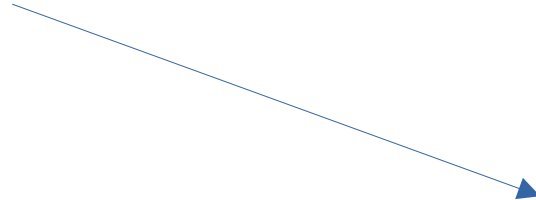
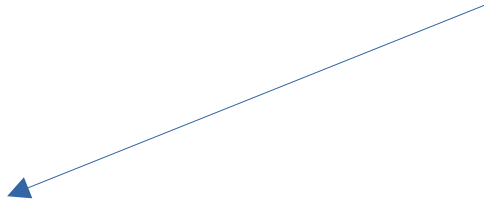


Flowcharts BMD

Summary data



Bartlett test



Ho not rejected for
N and LN

Ho rejected for
N, not for LN

Ho rejected for
LN, not for N

Ho rejected for both
distributions



1 Analysis:
Perform
analysis with
default data

4 Analyses:
1. Using default data
2. Using default data, prior
weights for N models set to 0
3. Set SD of N data to
 $\min(\text{dataN\$sd})$
4. Set SD of N data to
 $\max(\text{dataN\$sd})$

4 Analyses:
1. Using default data
2. Using default data, prior weights for
LN models set to 0
3. Set SD of LN data to $\min(\text{dataLN\$sd})$
4. Set SD of LN data to $\max(\text{dataLN\$sd})$

3 Analyses:
1. Using default data
2. Set SD of N data to
 $\min(\text{dataN\$sd})$, set SD of LN data to
 $\min(\text{dataLN\$sd})$
3. Set SD of N data to
 $\max(\text{dataN\$sd})$, set SD of LN data to
 $\max(\text{dataLN\$sd})$

SCENARIO 1

Individual data

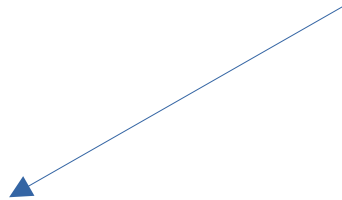


Shapiro-Wilk test



P-val > 0.05 for N and LN

Tests for
homoscedasticity:
- Bartlett
- Levene's test



Levene accepted for N
and LN



1 Analysis:
Perform analysis
using default data



Levene rejected
for N, not for LN



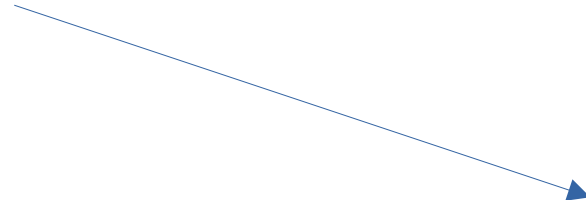
4 Analyses:
1. Using default data
2. Using default data, prior weights
for N models set to 0
3. Set SD for N data to
 $\min(\text{dataN}\$sd)$
4. Set SD for N data to
 $\max(\text{dataN}\$sd)$



Levene rejected
for LN, not for N



4 Analyses:
1. Using default data
2. Using default data, prior
weights for LN models set to 0
3. Set SD for LN data to
 $\min(\text{dataLN}\$sd)$
4. Set SD for LN data to
 $\max(\text{dataLN}\$sd)$

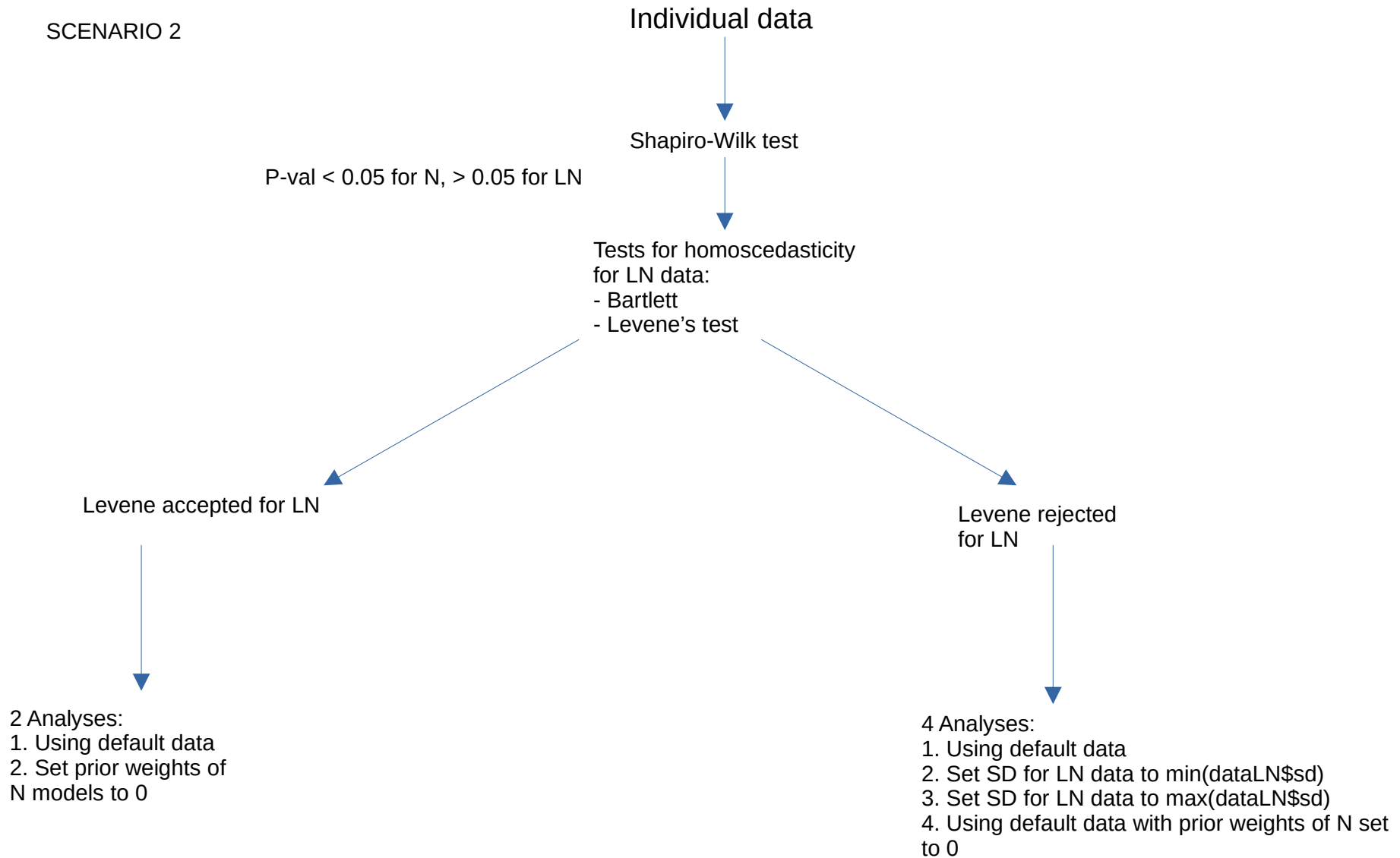


Levene rejected for both
N and LN

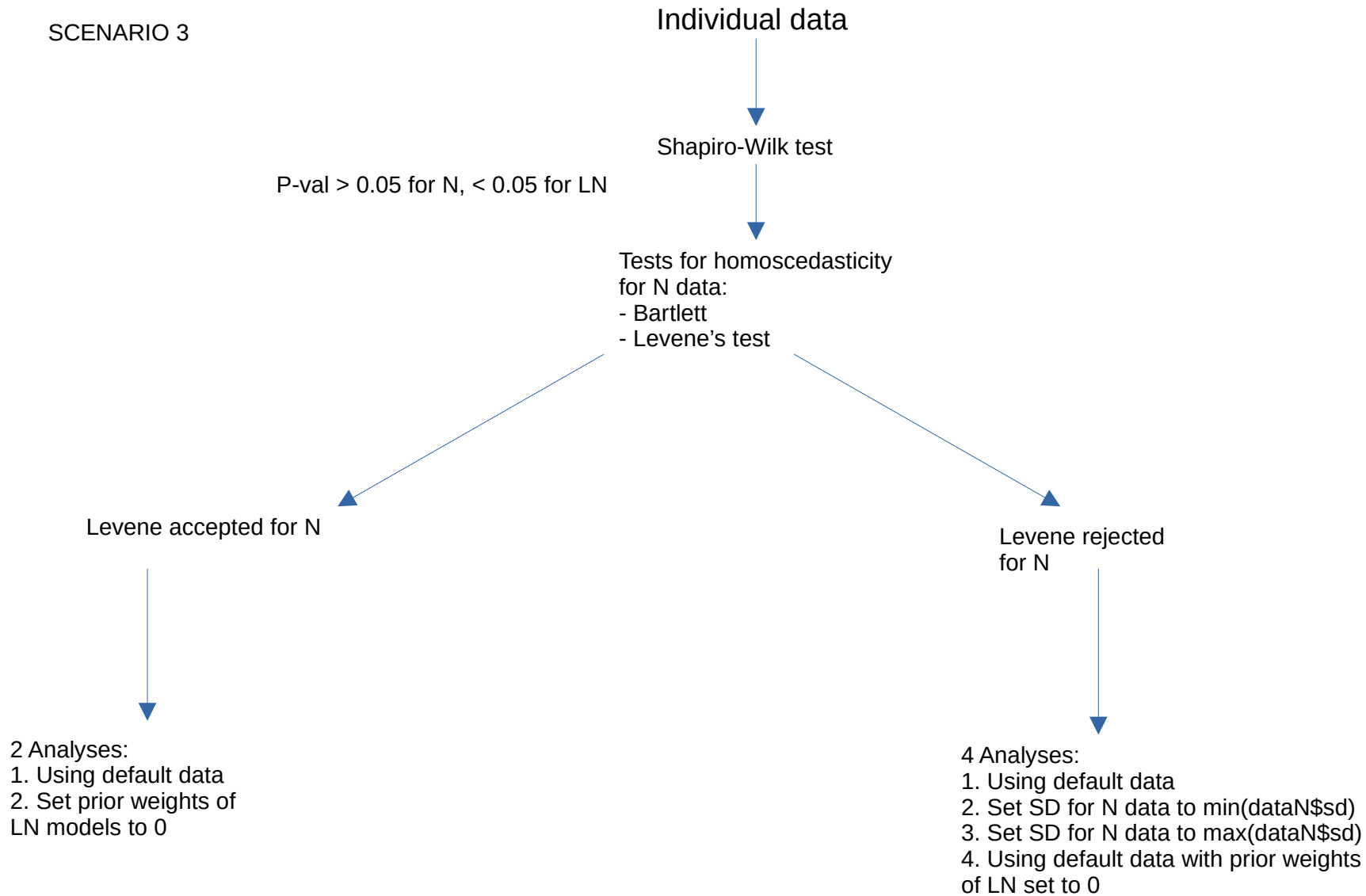


3 Analyses:
1. Using default data
2. Set SD of N data to $\min(\text{dataN}\$sd)$,
set SD of LN data to $\min(\text{dataLN}\$sd)$
3. Set SD of N data to $\max(\text{dataN}\$sd)$,
set SD of LN data to $\max(\text{dataLN}\$sd)$

SCENARIO 2



SCENARIO 3



SCENARIO 4

Individual data

Shapiro-Wilk test

P-val < 0.05 for N
and LN

Add big warning

Tests for
homoscedasticity:
- Bartlett
- Levene's test

Levene accepted for N
and LN

Levene rejected
for N, not for LN

Levene rejected
for LN, not for N

Levene rejected for both
N and LN

1 Analysis:
Perform analysis
using default data

4 Analyses:
1. Using default data
2. Using default data, prior
weights for N models set to 0
3. Set SD for N data to
 $\min(\text{dataN}\$sd)$
4. Set SD for N data to
 $\max(\text{dataN}\$sd)$

4 Analyses:
1. Using default data
2. Using default data, prior weights for
LN models set to 0
3. Set SD for LN data to $\min(\text{dataLN}\$sd)$
4. Set SD for LN data to
 $\max(\text{dataLN}\$sd)$

3 Analyses:
1. Using default data
2. Set SD of N data to $\min(\text{dataN}\$sd)$,
set SD of LN data to $\min(\text{dataLN}\$sd)$
3. Set SD of N data to $\max(\text{dataN}\$sd)$,
set SD of LN data to $\max(\text{dataLN}\$sd)$