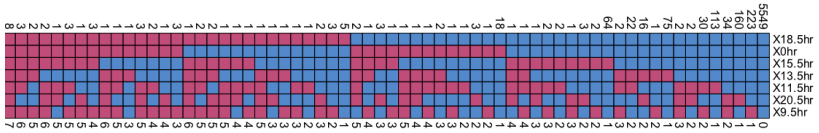
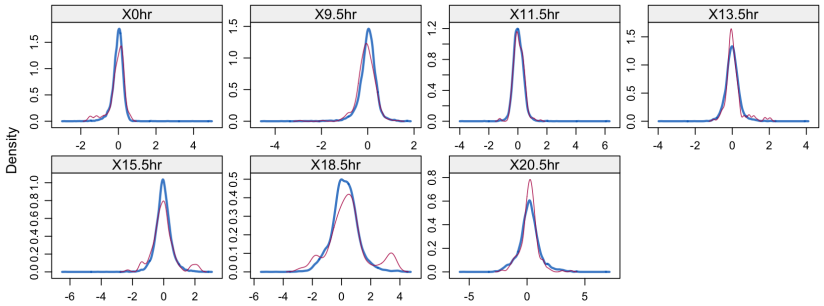
Appendix

1A) imputation patterns



1B) imputation density plot

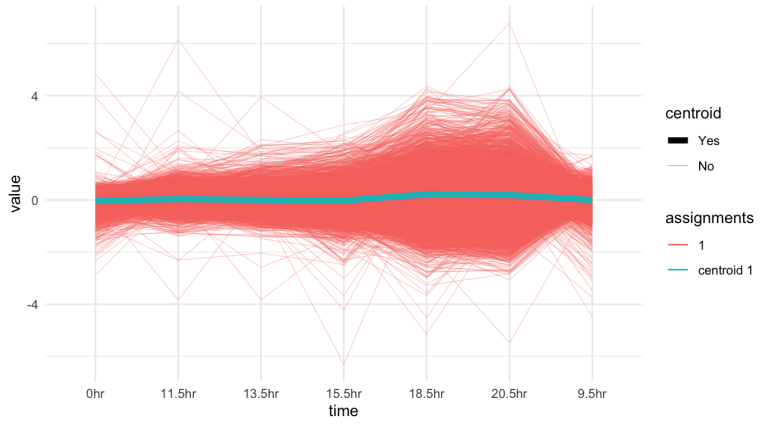


3) H-clustering assignments

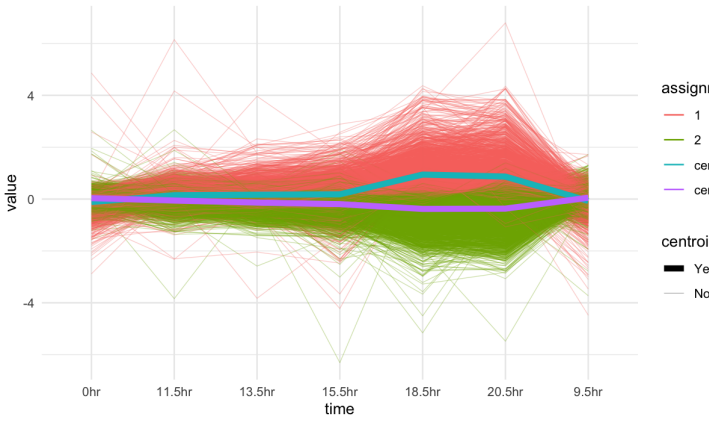
```
# A tibble: 1 × 2
  `cut_tree[[i]]` total
            <int> <int>
1               1  6400
# A tibble: 2 × 2
  `cut_tree[[i]]` total
            <int> <int>
1               1  4185
2               2  2215
# A tibble: 3 × 2
  `cut_tree[[i]]` total
            <int> <int>
1               1  4185
2               2   286
3               3  1929
# A tibble: 4 × 2
  `cut_tree[[i]]` total
            <int> <int>
1               1  4185
2               2   286
3               3  1928
4               4     1
# A tibble: 5 × 2
  `cut_tree[[i]]` total
            <int> <int>
1               1  4185
2               2   284
3               3  1928
4               4     2
5               5     1
# A tibble: 6 × 2
  `cut_tree[[i]]` total
            <int> <int>
1               1  3396
2               2   789
3               3   284
4               4  1928
5               5     2
6               6     1
# A tibble: 7 × 2
  `cut_tree[[i]]` total
            <int> <int>
1               1  3390
2               2   789
3               3   284
4               4  1928
5               5     6
6               6     2
7               7     1
```

2) K-means plots for different values of k

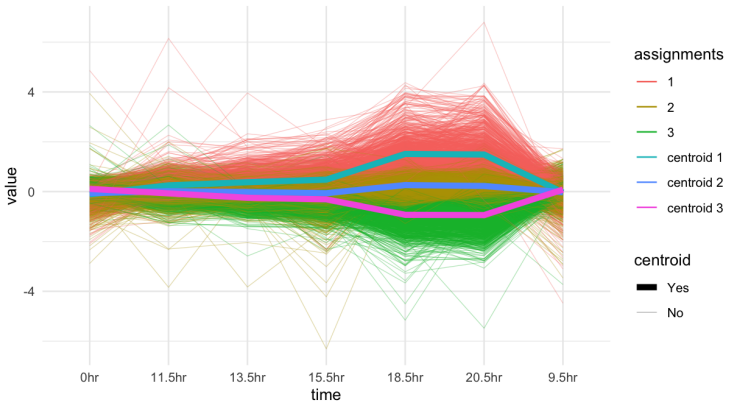
k = 1



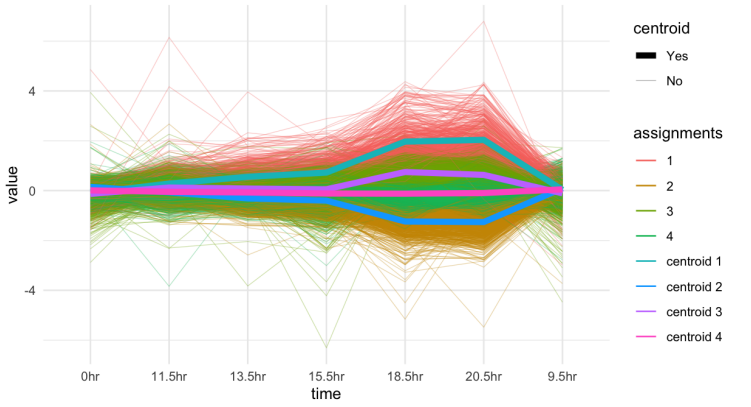
k = 2



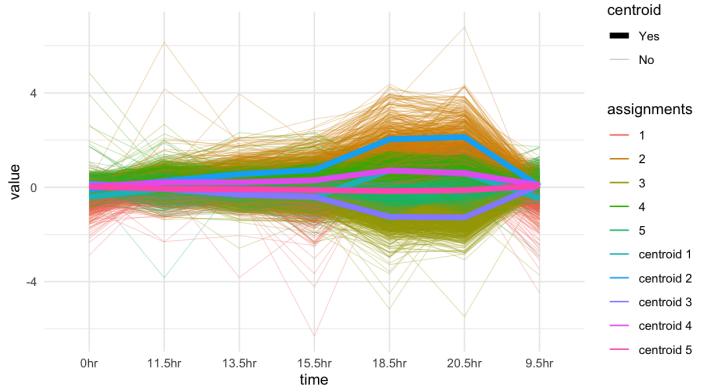
k=3



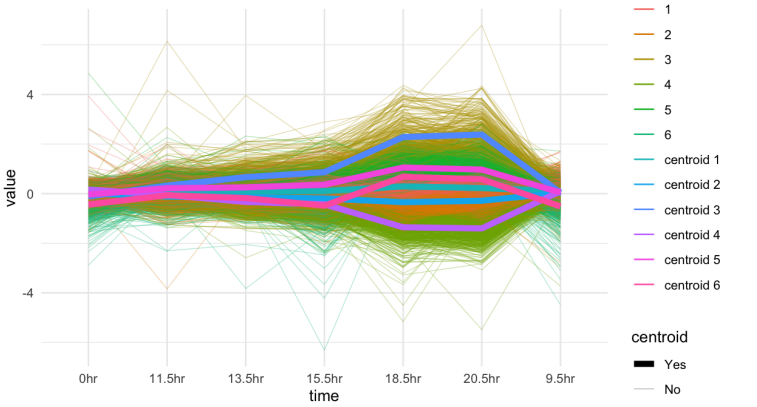
k = 4



k=5



k=6



k=7