1. Who responded to the **second line** study medications? Who did not? Can we identify characteristics that can help us identify who would succeed and who would fail?   
   - What’s the second line?

- Need to define what’s a success and fail  
- Possible solution: Logistic regression adjusted with some characteristics

1. Any difference in **age**, race (race / race 1), **gender**, **having underlying seizures**, **being on multiple anticonvulsants versus none or just one at home** (Home Med Variable Group), **having stroke (from imaging studies)**, **having metabolic anomalies (high BUN, creatinine)**, **having liver disease (high liver enzymes AST and/or ALT), having head injury, having brain tumor,** duration of seizures before study medications are given (SE\_Duration\_Before\_Study\_Drug), **number of first-line anticonvulsants given (the benzodiazepines e.g. versed, Ativan, diazepam**) (StudyDrug / StudyDrug1).  
   - Mixed Effect Model

Questions:

Meaning of MedFlat in the columns?

Meaning of those time related variables?

Meaning of DT\_TM variables?

[1] "zSubjectID" "zSiteID"

[3] "race" "race1"

[5] "Hispanic" "Children"

[7] "OUTCOME1ATreatmentSuccessadjudicated1Yes0No" "SE\_Duration\_Before\_Study\_Drug"

[9] "ICU" "Hosp\_LOS"

[11] "LOR\_Equiv\_LT\_32kg" "LOR\_Equic\_GT\_32kg"

[13] "Benzos\_PreED" "weightkg"

[15] "StudyDrug" "PMH\_epil"

[17] "PMH\_Epilepsy" "Precipitants"

[19] "SE\_Precipitnat" "SEorNot"

[21] "Final\_Dx" "ITT"

[23] "Per\_Protocol" "Home\_Med\_1"

[25] "StudyDrug1" "SameStudyHomeMed"

[27] "HomeMedsFlat\_Med\_Name\_1" "HomeMedsFlat\_dose\_mg\_1"

[29] "freq\_1" "indication\_1"

[31] "Home\_Med\_2" "HomeMedsFlat\_Med\_Name\_2"

[33] "HomeMedsFlat\_dose\_mg\_2" "freq\_2"

[35] "indication\_2" "Home\_Med\_3"

[37] "HomeMedsFlat\_Med\_Name\_3" "HomeMedsFlat\_dose\_mg\_3"

[39] "freq\_3" "indication\_3"

[41] "Home\_Med\_4" "HomeMedsFlat\_Med\_Name\_4"

[43] "HomeMedsFlat\_dose\_mg\_4" "freq\_4"

[45] "indication\_4" "Home\_Med\_5"

[47] "HomeMedsFlat\_Med\_Name\_5" "HomeMedsFlat\_dose\_mg\_5"

[49] "freq\_5" "indication\_5"

[51] "Home\_Med\_6" "HomeMedsFlat\_Med\_Name\_6"

[53] "HomeMedsFlat\_dose\_mg\_6" "freq\_6"

[55] "indication\_6" "DT\_TM\_1"

[57] "Other\_Med\_1" "OtherMedsFlat\_Med\_Name\_1"

[59] "OtherMedsFlat\_dose\_mg\_1" "mins\_post\_rand\_1"

[61] "DT\_TM\_2" "Other\_Med\_2"

[63] "OtherMedsFlat\_Med\_Name\_2" "OtherMedsFlat\_dose\_mg\_2"

[65] "mins\_post\_rand\_2" "DT\_TM\_3"

[67] "Other\_Med\_3" "OtherMedsFlat\_Med\_Name\_3"

[69] "OtherMedsFlat\_dose\_mg\_3" "mins\_post\_rand\_3"

[71] "DT\_TM\_4" "Other\_Med\_4"

[73] "OtherMedsFlat\_Med\_Name\_4" "OtherMedsFlat\_dose\_mg\_4"

[75] "mins\_post\_rand\_4" "DT\_TM\_5"

[77] "Other\_Med\_5" "OtherMedsFlat\_Med\_Name\_5"

[79] "OtherMedsFlat\_dose\_mg\_5" "mins\_post\_rand\_5"

[81] "DT\_TM\_6" "Other\_Med\_6"

[83] "OtherMedsFlat\_Med\_Name\_6" "OtherMedsFlat\_dose\_mg\_6"

[85] "mins\_post\_rand\_6" "SZ\_at\_20mins"

[87] "Responsive\_at\_20mins" "SZ\_at\_60mins"

[89] "Responsive\_at\_60mins" "RASS\_60mins"

[91] "Other\_Meds\_Within\_60mins" "Life\_Threat\_Hypotension"

[93] "Life\_Threat\_Arrythmia" "ET\_Intubation\_Attempted"

[95] "SZ\_Recurrence\_1\_to\_12Hours" "Anaphylaxis"