

# Patients in isolation

**ANTHONY CARR** continues the series with an outline of Newcastle Health Authority's policy on isolating patients who are likely to infect others and those who are highly susceptible to infection and need protection.

**A**LL WARD STAFF need to know the policies that are established in the district for the isolation of patients who are identified as having infection.

The Newcastle Health Authority policy uses two classes of isolation: source isolation — this is for patients who are sources of pathogenic micro-organisms, which may spread from them and infect others; and protective isolation — for those patients who are rendered highly susceptible to infection by disease or therapy.

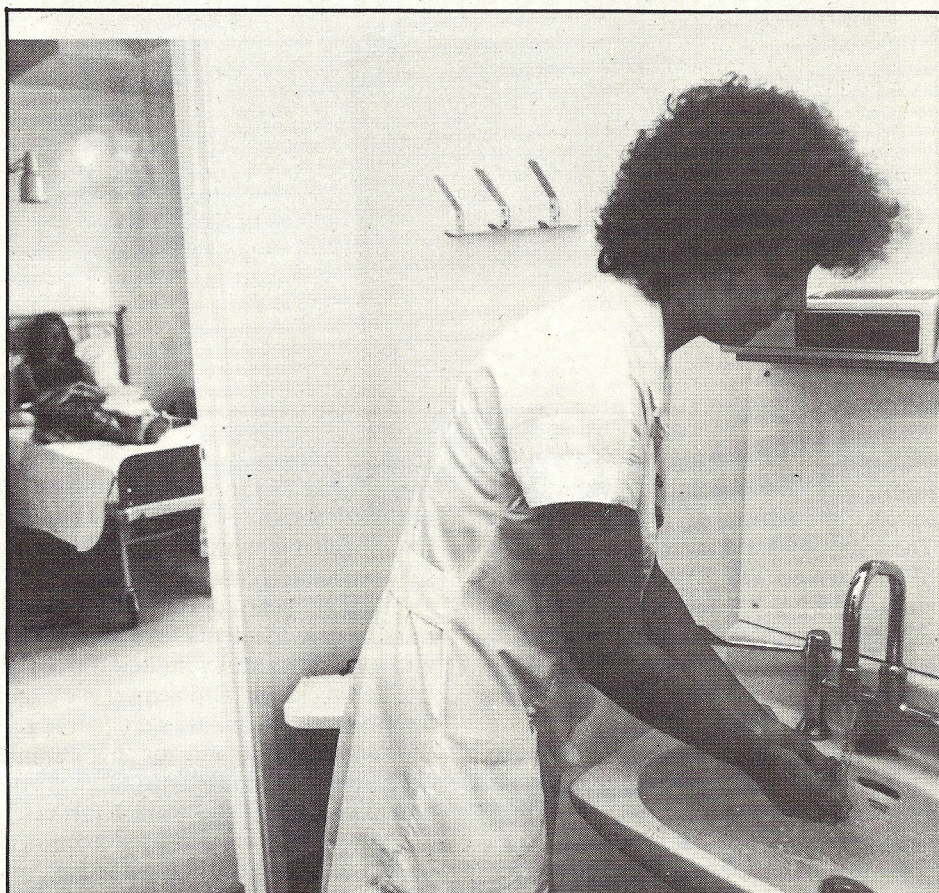
Source isolation should be of two types: strict — for highly transmissible or dangerous diseases, and standard — for other communicable diseases. It is expected that resorting to strict isolation will only be temporary, pending transfer to the district infectious diseases unit.

The Newcastle HA policy statement has three appendixes (Tables I, II and III). The first table lists the conditions for which standard isolation is necessary, describing whether it is a notifiable disease and indicating when isolation should end. For instance, chicken pox is not a notifiable disease and isolation can be ended seven days after the rash has erupted. Table II identifies conditions of strict isolation and Table III deals with protective isolation.

High safety isolation facilities are provided at the Newcastle General Hospital for the isolation of suspected cases of viral haemorrhagic fever, which should be suspected in patients developing fever within 20 days of return from Africa. If this diagnosis is suspected, the infection control officer in your hospital should be contacted.

The type of isolation is indicated by coloured cards, bearing the list of precautions to be taken, affixed to the cubicle door: standard isolation (blue card); strict isolation (red card); protective isolation (white card).

The conditions to which these types of isolation apply are listed in the booklet provided for each ward, on pages corresponding in colour to the isolation cards (see Tables I, II, III). Cards are



It is essential that thorough washing of hands takes place after treating source isolation patients.

obtained from the infection control nurse or her deputy.

It is the consultant's ultimate responsibility to decide whether a patient should be isolated, but guidance is given in the policy document.

When patients are isolated, it is strongly recommended that the infection control nurse should be informed, so that any variation in the recommended precautions required in a particular case can be discussed.

A patient in either of the two types of source isolation should be nursed in a single room, preferably with extract ventilation (with outlet to exterior) and an air lock anteroom. The door should normally be kept closed; if there is an air lock vestibule, only one of the doors should be open at a time and windows should be kept closed.

For protective isolation, a single room is necessary and the patient must remain in it. This should not be in the proximity of infected patients and

should, if possible, have an air lock.

Isolated patients should not leave their rooms, except for essential visits to departments such as X-ray, electrocardiogram, operating suite or obstetric delivery rooms. Before any such visit is arranged, first ask: "Is the visit absolutely necessary?" and "Can the special procedure be carried out in the isolation room with portable apparatus?"

The minimum amount of cleaning should be carried out in isolation rooms by nursing personnel at the discretion of the ward sister. In some hospitals trained domestic staff may undertake these duties. Separate cleaning equipment should be reserved for each isolation room to deal with accidental spillages. When the patient moves out, cleaning should be carried out by domestic staff, dressed according to the rules given in Table IV (page 32). Everyone entering an isolation room must comply with the recommended procedures listed ☐

*Anthony Carr, SRN, NDNcert, QN, is chief nursing officer, Newcastle Health Authority.*



Condition Proven or suspected cases	Notifiable disease	Indications for ending isolation
Cutaneous anthrax	Yes	Consistently negative swabs
Burns		
Wounds } with extensive sepsis		Negative swabs and two negative specimens
Bedsores }		
Bronchiolitis in infants		Clinical recovery
Childhood infectious diseases		
Chicken pox		Seven days after onset of eruption
Measles	Yes	Seven days after onset of rash
Mumps		Nine days after appearance of swelling
Rubella	Yes	Seven days after onset of rash
Scarlet fever	Yes	24 hours antibiotic therapy
Whooping cough	Yes	Clinical recovery
Encephalitis	Yes	Clinical recovery
Erysipelas		Negative cultures
Gonococcal conjunctivitis/pharyngitis		24 hours antibiotic treatment
Gastrointestinal infections (excluding exotoxin food-poisoning)		
Cholera	Yes	Negative cultures
Bacillary dysentery	Yes	Discharge from hospital or clinical recovery
Salmonellosis	Yes	Negative cultures or discharge from hospital
Campylobacter	Yes	Negative cultures or discharge home
Enteric fever	Yes	Negative cultures or discharge home
<i>E coli</i>		Negative cultures or discharge home
Hepatitis (viral)	Yes	Discharge home
Herpes simplex in infants		Clinical recovery
Herpes zoster (under certain circumstances)		Until lesions dry
Impetigo		Negative cultures
Influenza		Clinical recovery
Leprosy (smear positive)	Yes	Smears microscopically negative
Leptospirosis	Yes	Discharge from hospital
Meningitis – meningococcal	Yes	24 hours antibiotic treatment
– viral	Yes	Clinical recovery
Poliomyelitis – acute	Yes	Seven days from onset
Psittacosis		Clinical recovery
Puerperal sepsis		Negative cultures or discharge home
Scabies		Clinical recovery
Staphylococci – multiresistant		Negative cultures or discharge home
Tuberculosis – open	Yes	Smears negative or discharge from ward
Typhus	Yes	Effective delousing

Table I: Conditions for which standard isolation is necessary.

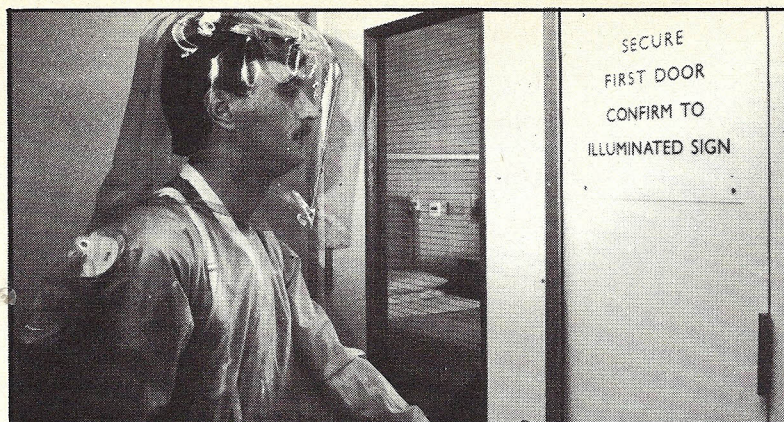
Condition Proven or suspected cases	Notifiable disease	Indications for ending isolation
Diphtheria	Yes	Negative cultures
Generalised vaccinia		Clinical recovery
Pulmonary anthrax	Yes	Clinical recovery
Rabies	Yes	
Viral haemorrhagic fevers		
Lassa	Yes	
Ebola	Yes	Negative cultures and clinical recovery
Marburg	Yes	

Table II: Conditions for which strict isolation is necessary.

Condition
Agranulocytosis
Immunodeficiency – primary
– associated with leukaemia, lymphoma or immunosuppressive therapy
Severe uninfected – dermatitis
– burns

Table III: Conditions for which protective isolation is necessary.





High isolation facilities for a Lassa fever ward at Newcastle General Hospital.

The suit is immediately autoclaved on leaving.

	Standard isolation	Strict isolation	Protective isolation
<b>Hand washing</b>	After contact with patient. With Betadine or Hibitane detergent followed by careful drying		Before entering and after leaving room. With Betadine or Hibitane detergent
<b>Clothing</b>	Disposable plastic aprons, to be disposed of on leaving room. No gowns. Shirt sleeves rolled above elbows	Plastic aprons beneath gown. Cotton gowns. Place in alginate bags and treat as contaminated	Long sleeved cotton gowns worn by everyone entering room
<b>Masks</b>	Not necessary	Limited application of filter type when examining mouth or carrying out sigmoidoscopy	Filter type must be worn
<b>Gloves</b>	Disposable plastic gloves only (NOT Surgeon's gloves) for handling infected sites/contaminated material/bedding or if nurse has skin lesions	Plastic gloves used for procedures involving patient or materials in contact with patient	Disposable plastic gloves used by all persons handling patient and objects in contact with patient
<b>Caps/hats/shoe covers</b>	Not necessary	Not necessary	Disposable paper theatre hats to cover hair completely
<b>Linen</b>	All items sealed in alginate stitched bags taking care not to contaminate outside, then dispatched in the foul linen red bag. Autoclaving not necessary when foul linen washing facilities are available		Clean linen from the laundry is usually satisfactory
<b>Equipment</b>	Full diagnostic kit and once taken into room should remain there until patient is discharged		
<b>Crockery and cutlery</b>	Disposable items or if hot wash facilities are adequate (check with infection nurse) standard items to be taken to kitchen in plastic bags	Disposable items must be used	Food and crockery from kitchen is satisfactory
<b>Infective secretions</b>	Used paper handkerchiefs, sputum cartons and so on, for pulmonary tuberculosis are sealed in orange bags marked "for incineration"		
<b>Charts</b>	Patients charts kept outside room		
<b>Exclusions</b>			No person, staff or visitor allowed in room if he has any infection or potentially exposed lesion
<b>Disposal of used items</b>		All items to be placed in large orange bags marked "for incineration"	

Table IV: Procedures for standard, strict and protective isolation.