| **Var #** | **Variable Name** | **Label** | **Type** | **Format** | **Format Values** | **Descriptive from Entire Baseline Sample** |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | subject\_id | Subject ID | Char | $5. |  | N: 240 (100%) Levels: 240 |
| 2 | visit |  | Num | FMT0307F. | 1=Baseline 2=Remote Follow-up 1.5=In Person Follow-up | Baseline: 240 (100%) |
| 3 | checkin\_bin | Football exposure group | Num | FMT0149F. | 1=High Exposure (HE): Former NFL 2=Medium Exposure (ME): Former College 3=Control (CTL) | High Exposure (HE): Former NFL: 120 (50%) Medium Exposure (ME): Former College: 60 (25%) Control (CTL): 60 (25%) |
| 4 | exposurebin | Exposure Bin | Num | FMT0264F. | 0=Unexposed 1=Exposed | Unexposed: 60 (25%) Exposed: 180 (75%) |
| 5 | age\_decade | Age group | Num | FMT0123F. | 1=45-54 2=55-64 3=65-74 | 45-54: 109 (45.4%) 55-64: 70 (29.2%) 65-74: 61 (25.4%) |
| 6 | racecat\_combined | Race Categories Combined | Num | FMT0101F. | 0=Not Reported 1=American Indian or Alaska Native 2=Asian 3=Black or African-American 4=Native Hawaiian or other Pacific Islander 5=White 6=Multiple races selected 777=Refused 999=Unknown | Black or African-American: 87 (36.3%) Native Hawaiian or other Pacific Islander: 1 (0.4%) White: 149 (62.1%) Multiple races selected: 3 (1.3%) |
| 7 | eduyears | How many years of school did you attend as a full-time student? Use the guidelines below to determine actual number to enter | Num | BEST12. |  | N: 240 NMiss: 0 Mean(SD): 16.9 (2.1) Median(IQR): 16.0 (16.0 - 18.0) Min - Max: 13.0 - 30.0 |
| 8 | totyr\_foot | Total years of football play | Num |  |  | N: 180 NMiss: 60 Mean(SD): 15.9 (4.4) Median(IQR): 16.0 (13.0 - 19.0) Min - Max: 6.0 - 25.0 |
| 9 | chiiseas\_pf | Lifetime Load (seasons)-Football Hits based on PEM frequency | Num |  |  | N: 180 NMiss: 60 Mean(SD): 10915 (4627.2) Median(IQR): 9832.3 (7679.6 - 13319) Min - Max: 3560.3 - 28020 |
| 10 | chiiyrs\_pf | Lifetime Load (years)-Football Hits based on PEM frequency | Num |  |  | N: 180 NMiss: 60 Mean(SD): 8229.1 (3741.4) Median(IQR): 7071.4 (5466.5 - 10090) Min - Max: 2167.7 - 20394 |
| 11 | chiiseas\_pl | Lifetime Load (seasons)-Football Hits based on PEM linear acceleration (g-force) | Num |  |  | N: 180 NMiss: 60 Mean(SD): 229271 (72383) Median(IQR): 220509 (176321 - 270987) Min - Max: 79213 - 446257 |
| 12 | chiiyrs\_pl | Lifetime Load (years)-Football Hits based on PEM linear acceleration (g-force) | Num |  |  | N: 180 NMiss: 60 Mean(SD): 171700 (52798) Median(IQR): 173952 (131075 - 204793) Min - Max: 47298 - 337689 |
| 13 | chiiseas\_pg | Lifetime Load (seasons)-Football Hits based on PEM rotational impacts (rad/sec2) | Num |  |  | N: 180 NMiss: 60 Mean(SD): 1.84E7 (6.42E6) Median(IQR): 1.78E7 (1.37E7 - 2.23E7) Min - Max: 6.05E6 - 4.41E7 |
| 14 | chiiyrs\_pg | Lifetime Load (years)-Football Hits based on PEM rotational impacts (rad/sec2) | Num |  |  | N: 180 NMiss: 60 Mean(SD): 1.37E7 (4.85E6) Median(IQR): 1.32E7 (1.01E7 - 1.72E7) Min - Max: 3.43E6 - 3.15E7 |
| 15 | timepoint\_aparc\_6 | Time point: 1 = baseline, 2 = follow up Version 6.0 | Num | FMT0237F. | 1=Baseline 2=Follow-up | Baseline: 230 (95.8%) Missing: 10 (4.2%) |
| 16 | lh\_volume\_freesurfer\_version\_6 | Volume in mm of the left hemisphere pial surface APARC bankssts parcel Version 6.0 | Char | $57. |  | N: 230 (95.8%) NMiss: 10 (4.2%) Levels: 1 |
| 17 | lh\_volume\_atlas\_6 | Freesurfer Atlas used for cortical parcellation Version 6.0 | Char | $33. |  | N: 230 (95.8%) NMiss: 10 (4.2%) Levels: 1 |
| 18 | lhbanksstsvolume\_6 | Volume in mm of the left hemisphere pial surface APARC caudalanteriorcingulate parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 2522.0 (465.0) Median(IQR): 2471.5 (2230.0 - 2786.0) Min - Max: 1024.0 - 3952.0 |
| 19 | lhcaudalanteriorcingulatevolum\_6 | Volume in mm of the left hemisphere pial surface APARC caudalmiddlefrontal parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 1723.6 (458.2) Median(IQR): 1663.0 (1390.0 - 1933.0) Min - Max: 695.0 - 3120.0 |
| 20 | lhcaudalmiddlefrontalvolume\_6 | Volume in mm of the left hemisphere pial surface APARC cuneus parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 6131.6 (1011.1) Median(IQR): 6092.5 (5420.0 - 6729.0) Min - Max: 2920.0 - 10046 |
| 21 | lhcuneusvolume\_6 | Volume in mm of the left hemisphere pial surface APARC entorhinal parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 3347.8 (601.4) Median(IQR): 3251.5 (2900.0 - 3683.0) Min - Max: 2124.0 - 5339.0 |
| 22 | lhentorhinalvolume\_6 | Volume in mm of the left hemisphere pial surface APARC fusiform parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 2051.1 (481.3) Median(IQR): 2012.5 (1743.0 - 2241.0) Min - Max: 918.0 - 4119.0 |
| 23 | lhfusiformvolume\_6 | Volume in mm of the left hemisphere pial surface APARC inferiorparietal parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 9802.1 (1432.0) Median(IQR): 9783.0 (8797.0 - 10834) Min - Max: 5277.0 - 14532 |
| 24 | lhinferiorparietalvolume\_6 | Volume in mm of the left hemisphere pial surface APARC inferiortemporal parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 12333 (2109.0) Median(IQR): 12200 (11020 - 13393) Min - Max: 7030.0 - 22567 |
| 25 | lhinferiortemporalvolume\_6 | Volume in mm of the left hemisphere pial surface APARC isthmuscingulate parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 10969 (1844.0) Median(IQR): 10776 (9785.0 - 12225) Min - Max: 3680.0 - 17056 |
| 26 | lhisthmuscingulatevolume\_6 | Volume in mm of the left hemisphere pial surface APARC lateraloccipital parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 2745.4 (404.7) Median(IQR): 2701.5 (2466.0 - 2986.0) Min - Max: 1677.0 - 4126.0 |
| 27 | lhlateraloccipitalvolume\_6 | Volume in mm of the left hemisphere pial surface APARC lateralorbitofrontal parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 12590 (1782.4) Median(IQR): 12475 (11401 - 13622) Min - Max: 7636.0 - 19521 |
| 28 | lhlateralorbitofrontalvolume\_6 | Volume in mm of the left hemisphere pial surface APARC lingual parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 7774.8 (858.9) Median(IQR): 7774.5 (7196.0 - 8218.0) Min - Max: 4758.0 - 11716 |
| 29 | lhlingualvolume\_6 | Volume in mm of the left hemisphere pial surface APARC medialorbitofrontal parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 7136.5 (1132.8) Median(IQR): 7027.5 (6351.0 - 7850.0) Min - Max: 3935.0 - 11293 |
| 30 | lhmedialorbitofrontalvolume\_6 | Volume in mm of the left hemisphere pial surface APARC middletemporal parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 5323.7 (706.2) Median(IQR): 5299.5 (4832.0 - 5810.0) Min - Max: 3233.0 - 7739.0 |
| 31 | lhmiddletemporalvolume\_6 | Volume in mm of the left hemisphere pial surface APARC parahippocampal parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 11370 (1744.4) Median(IQR): 11277 (10070 - 12485) Min - Max: 3742.0 - 16530 |
| 32 | lhparahippocampalvolume\_6 | Volume in mm of the left hemisphere pial surface APARC paracentral parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 1996.7 (316.7) Median(IQR): 1978.0 (1782.0 - 2168.0) Min - Max: 1247.0 - 3400.0 |
| 33 | lhparacentralvolume\_6 | Volume in mm of the left hemisphere pial surface APARC parsopercularis parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 3530.0 (486.4) Median(IQR): 3476.5 (3173.0 - 3828.0) Min - Max: 2467.0 - 5953.0 |
| 34 | lhparsopercularisvolume\_6 | Volume in mm of the left hemisphere pial surface APARC parsorbitalis parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 4592.0 (750.8) Median(IQR): 4624.5 (4110.0 - 4965.0) Min - Max: 2534.0 - 7546.0 |
| 35 | lhparsorbitalisvolume\_6 | Volume in mm of the left hemisphere pial surface APARC parstriangularis parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 2392.4 (328.2) Median(IQR): 2363.5 (2176.0 - 2613.0) Min - Max: 1496.0 - 4242.0 |
| 36 | lhparstriangularisvolume\_6 | Volume in mm of the left hemisphere pial surface APARC pericalcarine parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 3675.0 (557.2) Median(IQR): 3649.5 (3289.0 - 3988.0) Min - Max: 1740.0 - 5859.0 |
| 37 | lhpericalcarinevolume\_6 | Volume in mm of the left hemisphere pial surface APARC postcentral parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 2581.9 (521.1) Median(IQR): 2487.5 (2234.0 - 2867.0) Min - Max: 1401.0 - 4520.0 |
| 38 | lhpostcentralvolume\_6 | Volume in mm of the left hemisphere pial surface APARC posteriorcingulate parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 9819.7 (1550.3) Median(IQR): 9623.0 (8829.0 - 10555) Min - Max: 6632.0 - 18353 |
| 39 | lhposteriorcingulatevolume\_6 | Volume in mm of the left hemisphere pial surface APARC precentral parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 3193.6 (486.3) Median(IQR): 3162.5 (2856.0 - 3458.0) Min - Max: 1744.0 - 4782.0 |
| 40 | lhprecentralvolume\_6 | Volume in mm of the left hemisphere pial surface APARC precuneus parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 13487 (1602.1) Median(IQR): 13451 (12328 - 14429) Min - Max: 10025 - 19414 |
| 41 | lhprecuneusvolume\_6 | Volume in mm of the left hemisphere pial surface APARC rostralanteriorcingulate parce Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 9865.4 (1368.0) Median(IQR): 9829.0 (8978.0 - 10587) Min - Max: 5960.0 - 14760 |
| 42 | lhrostralanteriorcingulatevolu\_6 | Volume in mm of the left hemisphere pial surface APARC rostralmiddlefrontal parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 2728.8 (530.8) Median(IQR): 2699.5 (2338.0 - 3047.0) Min - Max: 1455.0 - 4271.0 |
| 43 | lhrostralmiddlefrontalvolume\_6 | Volume in mm of the left hemisphere pial surface APARC superiorfrontal parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 15428 (2033.7) Median(IQR): 15179 (14061 - 16713) Min - Max: 9279.0 - 24495 |
| 44 | lhsuperiorfrontalvolume\_6 | Volume in mm of the left hemisphere pial surface APARC superiorparietal parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 21424 (2743.0) Median(IQR): 21494 (19756 - 22888) Min - Max: 12012 - 33149 |
| 45 | lhsuperiorparietalvolume\_6 | Volume in mm of the left hemisphere pial surface APARC superiortemporal parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 13403 (2136.1) Median(IQR): 13109 (11769 - 14736) Min - Max: 9206.0 - 22379 |
| 46 | lhsuperiortemporalvolume\_6 | Volume in mm of the left hemisphere pial surface APARC supramarginal parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 12825 (1799.5) Median(IQR): 12625 (11592 - 13832) Min - Max: 7041.0 - 19428 |
| 47 | lhsupramarginalvolume\_6 | Volume in mm of the left hemisphere pial surface APARC frontalpole parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 11609 (1937.5) Median(IQR): 11278 (10377 - 12640) Min - Max: 7099.0 - 17626 |
| 48 | lhfrontalpolevolume\_6 | Volume in mm of the left hemisphere pial surface APARC temporalpole parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 872.5 (138.3) Median(IQR): 850.5 (780.0 - 954.0) Min - Max: 562.0 - 1460.0 |
| 49 | lhtemporalpolevolume\_6 | Volume in mm of the left hemisphere pial surface APARC transversetemporal parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 2271.6 (343.0) Median(IQR): 2244.0 (2065.0 - 2469.0) Min - Max: 1307.0 - 3816.0 |
| 50 | lhtransversetemporalvolume\_6 | Volume in mm of the left hemisphere pial surface APARC insula parcel Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 1210.1 (235.9) Median(IQR): 1174.0 (1038.0 - 1334.0) Min - Max: 754.0 - 2318.0 |
| 51 | lhinsulavolume\_6 |  | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 7480.2 (762.9) Median(IQR): 7374.0 (7000.0 - 7963.0) Min - Max: 4734.0 - 9703.0 |
| 52 | lh\_volume\_BrainSegVolNotVent\_6 | Brain Segmentation Volume Without Ventricles Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 1.16E6 (110226) Median(IQR): 1.16E6 (1.09E6 - 1.22E6) Min - Max: 821325 - 1.52E6 |
| 53 | lh\_volume\_eTIV\_6 | Estimated Total Intracranial Volume Version 6.0 | Num | BEST12. |  | N: 230 NMiss: 10 Mean(SD): 1.17E6 (131890) Median(IQR): 1.17E6 (1.09E6 - 1.25E6) Min - Max: 886005 - 1.91E6 |