Table 1: Which test to use?

	Groups		Variable	
ż	Independent	Nominal or	Ordered categorical or	Continuous and
samples	$({\rm unpaired}) {\rm Y/N}$	categorical	continuous and non normal	normally distributed
One	N/A	Sign test	Sign test	t-test
sample		(binom.test)	(binom test)	(t.test)
		χ^2 test	Kolmogorov-Smirnov test	
		(chisq.test)	(ks.test)	
Γ	Yes	$\chi^2 \text{ test(2xK)}$	Mann Whitney rank sum test	Unpaired t-test
sample		(chisq.test)	(wilcox.test)	(t.test)
		Fishers exact test	Median test	
		(fisher.test)	(chisq.test)	
	No	McNemars test	Wilcoxon signed rank test	Paired t-test
		(McNemar.test)	(Wilcox.test)	(t.test)
			Sign test	
			(binom.test)	
Multiple	Yes	$\chi^2({ m r} \ { m x} \ { m k})$	Kruskal-Wallis	Analysis of variance (ANOVA)
Samples		(chisq.test)	(kruskal.test)	(Aov)
$((\mathrm{k}{>}2)$			Median test	
			(chisq.test)	
	Yes (ordered)			Jonckheere-Terpstra (trend) test
				(jonckheere.test)
	$^{ m ON}$	Cochran Q-test	Friedman test	Repeated measures ANOVA
		(not covered in course)	(friedman.test)	(aov)