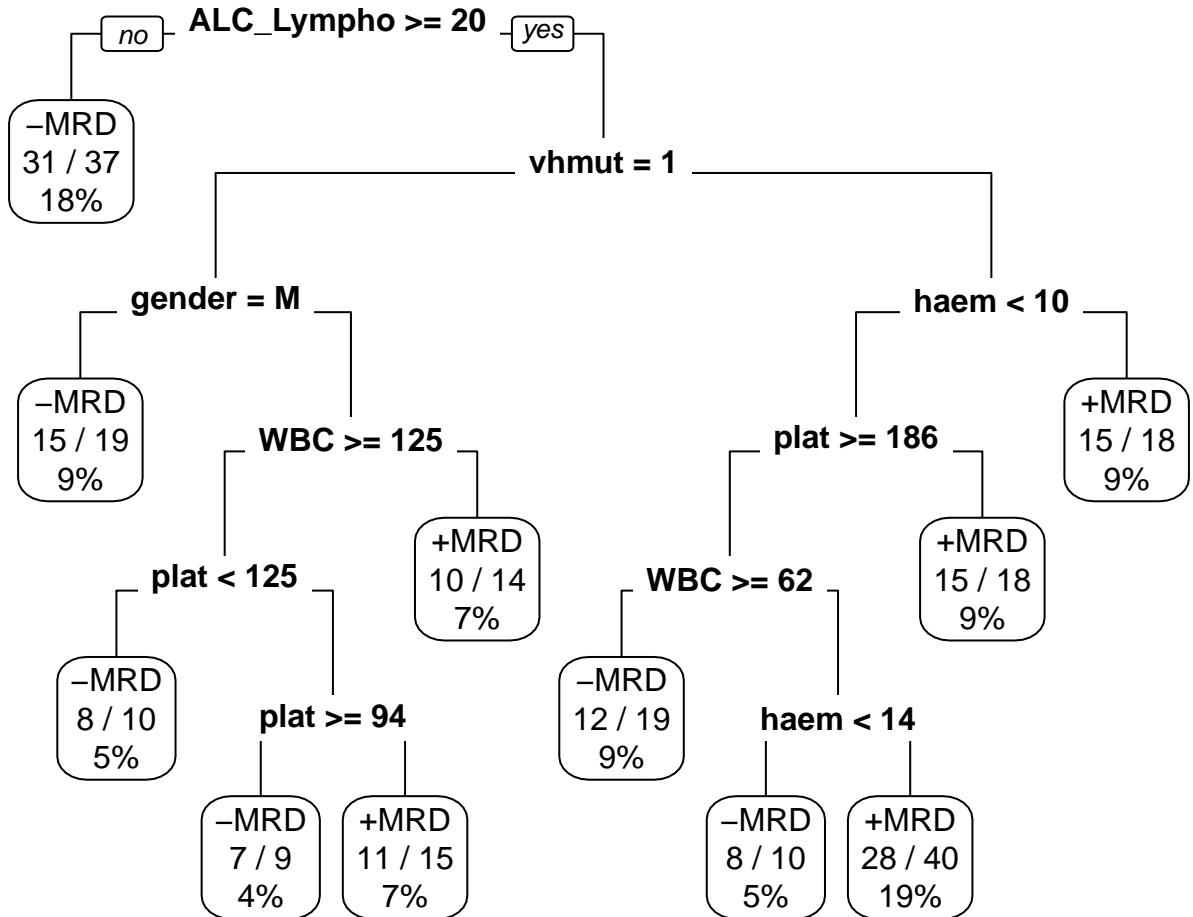
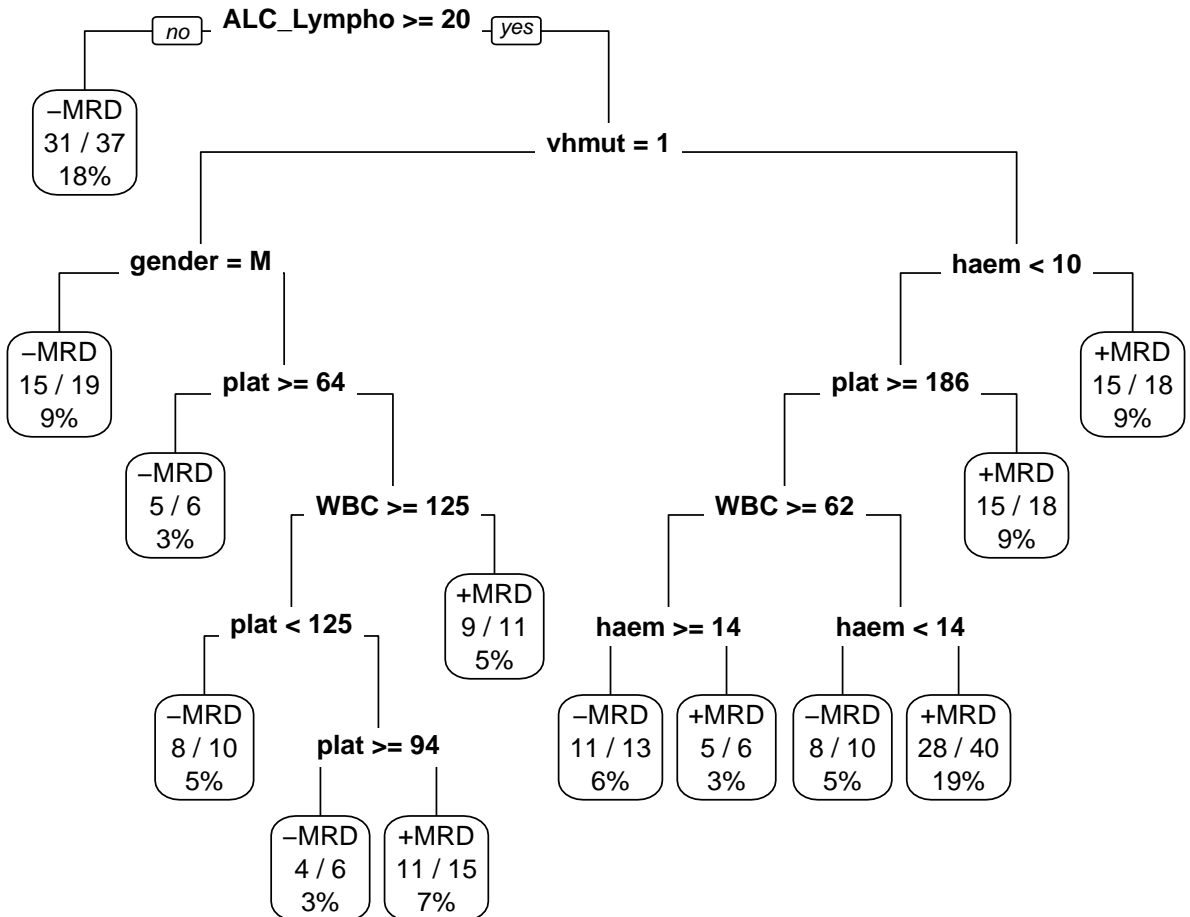


**3c) tree20: All clinical data**  
**cp=0.01, endgroup=8, MissClassErr=23.4%**



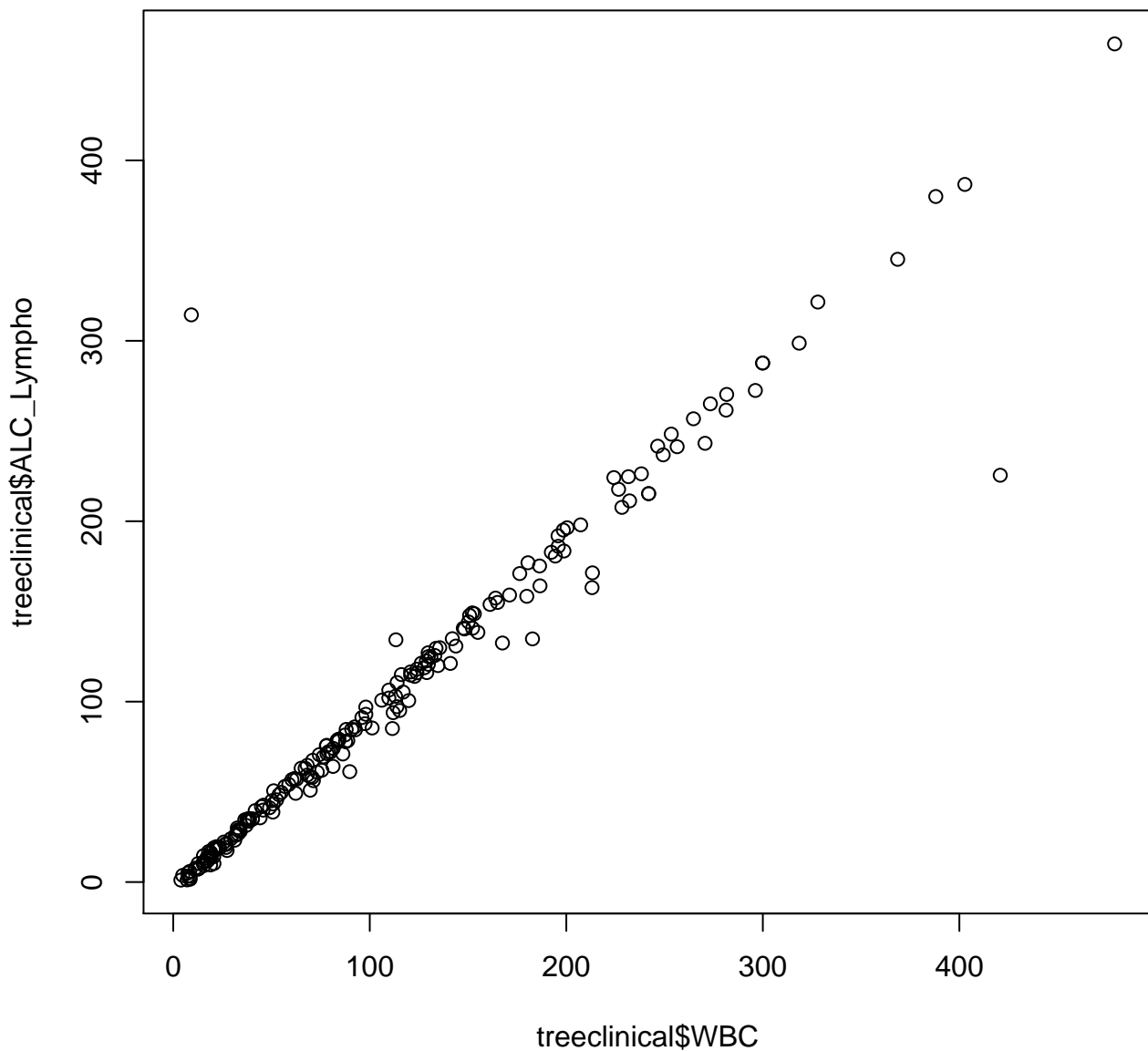
tree has quite a good Missclassification error, but does not make much sense clinically  
Note:vhmut=1 -> 98-100% mutated (which is good?)

**3c) tree21:All clinical data**  
**cp=0.01, endgroup=6, MissClassErr=21%**

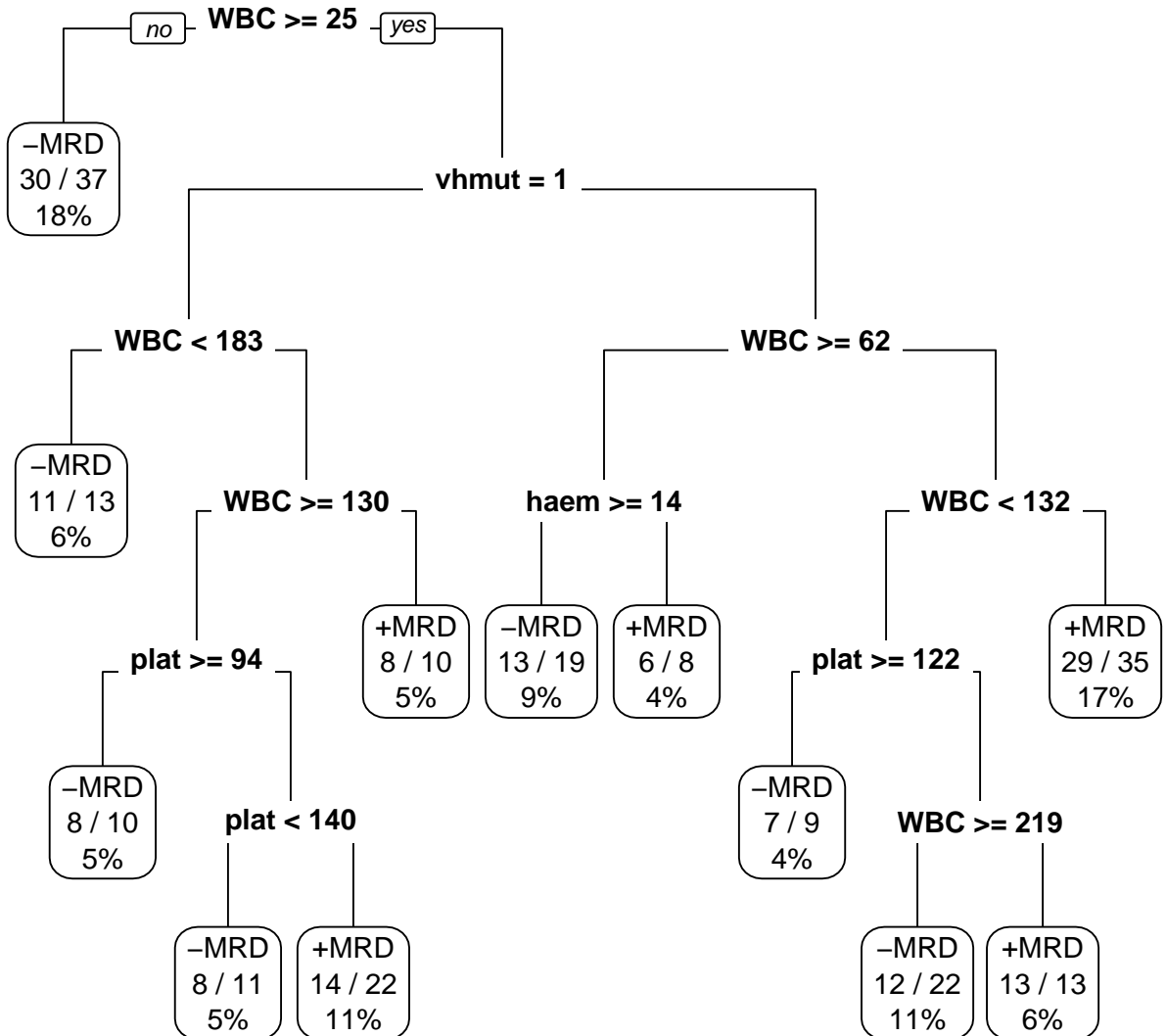


This tree has quite a good Missclassification error, but is quite complicated.  
One idea would be to use either Lymphos OR WBC and platelets OR haem  
(See next trees)

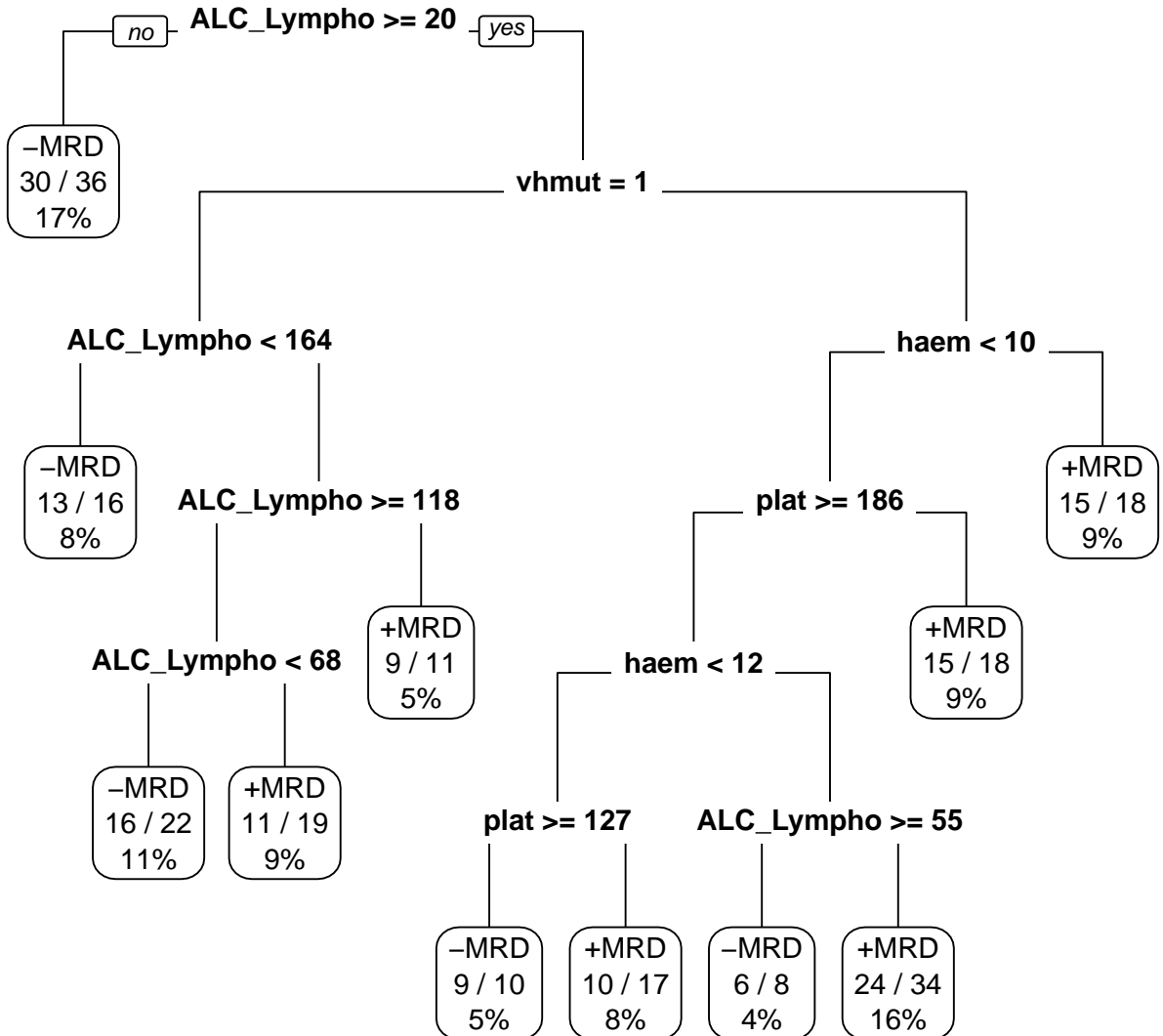
## WBC and Lymphos are highly correlated



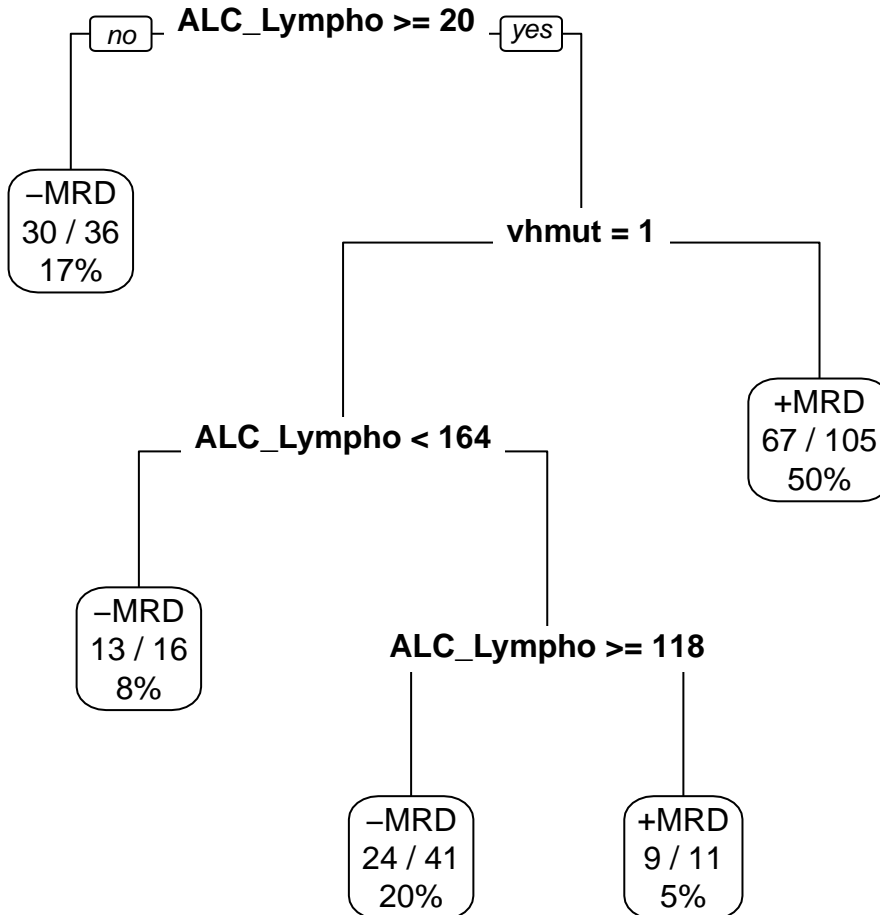
**3c) tree22:All clinical data, using only WBC**  
**cp=0.01, endgroup=8, MissClassErr=23.9%**



**3c) tree23: All clinical data, using only Lymphos**  
**cp=0.01, endgroup=8, MissClassErr=24.4%**

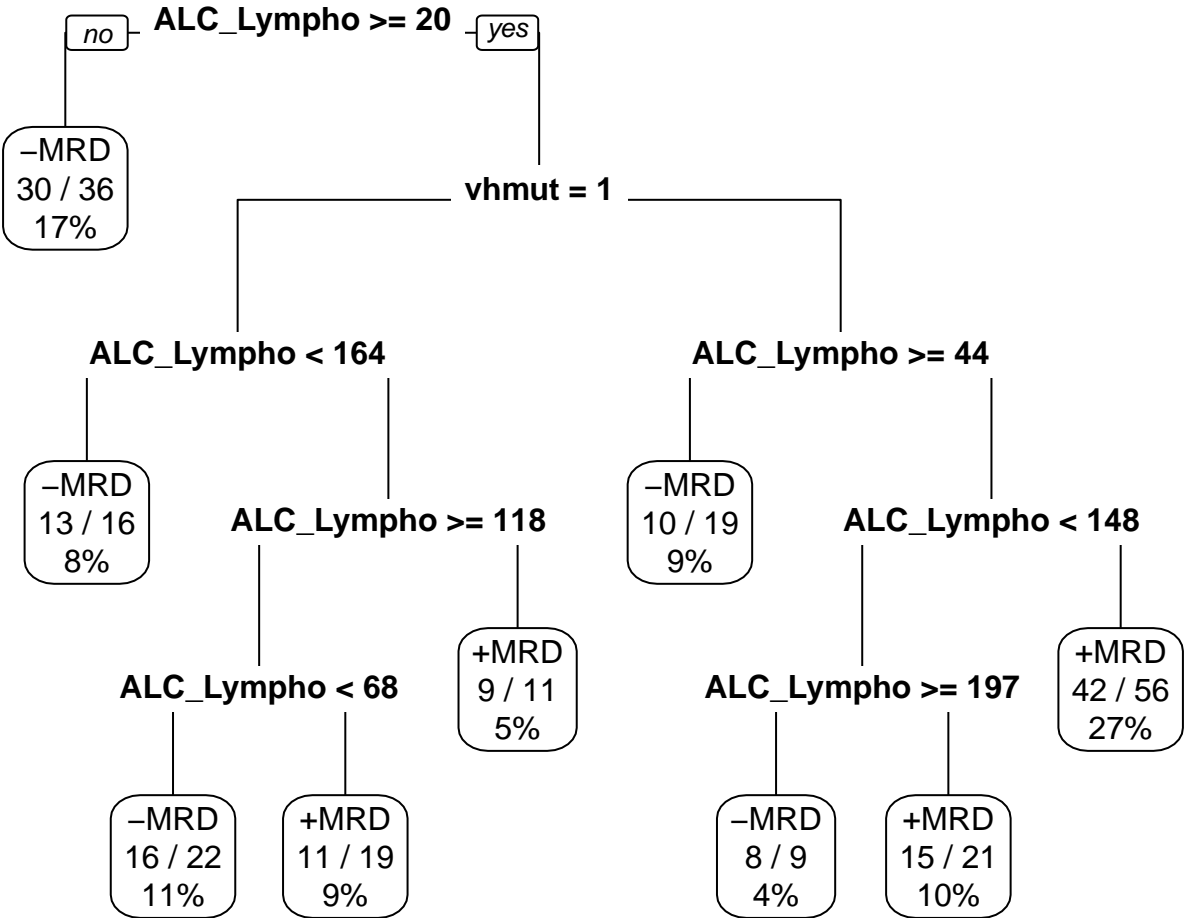


**3c) tree24: All clinical data, using only Lymphos  
cp=0.03, endgroup=8, MissClassErr=32%**



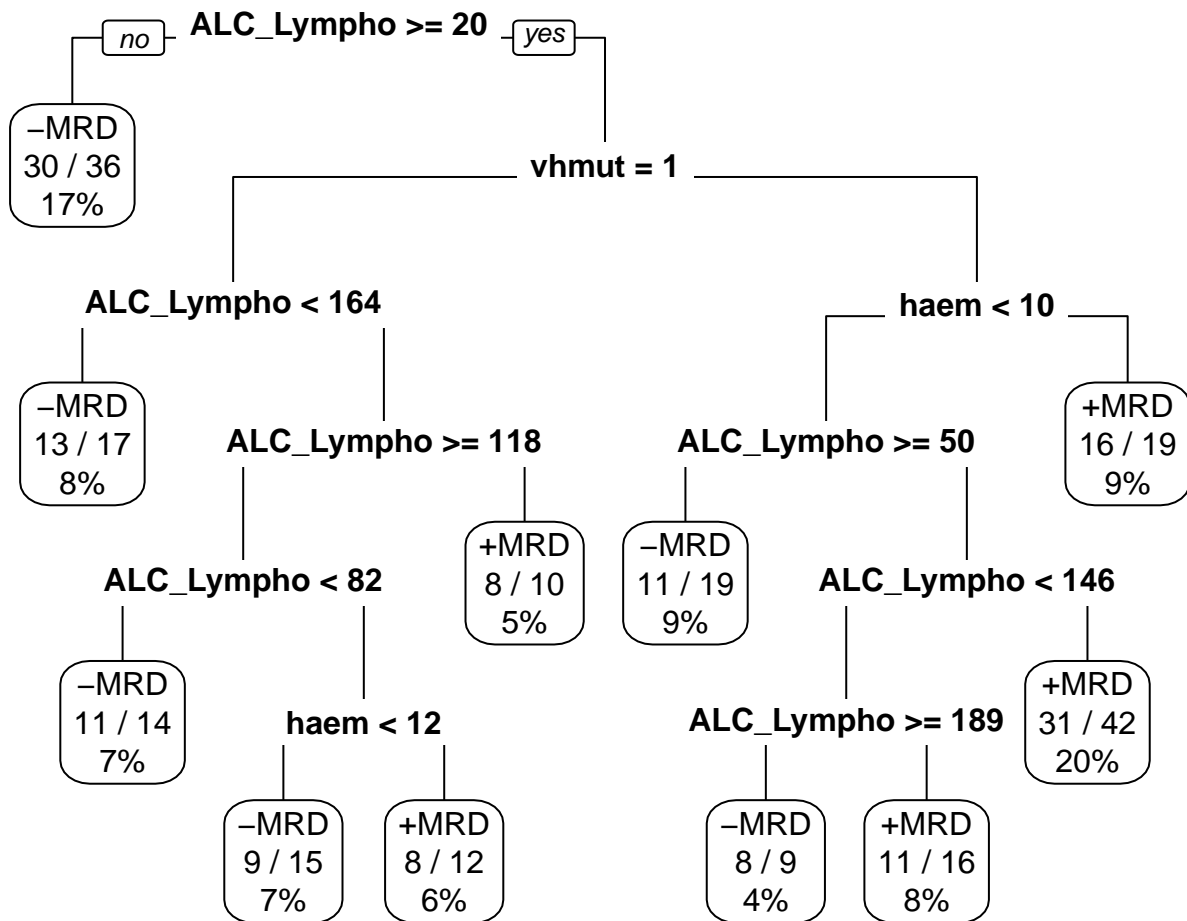
Trying to make the tree less complex results in increase in missclassification.  
Note that platelets and haem are not important anymore.

**3c) tree25:All clinical data, using only Lymphos and only plat  
cp=0.01, endgroup=8, MissClassErr=26.3%**



Note that platelets don't seem to be important anymore once you take out haem.

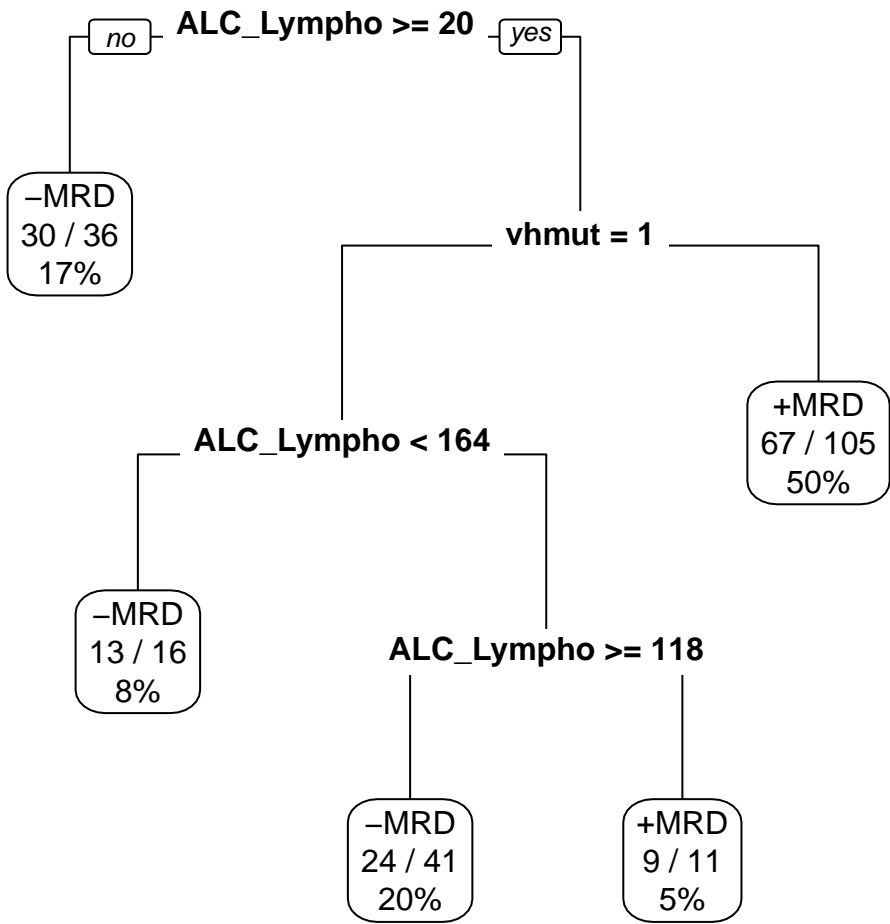
**3c) tree26:All clinical data, using only Lymphos and only haem  
cp=0.01, endgroup=8, MissClassErr=25.4%**



Note that haem doesn't seem to be important anymore once you take out platelets.



3c) tree27: All clinical data, using only Lymphos and only plat  
cp=0.03, endgroup=8, MissClassErr=32%



Trying to make the tree less complex results in increase in missclassification.  
Note that platelets don't seem to be important anymore once you take out haem.

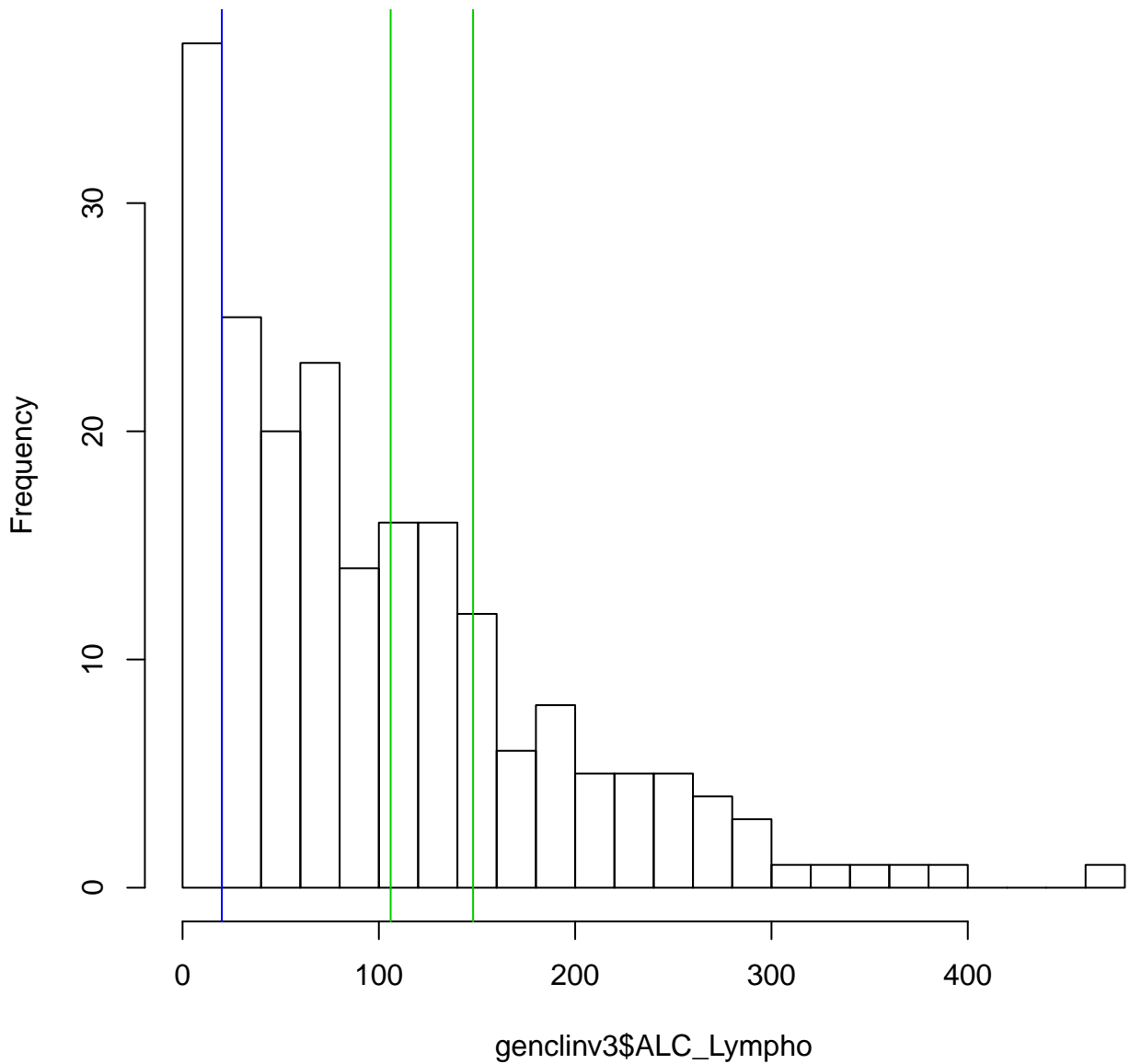
Question1:

Is there a way to group full blood count data?

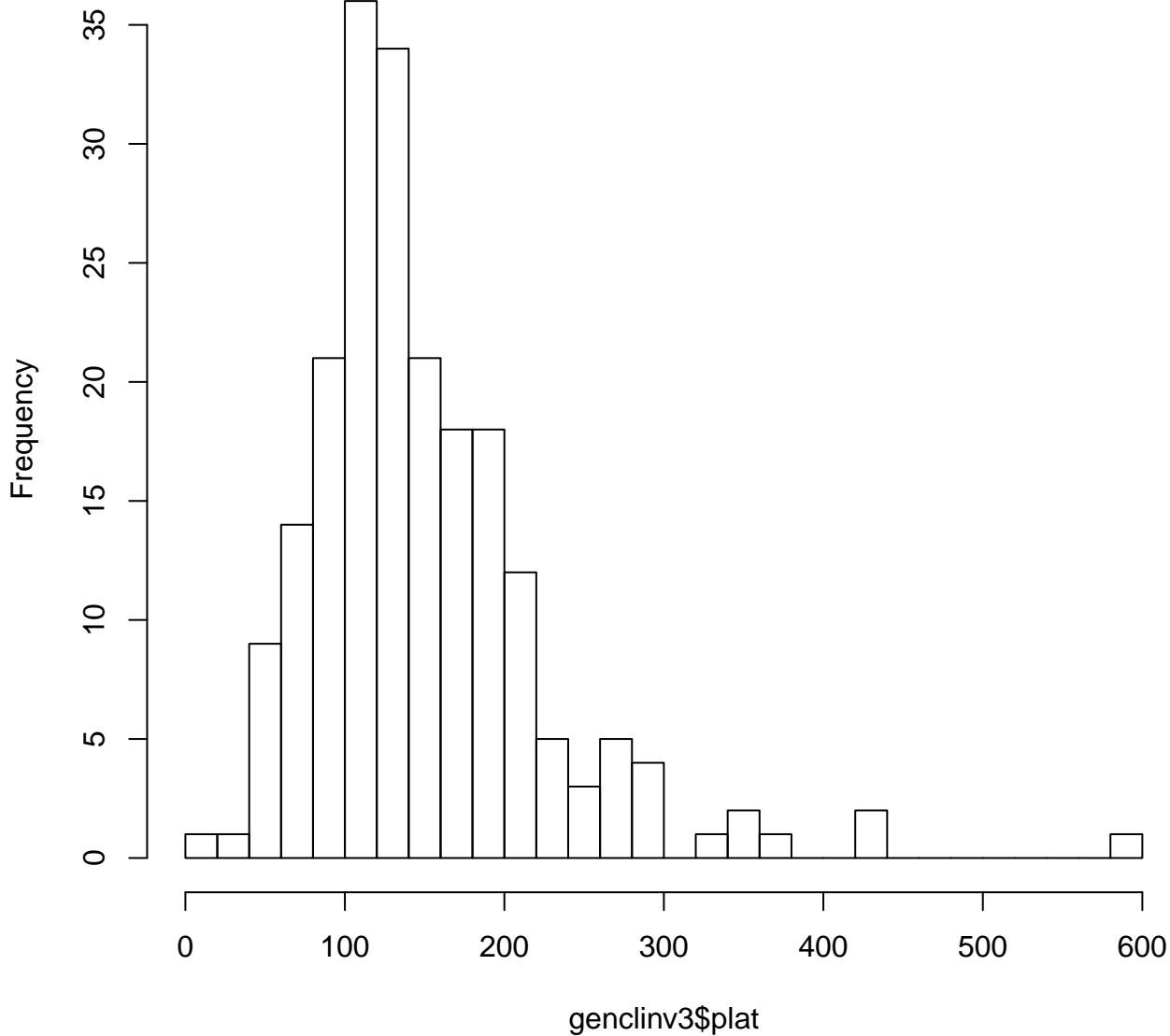
Are there any common standards that are used for deciding if a blood count is abnormal?

I attach an overview of how the data is distributed.

**Histogram of genclinv3\$ALC\_Lympho**



**Histogram of genclinv3\$plat**



**Histogram of genclinv3\$haem**

