

London-wide GP webinar - Measles

21st February
Chaired by
Dr Genevieve Small
Medical Director for Primary Care NHS NW London

London-wide GP webinar- Measles

21st Feb 20241-2pm

Time	ltem	Presented by
1pm	Welcome	Dr Genevieve Small Medical Director for Primary Care NHS NW London
1:05pm	National and London picture	Dr Shamez Ladhani Consultant Epidemiologist, Immunisation and Countermeasures Division, UK Health Security Agency
1:10pm	Diagnosing measles in primary care	Dr Elizabeth Whittaker Consultant Paediatric Infectious Diseases and Immunology, Imperial College Healthcare NHS Trust
1:25pm	Notifying measles cases to HPT	Nalini Iyanger, Consultant in Health Protection, North West London Health Protection team, UKHSA
1:35pm	Infection Control in primary care	Nicola Sirin, Regional Infection Prevention and Control Lead, NHS England - London
1:45pm	Questions from attendees (selected from chat)	Dr Hannah Theodorou Medical Director, Londonwide LMCs
2pm	Close	

Please add your questions to the chat. We will aim to answer as many as possible on the day.



Measles in 2023/2024 Epidemiology

Dr. Shamez Ladhani

21 February 2024

Consultant Epidemiologist, UKHSA
Paediatric Infectious Diseases Consultant, St. George's Hospital, London
Email: shamez.Ladhani@ukhsa.gov.uk

Overview - current situation

- In 2023 we have seen a resurgence of measles in England
- From 1 October, there has been a rapid escalation of cases mainly driven by outbreaks in West Midlands

- Coverage for MMR vaccine in UK has fallen to the lowest level in a decade:
 - national 1st dose uptake in 2 year olds **89.4%**, 2nd dose in 5 year olds **83.8%**
 - to achieve and maintain measles elimination (and prevent outbreaks) we need **95% uptake with 2 doses of the MMR** vaccine by the time children turn 5 years
 - this target is an NHS <u>Long-Term Plan</u> (LTP) commitment and high priority within NHS England



MMR vaccine

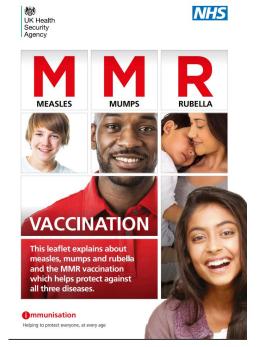
- MMR dose 1 at 1 year of age
- MMR dose 2 at 3 years and 4 months

- 1 dose 95% effective
- 2 doses 99% effective lifelong protection

- Two products available:
 - practices can preferentially order the

A guide to immunisation for babies up to 13 months of age

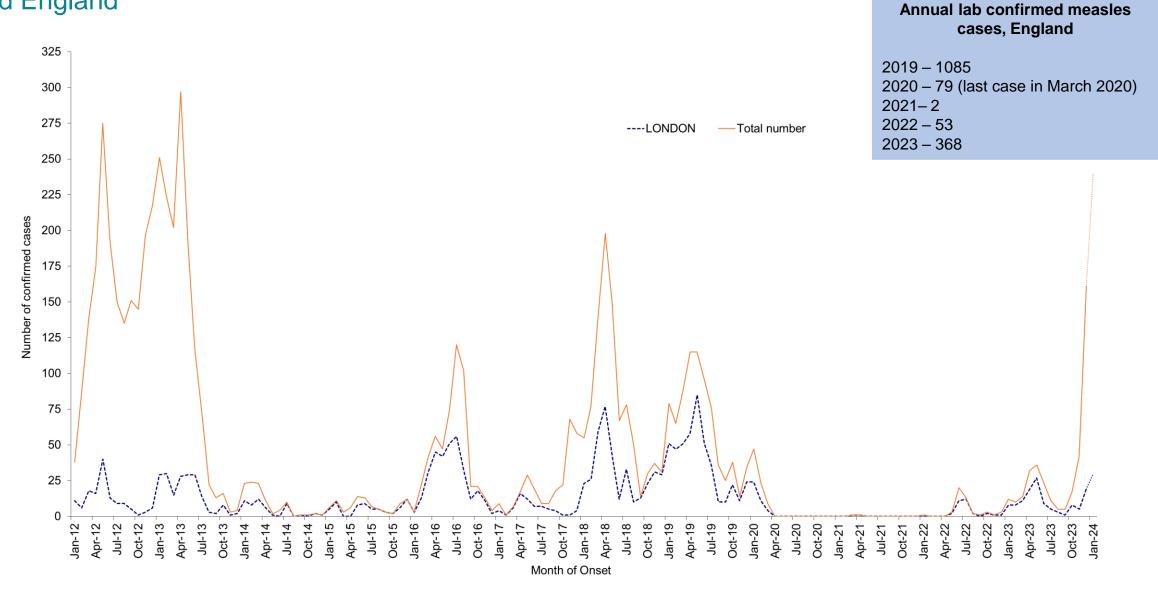




Driving out MMR retaine first exerind undefenathinated communities is key control measure communities. To prevent outbreaks need to reach 95% uptake

Measles total laboratory confirmed* measles cases from January 2012 to January 2024, London and England

Annual lab confirmed measles cases.



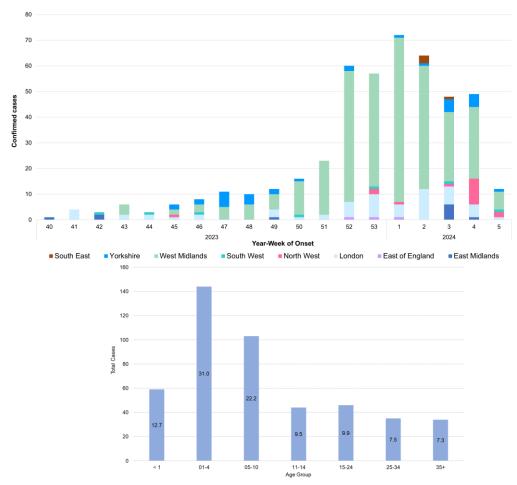
^{*} Cases confirmed through either local or reference laboratory testing

^{**} Data for the past 4 weeks are provisional and subject to confirmation in the reference laboratory and are therefore depicted as dotted lines. One previously confirmed case was a scarce and epidemiological analysis.

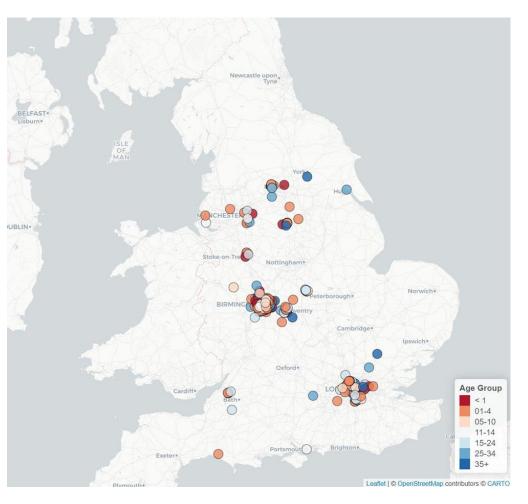
Measles laboratory confirmed cases (Data correct as of 6 February 2024)

Data for 2023: In 2023 we have seen a resurgence of measles in England. From 1 January to 31 December 2023 there were 368 laboratory confirmed measles cases, 122 (33%) of these in London and 160 (44%) in the West Midlands, however all Regions have reported cases; while the London cases have remained consistent monthly, the West Midlands cases were extremely low until December 2023.

Data from 1 October 2023 to 6 February 2024: Data from 01 October 2023 to 06 February 2024: There has been a rapid escalation of activity from October 2023, with 465 confirmed measles cases reported between 01 October 2023 and 06 February 2024. 17 cases were reported in October, 42 in November, 161 in December, 240 in January, and 5 so far in February 2024. 71% (329/465) of these cases have been in the West Midlands, 13% (62/465) in London and 7% (32/465) in Yorkshire and The Humber. The majority (306/465, 66%) of these cases are in children under the age of 10, and 25% (115/465) in young people and adults over the age of 15.

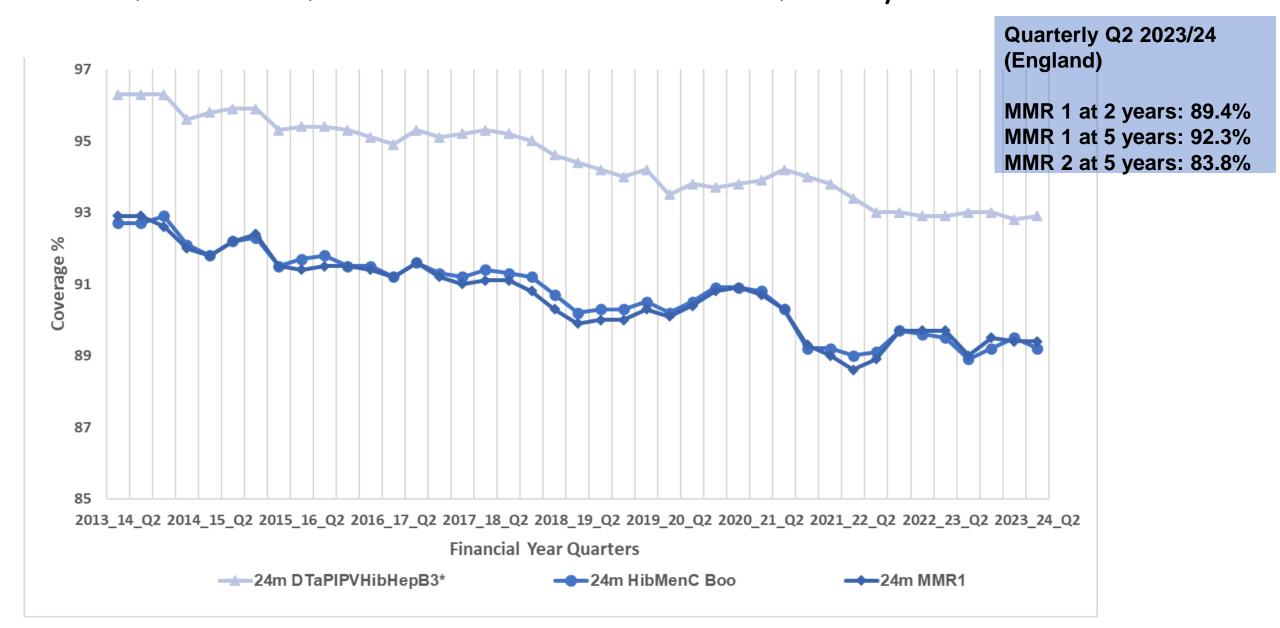


Total (%) lab confirmed measles cases by age group, October 2023 to date, England*



Distribution of lab confirmed measles cases in England, October 2023 to date*

MMR1, Hib/MenC and Hexavalent vaccine coverage in 2 year olds by quarter from Q2 2013 to Q2 2023: Source UKHSA COVER Quarterly statistics



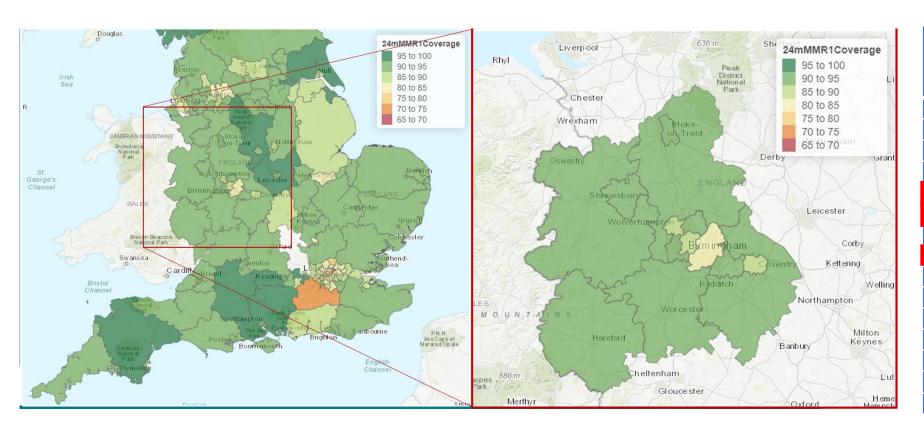
Completed UK primary immunisations at 24 months by NHS England local team: July to September 2023 (April to June 2023)

NHS England local teams	No. of LAs	DTaP/IPV/Hib/HepB3%	MMR1%
London	33	88.8 (88.9)	82.9 (83.1)
North (Yorkshire and Humber)	15	94.0 (93.5)	91.2 (90.2)
North (Lancashire and Greater Manchester) [note 1]	13	91.9 (92.6)	88.9 (89.1)
North (Cumbria and North East)[note 1]	13	96.4 (96.1)	95.0 (94.9)
North (Cheshire and Merseyside)	9	91.9 (92.0)	89.2 (89.4)
Midlands and East (North Midlands)	8	95.4 (94.5)	92.9 (92.1)
Midlands and East (West Midlands)	10	92.2 (91.7)	88.2 (87.7)
Midlands and East (Central Midlands)	11	92.6 (92.8)	91.1 (91.3)
Midlands and East (East)	7	94.5 (94.5)	92.3 (91.2)
South West (South West South)	8	94.7 (94.9)	93.1 (92.8)
South West (South West North)	7	95.4 (95.2)	93.3 (93.1)
South East (Hampshire, Isle of Wight and Thames Valley)	12	95.4 (95.1)	93.3 (93.1)
South East (Kent, Surrey and Sussex) *	6	92.9 (93.2)	84.9 (89.1)

Presentation title 9

^{*} Due to data quality issues this quarter due to a change in provider South East data should be interpreted with caution

MMR vaccine dose 1 coverage in children aged 2 years, England, West Midlands (and Upper Tier Local Authorities)



	MMR1 at 2
	years
Herefordshire	94.5
Telford and Wrekin	92.4
Stoke-on-Trent	93.1
Shropshire	94.2
Birmingham	81.3
Coventry	88.2
Dudley	91.5
Sandwell	86.9
Solihull	92.8
Walsall	92.6
Wolverhampton	86.1
Staffordshire	93.7
Warwickshire	93.7
Worcestershire	93.8

Predicting outbreaks – UKHSA modelling

- Risk assessment of measles resurgence in the UK published July 2023
 - current MMR uptake levels lowest in a decade
 - during pandemic increased pool of susceptibles in younger children <u>around 1 in</u>
 10 children starting school at risk of measles
 - London remains most vulnerable region (also most likely to get importations) <u>could</u> <u>sustain large outbreaks 40,000 - 160,000 cases</u>
 - high risk of outbreaks in:
 - inner-city areas with some risk of limited spread to the wider community
 - under vaccinated communities e.g. migrant populations, traveller communities, and ultra-orthodox Jewish communities
- Risk of spillover of current outbreak to other localities and Regions: work underway
 to improve uptake and shore up defences



Measles – a HPT perspective

Nalini Iyanger Consultant in Health Protection North West London HPT

21.02.2024

HPT response

- Assess whether a reported case is considered likely or unlikely
- Send test kit to all cases, but this is for surveillance purposes only
- If likely case, identify contacts and give advice to prevent spread
- If vulnerable contacts identified, we may arrange urgent testing
- Identify and manage outbreaks in settings e.g. school with NHS and Local Authority colleagues

HPT response – Managing contacts of likely cases

Vulnerable contacts - Ideally within 72 hours of exposure

- Immunocompromised contacts IVIG if assessed to be susceptible
- Pregnant women- HNIG if considered to be susceptible
- Under 1s MMR or HNIG depending on age and where exposed

Susceptible, healthy contacts

• If unvaccinated, MMR within 3 days of exposure. Will request GP to do this

Contacts may still get measles so important to flag and isolate in general practice if attending with rash illness in the next 3 weeks following exposure.

Likely requests from general practice for individual cases

- Assess any exposures in general practice
- Vaccinate contacts
- Check immunity
- Administer HNIG. HPT will source.
- Flag contacts in case they become unwell and present to the practice

Actions for general practice to take now

- Maintain a robust routine vaccination programme
- Call- recall of eligible patients and opportunistic catch ups
- Check vaccination history of staff (including non clinical) and offer vaccination where no history. Exposed staff with no vaccination/immune history will be asked to exclude for up to 21 days.
- Put in processes to identify pts with fever and rash (including adults) and isolate them on arrival.
- Send notification to HPT when measles is suspected -<u>https://www.gov.uk/guidance/contacts-phe-health-protection-teams#north-west-london-hpt</u>

When to notify

- Notify on clinical suspicion
- Notify by email using the <u>London notification form</u>. Unless contact of concern, in which case phone the HPT.
- Provide information that allows us to assess whether case is likely or unlikely
 - Does the case meet the case definition for primary measles?
 - Clinical history- why measles is suspected, presence or absence of relevant symptoms and onset dates
 - MMR status
 - Epidemiological link- Is there a link to existing case or outbreak setting or travel to endemic country?
 - Any contacts of concern in the household? Particularly immunosuppressed contacts.

Vaccination recommendations

- Remain as per usual green book advice and PGD MMR1 at 1 year and MMR2 at 3 year and 4 months (MMR2 at 18 months in some boroughs, according to local arrangements)
- No current recommendation to routinely vaccinate under 1s. Only if specifically requested by HPT as part of contact management
- No current recommendation to routinely bring forward MMR2. Only if specifically requested by the parent or by the HPT as part of contact management
- There is no upper age limit to giving the MMR– 2 doses a month apart

More information in the green book and your PGD

Measles

Infection prevention and control measures for GP practices

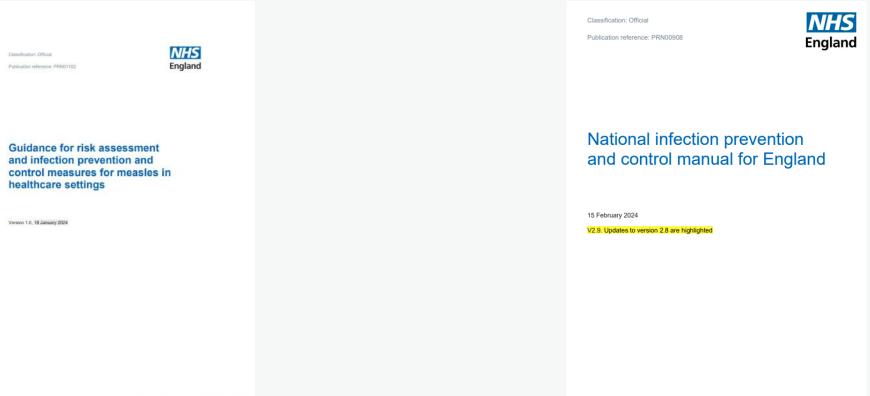
February 2024



Infection prevention and control: national guidance

NHS England » Guidance for risk assessment and infection prevention and control measures for measles in healthcare settings

NHS England » National infection
prevention and control manual (NIPCM)
for England



Infection prevention and control basics

- Principles of standard infection control precautions (SICPs) for all patients whether infection is known to be present or not.
- Transmission based precautions (TBPs) should be applied additionally when SICPs alone may be insufficient to prevent cross transmission of specific infectious agents.
- Local risk assessment: Think Measles primary care actions for screening, triage and management; IPC hierarchy of controls.
- Check practice staff immunity status: all staff involved in direct patient care, including anyone who has contact with patients e.g. reception staff, should have documented evidence of two doses of the MMR vaccine or positive antibody tests for measles and rubella, in line with national guidance.

Measles cases are most likely to contact primary care first including general practice, community pharmacy, dental, and optometry (eye health) services

Receptionists / counter staff should know that any patients with fever and rash are potentially infectious

A patient reporting fever AND rash AND one of coryza OR cough OR conjunctivitis

Triage

- Unvaccinated or partially vaccinated with MMR
- · Recent travel to area where measles is circulating
- · Contact with confirmed or suspected case of measles

If an in-person review is needed, reception staff should be alerted. The person should be directed straight to a consultation room on arrival

Assessment Focus:

Severe disease (Oxygen sats/PEWS/NEWS2/GCS)
Risk factors – immunocompromised, <12 mths, pregnancy
(ask re patient and household contacts)

Think Measles

Prodrome 2-4 days fever, coryza, cough, conjunctivitis Rash spreads from face to rest of body Differential Diagnosis: Other viral exanthems Group A Streptococcus Kawasaki Disease Complications: Pneumonia, Otitis media Diarrhoea Rare – encephalitis Secondary bacterial infections

Discharge Home

Exclude from nursery, educational setting, or work until full 4 days after onset of rash. Advice re red flags/when to seek medical attention. Details passed to HPT. Health professionals must inform local health protection teams of suspected cases. Urgently by telephone Find your local health protection team in England - GOV.UK (www.gov.uk) to facilitate prompt risk assessment and public

health action for vulnerable contacts

Referral to secondary care:

When referring a suspected measles case to A&E/hospital, inform hospital staff beforehand so that the person can be appropriately signposted to mitigate against onward transmission Inform local HPT of the suspected case Find your local health protection team in England - GOV.UK (www.gov.uk) Urgently by telephone to facilitate prompt risk assessment and public health action for vulnerable contacts

HPT will follow up patient about oral Fluid sample for PCR/IgG & IgM https://www.qov.uk/qovernment/publications/measles-mumps-and-rubella-mmr-letter-for-parents-and-form-for-oral-fluid-swab

Make Every Contact Count

Check the immunisation history of every patient, especially for children, new registrations, new migrants, refugees, and asylum seekers: offer vaccination to prevent the spread in the community. For further information see National Measles Guidance and the National Infection Prevention & Control Manual

Prevention of transmission

- Following clinical triage, if a patient with suspected or confirmed measles is required/advised to attend a primary care setting in person, there should be separation in space and/or time between patients to avoid cross-over of potentially infectious and noninfectious patients. Consider appointment time at end of surgery if clinically appropriate.
- Ensure reception staff are aware to direct the patient (+ any parent/carer) straight to a designated separate well-ventilated consultation room on arrival.
- If referral on to secondary care is required, inform the receiving hospital department in advance if measles is suspected. Ambulance service should also be informed if transfer is arranged.



PPE for assessment and management of suspected or confirmed cases of measles

Airborne and droplet transmission - regardless of staff vaccination status:

- Single use disposable gloves
- Single use disposable apron
- Respiratory protective equipment (RPE) fit testing on FFP3 masks in use is a legal requirement
- Eye/face protection (goggles or visor)

Surgical face masks as source control:

If a patient has suspected or confirmed measles, then if suitable and tolerable the patient should be asked to wear a surgical face mask in communal areas (for example, during a transfer).

N.B. An FFP3 mask should never be worn by a patient.

Appendix 6: Putting on and Removing Personal Protective Equipment (PPE)

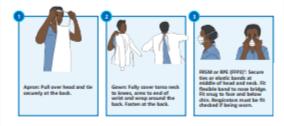


Before undertaking any procedure or task, staff should assess the risk of likely exposure to blood and/or other body fluids, non-intact skin, musous membranes, or any equipment or items in the care environment that could be contaminated, and wear PPE if required, PPE must protect adequately against the risks associated with the procedure or task. The items of PPE worn will vary based on the type of exposure anticipated, and not all items of PPE may be required.

Putting on Personal Protective Equipment (PPE)

Before beginning, check which items of PPE are required and that these are available in the correct size.

The order for putting on PPE is Apron or Gown, Fluid-Resistant Surgical Mask (FRSM)/ Respiratory Protection Equipment (RPE) (FFP3), Eye Protection, then Gloves.





Steps on removing PPE are continued on the next page.



Removing Personal Protective Equipment (PPE)

When removing PPE, the correct technique is essential to avoid touching the most contaminated areas of PPE e.g., the outside of gloves and front of aprons/gowns, eye protection. and RESMIRE.

The order for removing PPE is Gloves, Apron or Gown, Eye Protection, then FRSM/RPE (FFP3)*







Cleaning and decontamination

The care environment should be:

- visibly clean, free from non-essential items and equipment to facilitate effective cleaning;
- well-maintained, in a good state of repair and with adequate ventilation.

Rooms/areas must be cleaned from highest to lowest points and from least to most contaminated points.

Wear PPE and use dedicated cleaning materials for room and equipment.

Usual clinical waste (orange bag – infectious).

Following suspected/confirmed patient vacation of the care area, allow sufficient time for clearance of infectious particles (local risk assessment) before cleaning/decontaminating using either:

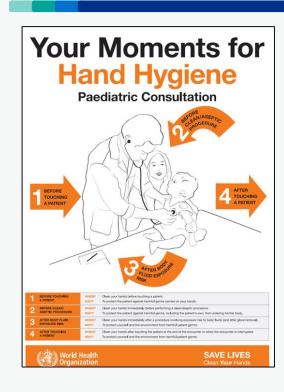
- a combined detergent/disinfectant solution at a dilution of 1,000 parts per million available chlorine (ppm available chlorine (av.cl.)); or
- a general-purpose neutral detergent in warm water followed by a solution of 1,000ppm av.cl).; or
- a locally approved detergent and disinfectant.

IPC contacts

London ICB IPC Leads

- NWL: Natalie Foley <u>natalie.foley3@nhs.net</u>
- NCL: Inam Ramsahye <u>inam.ramsahye@nhs.net</u>
- NEL: Sandra Smith <u>Sandra.smith114@nhs.net</u>
- SEL: Lizzie Wallman lizzie.Wallman@selondonics.nhs.uk
- SWL: Debbie Calver <u>Debbie.Calver@swlondon.nhs.uk</u>

NHSE London Public Health IPC Team england.phipc@nhs.net





Thank You



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