In 1996 Hillary Rodham Clinton published her book "It takes a village". She borrowed this title from an African proverb "It takes a village to raise a child". In the same year during presidential election campaign, the republican nominee Bob Dole taunted on this title and said "...with all due respect, I am here to tell you, it does not take a village to raise a child. It takes a family to raise a child.".

I agree to both these notions when arguing for encouraging truth in reporting the research results. I consider supervisors, consultants, co-investigators, statisticians, epidemiologist, colleagues and institution as 'the family' of a researcher. Likewise for me reviewers, editors and readers are 'the village' of researcher. I think all the family members and all the villagers have a responsibility towards inculcating truthfulness in reporting the results of research. If they do not understand their obligation, and take part in 'raising the researcher', we will have loads of suspicious, falsified or fabricated results and eventually we will lose our trust in 'evidence'.

At the start of a research carrier every researcher learns from 'the family' and 'the village' that research starts with a hypothesis. A 'Null hypothesis' (Ho) is an 'answer in no' to the research question that reflects non-significant effect of the independent variable on the dependent variable. The researcher by research tries to disprove the null hypothesis; if the null hypothesis is rejected that means there is statistical evidence for acceptance of the alternate hypothesis. An alternate hypothesis is, therefore, always required. An 'Alternate hypothesis' (Hi) in its simplest definition is an 'answer in yes' to the research question, a significant effect or relation, exactly what a researcher actually wants to achieve, thus creating a 'biased hypothesis'. Both these hypotheses work together, if a researcher does not have a null hypothesis the research is statistically invalid, if there is no alternate hypothesis the research lacks a conclusion.

A researcher might think or may be told by 'the family' that in case 'Null' is not rejected the project will fail, the sky will fall, time and money will be wasted, the supervisor will be unhappy, the sponsors will be furious, examiners will be distraught and no journal will accept the article. Therefore in such cases a sympathetic family member (generally a statistician) is approached and requested to help in a way that the 'results become significant'. If this fails a family member with a 'criminal mind-set' steps in and the cycle of 'falsification & fabrication' sets in. The evidence gets flawed. The truthfulness in research is compromised.

In my humble academic, research and medical journalism carrier I have rarely, if ever, seen an article, a dissertation or a final report failing to disprove the 'Null hypothesis'. Does this mean that the 'Null' is always rejected in our setup? Is it scientific? Is it truthfulness? There are only two possibilities, and both are disastrous. First the Null is rejected by falsification or fabrication and the second that the researchers do not report negative studies due to myths of fears mentioned above.

'Negative study' is a misnomer used for studies which fail to disprove the null. Actually a negative study simply means in the words of Edwin Carstensen (cited by Marino AA) "that a researcher looked for the wrong thing in the wrong place at the wrong time." However the sky does not fall. It has been my firm belief initially, and now a tested practice for the last many years that if we remove phobia of so called 'negative research' from the minds of researchers we can have truthfulness in research results.

I advocate to 'the families' and 'villagers' of all current and future researchers to raise their child with no fear of acceptance of the null. Mentor them to go for 'the win' using best of the resources, but teach them not to be 'bad losers' if that is the situation. We all need to know and to propagate that failure to reject the null hypothesis is not bad. The research did not fail, it actually succeeded. We failed to give a difference, correlation, cause or effect, but we added important knowledge to the cumulative knowledge of the village. No one else will waste time, no more time or money will be wasted. There is a role of supervisors, consul-
**“It Takes A Village”…. Tolerating The ‘Negative Studies’**

As far as publishing the ‘negative studies’ is concerned I fully endorse the pre requisite suggested by Bruce G Charlton that “to be worth publishing as a negative result, the authors of that paper need to demonstrate that they have gone to strenuous lengths to give the method a chance to yield positive results”.5

Publication bias against the negative studies is called “file-drawer effect” because negative studies get filed away and rarely published by the researchers or by the editors.6 While many science journals prefer publishing studies with exciting new or positive findings,7 yet most journals publish the ‘negative studies’ after routine rigorous peer review. In addition there are many high profile journals with good impact factors that are dedicated to the ‘negative studies’ only. Some of the examples are ‘Journal of negative results in biomedicine’, ‘Journal of pharmaceutical negative results’ and ‘Journal of negative results’.

The phobia of the ‘negative study’ is universal; the remedy has to be made universal. If we pick up a few journals from library and have a look at their articles, we will rarely find any article that has not disproved the null hypothesis. Most busy institutions lack a ‘supportive family’ and the researchers are often left on their own. Mentoring needs a ‘whole family’ and not just being attached to a supervisor. In my opinion the first step to ensure truthfulness in research is to accept and teach that after rigorous efforts if one gets ‘negative result’ it is no problem; it is contribution to knowledge. Don’t just believe in it, please start tolerating the ‘negative studies’ to encourage fulness in research.

### REFERENCES


