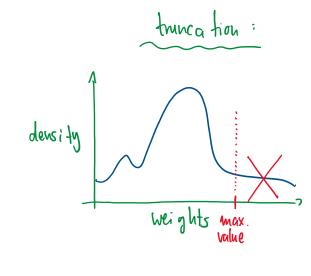
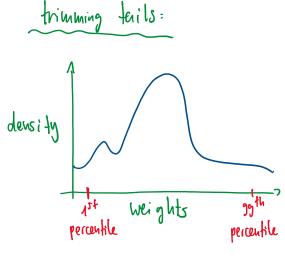
IPTW quiz

08.07.21

- and IPT Weighting involves weighting data by:
 - $\frac{1}{ps}$: for treated subjects $\frac{1}{1-ps}$: for control subjects $\frac{1}{1-ps}$: for control subjects
- Q2) Among control subjects (true treatment = 0), would someone with a high value of the ps get more or less weight than someone with a low ps? weight (whole subject w/ high ps) > weight (con tool subject w/ low ps)
 - Answer: more weight.
- Q3) Marginal structural models (msm) are used to model =
 - average causal effects (ACE)
- The pseudo-population refers to the population: Q41
 - after weighting
- (65) Compared to situations where weights are small, large weights lead to causal effect estimates that are:
 - more variable
- Q6) Near violation of the positivity assumption occurs when there are some weights that are very large:
 - True, blc weight = $\frac{1}{ps}$, so if weight large then ps very small = bow chance of receiving a heatment -> thus hear violation of positivity assumption.
- Q7) Weight truncation is the same as triuming the tails (of the weights distribution)?:
 - False: ble frumea tion only cuts weights danger than max. value le.g. 10 as in Interial R example). Whereas huncation cuts weights larger AND smaller than left and right-hand dist. threshold values





- Q8) Weight truncation, compared to meight truncation, will likely lead to causal effect estimates:
 - -> LESS VARIANCE MORE BIAS
- Doubly Robust Estimators require that: (g)
 - either the propersity score model or the ontome model are correctly specified
 - DR estimator a.k.a. augmented IPTW (AIPTW) estimator
 - to guaranteed unbiasedness of estimator
 - la more efficient (i.e. smaller variance associated w/ estimates).