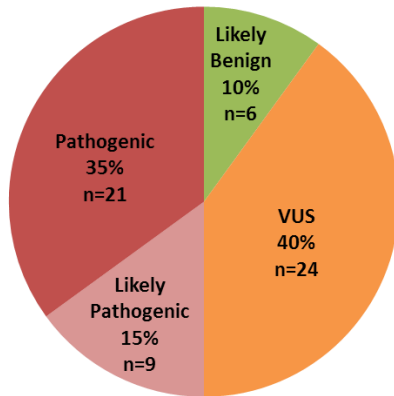
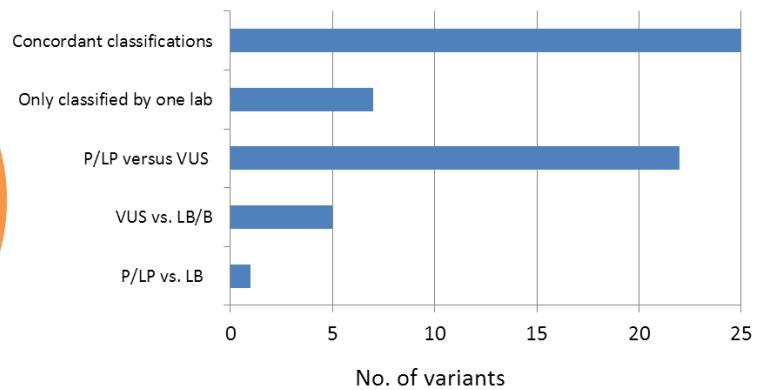


A. Variants by classification



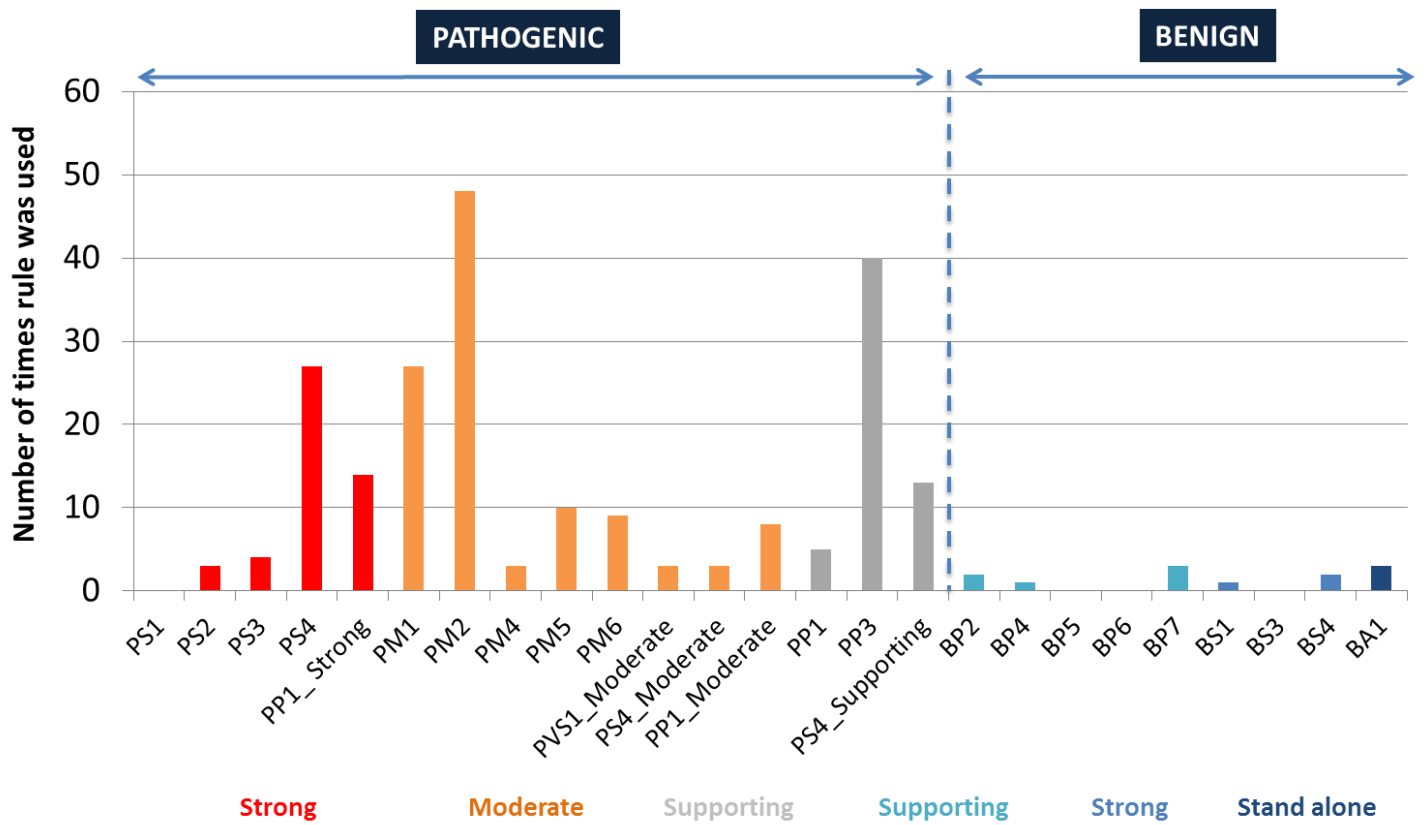
B. Summary of ClinVar classification discrepancies



C. Variant change type

Variant Type	N
Missense	50
FS	1
Silent	2
Intronic	2
Deletion	3
Splice	1
Nonsense	1
Total	60

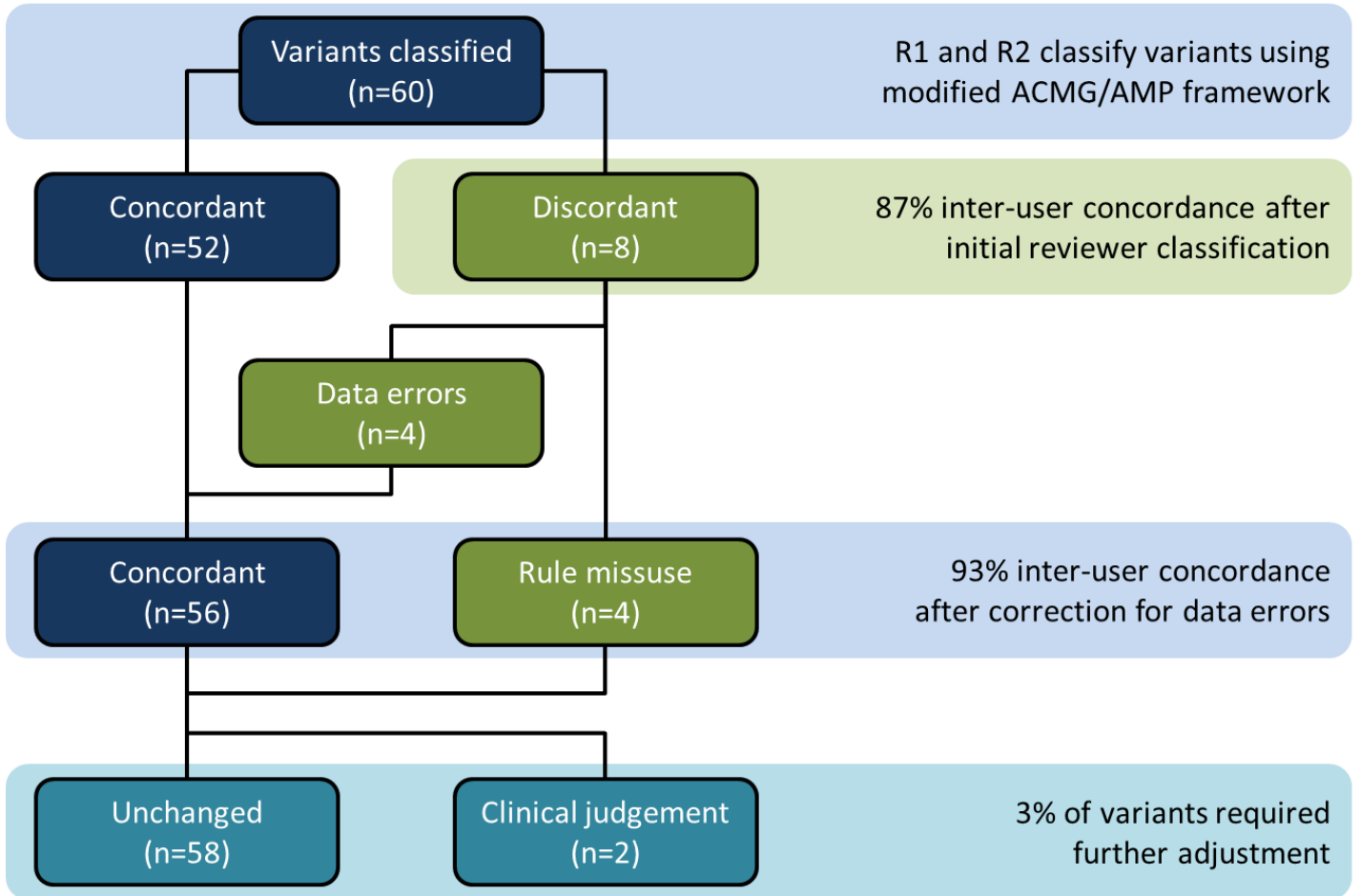
Supplementary Figure 1. Summary statistics for 60 *MYH7* pilot variants at the time of variant selection. Variants with a broad spectrum of classifications and evidence levels were selected. **A.** Classifications of 60 pilot variants from the Partners Laboratory for Molecular Medicine (LMM) at the time of variant selection. **B.** Discrepancies in classifications listed in ClinVar between main cardiomyopathy labs. P = Pathogenic, LP = Likely Pathogenic, VUS = Variant of uncertain significance, LB = Likely benign, B = Benign. **C.** Breakdown of 60 pilot variants by type.



Supplementary Figure 2. Summary of rules that were applied to the 60 MYH7 variants. The not applicable or removed rules are not included above. The variants covered a range of classifications from pathogenic to benign and allowed for 21/25 rules to be tested.

Variant Concordance

Stepwise Summary



Supplementary Figure 3: Summary of underlying factors for variant classification discordance. Numbers in (n) represent the number of variants. R1/R2 = Reviewers 1 and 2.