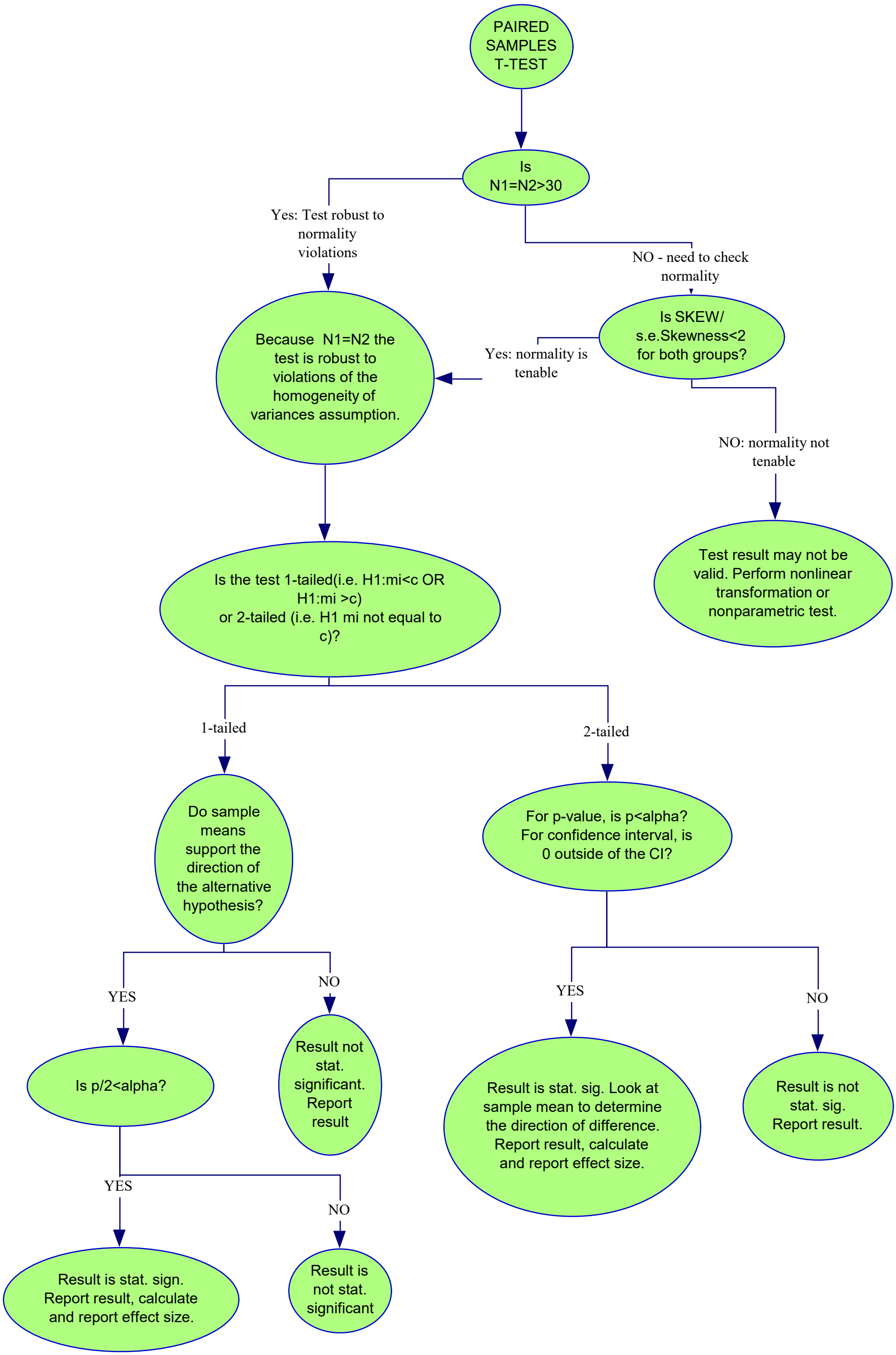
PAIRED SAMPLES T-TEST
Is N1=N2>30
Yes: Test robust to normality violations
NO - need to check normality
Is SKEW/ s.e.Skewness<2 for both groups?
Yes: normality is tenable
NO: normality not tenable
Because N1=N2 the test is robust to violations of the homogeneity of variances assumption.
Test result may not be valid. Perform nonlinear transformation or nonparametric test.
Is the test 1-tailed(i.e. H1:mi<c OR H1:mi >c) or 2-tailed (i.e. H1 mi not equal to c)?
1-tailed
2-tailed
Do sample means support the direction of the alternative hypothesis?
For p-value, is p<alpha? For confidence interval, is 0 outside of the CI?
YES
NO
Is p/2<alpha?
Result not stat. significant. Report result
YES
NO
Result is stat. sign. Report result, calculate and report effect size.
Result is not stat. significant
YES
NO
Result is stat. sig. Look at sample mean to determine the direction of difference. Report result, calculate and report effect size.
Result is not stat. sig. Report result.