found	2	325000.0000000000
Black	REVERSE CONVICTION	Kendall	2	293750.0000000000
Black	EXCESSIVE FORCE/SERIOUS	Budzinski	1	220000.0000000000
Black	DOMESTIC VIOLENCE	James D. Egan	1	213300.0000000000
White	REVERSED CONVICTION	Bucklo	1	200000.0000000000
Not found	REVERSED CONVICTION	St. Eve	1	180000.0000000000
Black	EXCESSIVE FORCE/MALICIOUS PROSECUTION	Zagel	1	180000.0000000000
Black	REVERSED CONVICTION	Kennelly	2	170050.0000000000
Hispanic	REVERSED CONVICTION	James N. O'hara	3	158500.0000000000
Black	EXCESSIVE FORCE/SERIOUS	Darrah	3	150166.66666666667
Black	EXCESSIVE FORCE/SERIOUS	Susan Ruscitti-Grussel	1	137500.0000000000
Hispanic	EXCESSIVE FORCE/SERIOUS	Kennelly	1	125000.0000000000
Hispanic	EXCESSIVE FORCE/SERIOUS	Norgle Sr.	2	123000.0000000000
Hispanic	EXCESSIVE FORCE/SERIOUS	Chang	2	112500.0000000000
Black	OTHER POLICE MISCONDUCT	Kendall	5	1099450.0000000000
Black	EXCESSIVE FORCE/SERIOUS	Gettleman	3	106666.66666666667
Black	EXCESSIVE FORCE/SERIOUS	Grady	1	100000.0000000000
Not found	EXCESSIVE FORCE/SERIOUS	Ellis	1	100000.0000000000
White	EXTENDED DETENTION/MALICIOUS PROSECUTION	Varga	1	100000.0000000000
Not found	REVERSE CONVICTION	Kendall	1	100000.0000000000
White	EXCESSIVE FORCE/SERIOUS	Kennelly	1	100000.0000000000
Black	FAILURE TO PROVIDE MEDICAL CARE	Grady	1	100000.0000000000
Black	REVERSED CONVICTION	Durkin	1	100000.0000000000
Black	REVERSED CONVICTION	Castillo	1	95000.0000000000
Black	FAILURE TO PROVIDE MEDICAL CARE	Tharp, Jr	1	93000.0000000000
White	EXCESSIVE FORCE/SERIOUS	Flannery	1	92500.0000000000
Black	EXCESSIVE FORCE/SERIOUS	Kennelly	6	885231.8333333333
Not found	EXCESSIVE FORCE/SERIOUS	Not found	1	80000.0000000000
Hispanic	EXCESSIVE FORCE/SERIOUS	Barbara M. McDonald	1	75000.0000000000
Black	EXCESSIVE FORCE/SERIOUS	James P. Flannery	1	75000.0000000000
Black	EXCESSIVE FORCE/SERIOUS	James M. Varga	2	75000.0000000000
Black	FAILURE TO PROVIDE MEDICAL CARE	St. Eve	3	68000.0000000000
Not found	EXCESSIVE FORCE/SERIOUS	Dow	2	667042.5000000000
Black	EXCESSIVE FORCE/SERIOUS	Not found	10	658491.0000000000
Not found	EXCESSIVE FORCE/SERIOUS	Darrah	1	652727.0000000000
Black	EXCESSIVE FORCE/SERIOUS	Holderman	2	652500.0000000000
Black	DENIAL OF MEDICAL CARE	Kennelly	1	650000.0000000000
White	DENIAL OF MEDICAL CARE	Kennelly	1	650000.0000000000
Black	EXCESSIVE FORCE/SERIOUS	St. Eve	8	633062.5000000000
White	REVERSED CONVICTION	Brosnahan	1	625000.0000000000
Black	EXTENDED DETENTION	Brewer Eileen	2	600000.0000000000
White	EXCESSIVE FORCE/SERIOUS	St. Eve	1	600000.0000000000
Black	EXCESSIVE FORCE/SERIOUS	Lorna E. Propes	2	600000.0000000000
White	EXTENDED DETENTION/MALICIOUS PROSECUTION	Thomas Lee Hogan	1	575000.0000000000
White	FAILURE TO PROVIDE MEDICAL CARE	Tharp, Jr	1	570000.0000000000
White	EXTENDED DETENTION/MALICIOUS PROSECUTION	Hibbler	1	560000.0000000000
Black	EXTENDED DETENTION	Donald J. Suriano	2	500000.0000000000
Black	BATTERY	Eileen M. Brewer	1	500000.0000000000

**Analysis of results:** This query returns a table with victim race, allegation type, the case's judge (the decision-maker for settlements), average settlement amount, and a count of the data points that contributed to the average number. The table returns 672 rows, which is a small set especially if we consider it getting smaller as our view gets more fine-grained.

For a more qualitative analysis, however, we can see that, for instance, Judge Kennelly has disbursed the highest average amount for a reverse conviction, followed by Judge Gettleman for the 48 hour rule, and Judge Durkin for a reverse conviction. If we had more data, we could quantitatively analyze the factors behind these variations in decision-making in light of Checkpoint #5.