We have recently reported (J Clin Pathol 1979; 32: 542) a comparison of haemagglutination-inhibition (HI), single radial haemolysis (SRH), and enzyme-linked immunosorbent assay (ELISA) for the detection of rubella antibody. In a series of 1000 sera we identified 14 sera that were ELISA positive but had no detectable rubella antibody by either HI or SRH. We have interpreted this finding as indicating the incidence of false-positive results by ELISA. We have now tested these 14 sera at a single dilution (1 in 10) for rubella IgG antibody by immunofluorescence (IF) using coverslip cultures of BHK21 cells infected with Judith strain virus (Cradock-Watson et al. Ann NY Acad Sci 1975).