I am an adult neurologist, not a paediatrician, not a gastroenterologist, and not an immunologist. Even so, taking a dispassionate and wide view of the published and unpublished information, I think there is increasingly compelling evidence for a causative link between the MMR vaccine, a unique gastrointestinal disease, and regressive autism.

I examined the original cohort of children, and they had no physical neurological abnormalities. I have recently seen one of them again. His behaviour is much worse, at times being uncontrollable. He has developed epilepsy and bilateral extensor plantar responses.

The problem now is to identify the numbers of children involved, and the susceptibility factors. In the meantime, consideration should be given to offering children single-injection measles vaccinations.

I am a trustee of the charity Visceral, which supports research into inflammatory bowel disease and autism.

Peter Harvey
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For references, see http://image.thelancet.com/extras/03cor1209webref.pdf

Author’s reply

Sir—David Thrower and Peter Harvey raise issues about my letter, which I wrote because I was angered by a report of life-threatening measles in immunocompromised children, 1 an increasingly common group now at particular risk due to low uptake of the measles, mumps, and rubella (MMR) vaccine. I have no financial interest, and the views expressed are my own. I concur with parts of both letters, agreeing that we and others have identified gut pathology in autistic children, and that there should be more research. Both letters however miss my central point, which was emphasised in the title. A subtle form of intestinal inflammation has been confirmed, but this does not mean that MMR is the cause of either this lesion or of autism. That some regulatory authorities ridiculed all aspects of these studies is unfortunate because it has allowed confirmation of the intestinal lesion to be appropriated by the anti-MMR lobby. I know that Buie and Krigsman have replicated our findings, and suggest that controversy over the existence of this lesion will be settled when they publish in peer-reviewed journals. Such publication is needed to demonstrate misunderstanding of our findings; therefore I should clarify what we have described. First, the lesion is not histologically unique, and features are relatively non-specific without special staining, although distinct from classic inflammatory bowel disease. 2 Second, ileal lymphoid nodular hyperplasia (ILNH) is a frequent, although not invariable, finding. Follicles are sometimes strikingly large, but this finding is neither specific nor diagnostic, since ILNH is increasingly recognised in children with food allergies. 3 Further immunological characterisation, by comparison with ILNH due to other causes, is thus required before any conclusions can be drawn about specificity. Third, the abnormal circulating lymphocyte subsets mentioned by Harvey 4 also overlap with our findings in food allergy. 5 Harvey overstates our findings to suggest a degree of specificity that I and my fellow clinicians, who have actually seen and investigated these children, do not seek to claim.

Our extensive immunohistochemical characterisation, by comparison with numerous controls, provides much stronger evidence to suggest a unique lesion. We found increased infiltration of CD8+ T cells in colon, duodenum, and stomach. 6 Their distribution is important because these cells cluster around the epithelium at each site studied. Although a viral cause should be considered for any CD8-dominated lesion, the periepithelial distribution of these cells is not consistent with any suggestion that this lesion might be driven by persistent measles infection. To my knowledge, no epithelial localisation of measles has been seen in any child by any technique at any level in the gut. Some of the features might be consistent with a low-grade autoimmune response to an epithelial determinant, 7 but this is by no means proven, and requires further study. Work should also continue into the disordered gut motility seen in so many of these children, 8 and I hope that this department will continue to contribute.

Harvey’s contention that detectable RNA represents persistent measles infection is premature. Koch’s postulates remain unfulfilled—ileal follicles from several children were cultured with measles-susceptible Vero cells, and not one transmitted infection. John O’Byrney has shown the presence of fragments of measles RNA using the highly sensitive TaqMan PCR technique. 9 He has spoken in