

programmes in medically underserved populations must take into account both the prevalence of asymptomatic infections and the current health related practices of people with symptoms to design appropriate strategies to reduce transmission of these diseases.

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Contributors: LAP was the resident epidemiological adviser, oversaw the execution of the project, and helped with study design and analysis. NK was trial medical officer and helped in implementing the project, in field work, and in collecting data. FN was trial field supervisor and helped develop data collection and quality control procedures and oversaw them. RG was co-principal investigator and contributed to study design, implementation, and data analysis. MJW was the principal investigator, helped with study design, implementation, execution, and data analysis, and is guarantor for the study. N Sewankambo was Uganda principal investigator and was responsible for study design, implementation, and data interpretation. D Serwadda was Uganda co-principal investigator and was responsible for study design, implementation, monitoring, and data interpretation. D McNairn

and M Meehan coordinated and supervised in-country laboratory activities. T Lutalo and F Makumbi were data managers and contributed to data analysis and interpretation.

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Drug points

Prolonged urticaria with 17-1A antibody

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17-1A antibody, a mouse monoclonal antibody, has proved to be efficacious in the adjuvant treatment of colorectal carcinoma of Duke's type C, reducing the death rate by 30% and the relapse rate by 27%.^{1,2} Cutaneous side effects have been reported. We report a case in which skin lesions persisted for months after treatment was discontinued.

A 73 year old woman was diagnosed as having adenocarcinoma of the colon in 1996 and was treated by subtotal colectomy. According to an established treatment protocol, she was given intravenous 17-1A antibody (Panorex) at a dose of 500 mg two weeks before tumour resection, followed by four infusions of 100 mg at intervals of four weeks thereafter. Four days after the second infusion she developed a burning rash characterised by red macules and weals, but she did not have any systemic side effects. Six weeks after the last drug infusion she had sharply demarcated erythematous macules, some of which were as large as the palm of a hand. The lesions were blanched at the centre with discrete brownish discoloration and looked like urticaria (figure). Histopathology of the lesions showed a superficial perivascular dermatitis. Direct immunofluorescence analysis showed a positive reaction at the vessels with C3 complement. Laboratory findings were normal. The lesions did not totally resolve between treatments, and readministration of the drug always slightly increased their severity. The skin lesions disappeared around four months after the last infusion.

The clinical and histological findings as well as the link between repeated infusions and development of the lesions indicated a drug rash, but a causal relation was not finally proved. However, infused antibody elicits both a humoral and a T cell response against idiotopes. Although the induction of an immune response like a cascade might be important for destroying tumour residues, in patients who are almost disease free the concentrations of antibodies might induce allergic reactions.³⁻⁵



Urticarial rash with 17-1A antibody. Reproduced with patient's permission

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