

Hospital Infection Management Guidelines Empirical Antibiotic Therapy in Adults

STOP AND THINK BEFORE ANTIBIOTIC THERAPY: 1 in 5 antimicrobial courses associated with adverse events including *C. difficile*, drug interactions/ toxicity, device related infections and *S. aureus* bacteraemia. **THINK SEPSIS** if NEWS ≥ 5 . Send samples to microbiology before starting antibiotics. **RECORD** antimicrobial indication and duration on HEPMA REVIEW patient and results. **RECORD clinical response and prescription daily.** **Can you SIMPLIFY, SWITCH or STOP?** If Clinical improvement + eating/drinking + deep seated/complex infection not suspected then **IVOST** (See [IVOST Guidelines](#)) and **RECORD** duration of remaining oral therapy. **RECORD the STOP date for oral antimicrobial on HEPMA**

REVIEW all IV antimicrobial and prescription DAILY and RECORD duration /review date. INFORM patient of reason for antimicrobial and likely duration.

NB Doses recommended based on normal renal/liver function - see BNF or Renal handbook for dosing advice. For info on antimicrobial contra-indications, cautions and monitoring see BNF.

Definition of SEPSIS: INFECTION (includes Systemic Inflammatory Response Syndrome (SIRS*)) **WITH** evidence of ORGAN HYPOPERFUSION (≥ 2 of: Confusion, < 15 GCS or Resp Rate ≥ 22 / min or Systolic BP ≤ 100 mm Hg).

Ensure SEPSIS 6 within one hour: 1. Blood cultures (& any other relevant samples), 2. IV Antibiotic administration, 3. Oxygen to maintain target saturation, 4. Measure lactate, 5. IV fluids, 6. Monitor urine output hourly.

*SIRS indicated by Temp $> 36^{\circ}\text{C}$ or $> 38^{\circ}\text{C}$, HR > 90 bpm, RR > 20 / min & WCC < 4 or $> 12 \times 10^9$ / L. SIRS is not specific to bacterial infection (also viral & non-infective causes).

<h3>Lower Respiratory Tract Infections</h3>	<h3>Skin/ Soft Tissue Infections</h3>	<h3>Gastrointestinal Infections</h3>	<h3>Urinary Tract Infections</h3>	<h3>Bone/ Joint Infections</h3>	<h3>CNS Infections</h3>	<h3>Severe Systemic Infection Source Unknown</h3>	<h3>Immunocompromised Patient</h3>																
<h4>Infective Exacerbation COPD</h4> <p>Antibiotics only if purulent sputum (send for culture along with viral gargle) Dual antibiotic therapy not recommended & increases risk of harm Oral * Doxycycline 200mg as a one-off single dose then 100mg daily or Oral Amoxicillin 500mg 8 hrly or Oral * Clarithromycin 500mg 12 hrly Duration 5 days</p>	<h4>Mild skin/soft tissue infection</h4> <p>Oral Flucloxacillin 1g 6 hrly or if true penicillin/beta-lactam allergy Oral * Co-trimoxazole 960mg 12 hrly or Oral * Doxycycline 100mg 12 hrly Duration 5 days</p>	<h4>Gastroenteritis</h4> <p>Confirm travel history/other risk factors Antibiotics not usually required and may be deleterious in <i>E.coli</i> O157 Consider viral causes</p>	<h4>UTI in Pregnancy</h4> <p>See NHS GGC Obstetric guidance</p>	<h4>Septic arthritis/Osteomyelitis / Prosthetic joint infection</h4> <p>Urgent orthopaedic referral if underlying metal work or recent surgery. Obtain blood cultures (and if not acutely unwell/ septic, obtain synovial/ other deep samples) prior to antibiotic therapy</p>	<h4>Urgent Blood Cultures then IV Antimicrobial Therapy within ONE hour</h4>	<h4>Sepsis where source unknown</h4> <p>Review all anatomical systems, perform CXR and consider other imaging/ laboratory investigations Review previous microbiology results and discuss with an infection specialist if previous gentamicin resistance Review diagnosis DAILY Add cover for <i>Saureus</i> infection if; healthcare associated, recent hospitalisation, post-op wound/ line related, PWID Add cover for MRSA infection if; recent MRSA carrier or previous infection Add cover for <i>Streptococcal</i> infection if; pharyngitis/erythroderma/hypotension</p>	<h4>Immunocompromised Patient</h4> <p>Recent Chemotherapy (< 3 weeks), high dose steroids (e.g. prednisolone $> 15\text{mg/day}$ for > 2 weeks), other immunosuppressants (e.g. anti-TNF, cyclophosphamide), Stem cell/solid organ transplant or primary immunodeficiency</p>																
<h4>Suspected Viral Respiratory Tract Infection</h4> <p>Antibiotics NOT required unless secondary bacterial infections e.g. COPD exacerbation with purulent sputum (see above) If consolidation treat as per CAP below COVID-19 guidelines Flu guidelines</p>	<h4>Moderate / Severe Cellulitis</h4> <p>Consider OPAT/ ambulatory care (consult local management pathway). If requires inpatient management: IV Flucloxacillin 2g 6 hrly If MRSA suspected or if true penicillin/ beta-lactam allergy IV Vancomycin** If rapidly progressive Add IV Clindamycin 600mg 6 hrly Consider CDI risk Duration 7-10 days (IV/oral)</p>	<h4>C. difficile infection (CDI)</h4> <p>See CDI guidelines Treat before lab confirmation if high clinical suspicion. Discontinue if toxin negative</p>	<h4>Lower UTI/cystitis</h4> <p>Don't treat asymptomatic bacteriuria. Obtain urine culture prior to antibiotic. In women often self-limiting, consider delayed prescribing. Antibiotics if significant symptoms Oral Nitrofurantoin 50mg 6 hourly or Nitrofurantoin 100mg MR 12 hourly or Oral * Trimethoprim 200mg 12 hrly Duration: Females 3 days, Males 7 days If eGFR $< 30 \text{ mL/min/1.73 m}^2$ Nitrofurantoin contraindicated, Trimethoprim use with caution</p>	<h4>Native joint</h4> <p>IV Flucloxacillin 2g 6 hrly If MRSA suspected or if true penicillin/beta-lactam allergy IV Vancomycin** If considered high risk for Gram negative infection e.g. immunocompromised, recurrent UTI or sickle cell disease: ADD IV Gentamicin**Δ (max 4 days) Duration and IVOST: discuss with Infection Specialist at 72 hours. Usually 4-6 weeks (IV/oral) if diagnosis confirmed. Prosthetic joint Antibiotic therapy should not be started in a clinically stable patient until intra-operative samples obtained IV Vancomycin** + IV Gentamicin**Δ (max 4 days) Duration and IVOST: discuss with Infection Specialist at 72 hours</p>	<h4>LP safe without CT scan UNLESS:</h4> <p>seizures, GCS ≤ 12, CNS signs, papilloedema or immunosuppression. If CT: Blood cultures and antibiotics BEFORE CT scan. Use Meningitis/ Encephalitis order set on Trakcare, Blood and CSF Glucose. LP contraindicated if: Brain shift, rapid GCS reduction, Resp/ cardiac compromise, severe sepsis, rapidly evolving rash, infection at LP site, coagulopathy, thrombocytopenia, anticoagulant drugs</p>	<h4>Source unknown</h4> <p>IV Amoxicillin 1g 8 hrly + IV Gentamicin**Δ (max 4 days) If <i>Saureus</i> suspected ADD IV Flucloxacillin 2g 6 hrly If MRSA suspected or if true penicillin/ beta-lactam allergy IV Vancomycin** + IV Gentamicin**Δ (max 4 days) If severe <i>Streptococcal</i> infection suspected ADD IV Clindamycin 600mg 6 hrly If eGFR $< 20 \text{ mL/min/1.73 m}^2$, REPLACE Gentamicin with Oral/IV **Ciprofloxacin</p>	<h4>Neutropenic Sepsis</h4> <p>Neutrophils $\leq 0.5 \times 10^9$/ L + fever (temperature $> 38^{\circ}\text{C}$ or 37.5°C on 2 occasions 30 min apart) / hypothermia $< 36^{\circ}\text{C}$ OR chills, shivers, sweats or other symptoms suggestive of infection. All patients who have received recent chemotherapy and who exhibit any of the symptoms above are presumed to be neutropenic and septic.</p>																
<h4>Uncertain if LRTI/ UTI</h4> <p>Send MSSU, sputum and viral gargle Oral * Co-trimoxazole 960mg 12 hrly or Oral * Doxycycline 100mg 12 hrly Do NOT prescribe Co-amoxiclav Review/ clarify diagnosis at 48 hours Duration if diagnosis remains uncertain MAXIMUM 5 days</p>	<h4>Intra-abdominal sepsis</h4> <p>IV Amoxicillin 1g 8 hrly + Oral/ IV Metronidazole 400mg / 500mg 8 hrly + IV Gentamicin**Δ (max 4 days) If eGFR $< 20 \text{ mL/min/1.73 m}^2$ IV Piperacillin/Tazobactam 4.5g 12 hourly (Monotherapy) If true penicillin/beta-lactam allergy IV Vancomycin ** + Oral/ IV Metronidazole 400/ 500mg 8 hrly + IV Gentamicin**Δ (max 4 days) If eGFR $< 20 \text{ mL/min/1.73 m}^2$ ** IV/Oral Ciprofloxacin + Oral/ IV Metronidazole 400/ 500mg 8 hrly Assuming source control See Advice for Antibiotic therapy following 4 days IV gentamicin</p>	<h4>Upper UTI</h4> <p>Obtain urine for culture prior to antibiotic. Exclude pneumonia if loin/back pain Oral * Ciprofloxacin 500mg 12 hrly Or Oral * Co-trimoxazole 960 mg 12 hrly if trimethoprim sensitive organism. Duration 7 days Trimethoprim see above re eGFR</p>	<h4>Non-severe/without sepsis</h4> <p>Oral * Ciprofloxacin 500mg 12 hrly Or Oral * Co-trimoxazole 960 mg 12 hrly if trimethoprim sensitive organism. Duration 7 days</p>	<h4>Diabetic foot infection/ osteomyelitis</h4> <p>Assess ulcer size, probes to bone, neuropathy, peripheral vascular disease, MRSA risk. For outpatient therapy consult diabetic clinic guidelines IV Flucloxacillin 2g 6 hrly + Oral Metronidazole 400mg 8 hrly If SEPSIS or SIRS ≥ 2 Add IV Gentamicin**Δ (max 4 days) If MRSA suspected or if true penicillin/beta-lactam allergy IV Vancomycin** + Oral Metronidazole 400mg 8hrly (Metronidazole oral bioavailability 80-100%) If SEPSIS or SIRS ≥ 2: Add IV Gentamicin**Δ (max 4 days) If eGFR $< 20 \text{ mL/min/1.73 m}^2$ REPLACE Gentamicin with Oral **Ciprofloxacin Duration/IVOST Discuss with Infection Specialist</p>	<h4>Possible bacterial meningitis</h4> <p>IV Ceftriaxone 2g 12 hrly or if previous penicillin anaphylaxis IV Chloramphenicol 25mg/kg (max 2g) 6 hrly If bacterial meningitis strongly suspected: ADD IV Dexamethasone 10mg 6 hrly (for 4 days) Prior to, or at the same time as antibiotics and refer to ID If age ≥ 60 years, immunosuppressed, pregnant, alcohol excess, liver disease or if listeria meningitis suspected: ADD IV Amoxicillin 2g 4 hrly to Ceftriaxone Duration of antibiotics: Discuss with Infection Specialist</p>	<h4>Possible viral meningitis</h4> <p>Usually diagnosed after empirical management and exclusion of bacterial meningitis. Viral meningitis does NOT require antiviral prescription unless immunocompromised. Discuss with Infection Specialist. Confusion or reduced consciousness = Encephalitis NOT meningitis Possible viral encephalitis Consider if confusion or reduced level consciousness in suspected CNS infection. Ensure CSF viral PCR is requested. May not be possible to differentiate from bacterial meningitis-encephalitis. IV Aciclovir 10mg/kg 8 hrly See BNF for dosing in renal impairment. Discuss all patients with infection specialist. May require repeat LP or neuro-imaging to establish diagnosis. Duration: Confirm with infection specialist</p>	<h4>Immunocompromised with fever BUT normal neutrophils AND source of infection identified</h4> <p>Manage as per infection management guidelines based on anatomical source. Neutropenic sepsis or Immunocompromised with fever and source of infection unknown; (See guideline Initial Management of Neutropenic Sepsis or Sepsis of Unknown Source in Immunocompromised Adults) NEWS ≤ 6 Standard Risk IV Piperacillin/Tazobactam 4.5g 6 hourly If MRSA colonised/ line infection or sign of skin and soft tissue infection ADD IV Vancomycin** Or if true penicillin/ beta-lactam allergy IV Gentamicin**Δ (max 4 days) + IV Vancomycin**</p>																
<h3>Pneumonia</h3> <h4>Community Acquired Pneumonia (CAP)</h4> <p>Assess for SEPSIS Calculate CURB 65 score: <ul style="list-style-type: none"> Confusion (new onset) Urea $> 7 \text{ mmol/L}$ RR ≥ 30 breaths/ min BP – diastolic $\leq 60 \text{ mmHg}$ or systolic $< 90 \text{ mmHg}$ Age ≥ 65 years If patient admitted from a care home treat as CAP. If severe, ensure atypical screen sent. Non-severe CAP CURB65 score: ≤ 2 (and no sepsis) Oral Amoxicillin 500mg 8 hrly or Oral * Doxycycline 200mg as a one-off single dose then 100mg daily or Oral * Clarithromycin 500mg 12 hrly Duration 5 days Severe CAP CURB 65 score ≥ 3 or CAP (with any CURB 65 score) PLUS sepsis : Oral * Clarithromycin 500mg 12 hrly PLUS either: IV Amoxicillin 1g 8 hrly or if requiring HDU/ ICU level care IV Co-amoxiclav 1.2g 8 hrly If true penicillin/beta-lactam allergy or Legionella strongly suspected Oral ** Levofloxacin Monotherapy 500mg 12 hrly (NB oral bioavailability 99 – 100%) Duration 5 days (IV/oral) Legionella 10-14 days</p>	<h4>Suspected Necrotising Fasciitis</h4> <p>Consider in SSTI with disproportionate pain or presence of acute organ dysfunction/ hypoperfusion including hypotension. Seek urgent surgical/ orthopaedic review. Urgent DEBRIDEMENT/ EXPLORATION may be required IV Flucloxacillin 2g 6 hrly + IV Benzylpenicillin 2.4g 6 hrly + IV Metronidazole 500mg 8 hrly + IV Clindamycin 1.2g 6 hrly + IV Gentamicin**Δ (max 4 days) If MRSA suspected or if true penicillin/ beta-lactam allergy REPLACE Flucloxacillin + Benzylpenicillin with IV Vancomycin** Rationalise therapy within 48-72 hours Based on: response, microbiology results infection specialist review Duration 10 days (IV/oral) or as per infection specialist</p>	<h4>Biliary tract infection</h4> <p>As above except metronidazole not routinely required unless severe Pancreatitis Does not require antibiotic therapy unless complicated by cholangitis.</p>	<h4>Catheter related UTI</h4> <p>Remove/ replace catheter and send urine for culture. Don't treat asymptomatic bacteriuria Symptomatic bacteriuria without sepsis Give single dose of IV Gentamicin**Δ immediately prior to catheter removal or if IV route not available give single dose of oral **Ciprofloxacin 500mg 30 minutes before catheter change. If eGFR $< 20 \text{ mL/min/1.73 m}^2$ ** Ciprofloxacin 500mg single dose Symptomatic bacteriuria with sepsis Treat as per pyelonephritis/ culture results. Duration 7 days (IV/oral)</p>	<h4>Vascular graft infection</h4> <p>IV Flucloxacillin 2g 6hrly + IV Gentamicin**Δ (max 4 days) If MRSA suspected or if true penicillin/ beta-lactam allergy IV Vancomycin** + IV Gentamicin**Δ (max 4 days) Discuss duration/IVOST/ further management with Infection specialist</p>	<h4>Possible infective Endocarditis</h4> <p>Always seek senior specialist advice and refer to cardiology. Native heart valve IV Amoxicillin 2g 4 hrly + IV Flucloxacillin 2g 6 hrly if $< 85\text{kg}$ (4 hrly if $\geq 85\text{kg}$) + IV Gentamicin Δ (synergistic dosing) If MRSA/ resistant organisms suspected or if true penicillin/beta-lactam allergy IV Vancomycin** + IV Gentamicin Δ (synergistic dosing) Prosthetic heart valve IV Vancomycin** + IV Gentamicin Δ (synergistic dosing) Discuss with Infection Specialist within 72 hours *See Synergistic Gentamicin for Endocarditis in Adults guideline on StaffNet for dosing</p>	<h4>Immunocompromised with fever AND source of infection identified</h4> <p>Manage as per infection management guidelines based on anatomical source. Neutropenic sepsis or Immunocompromised with fever and source of infection unknown; (See guideline Initial Management of Neutropenic Sepsis or Sepsis of Unknown Source in Immunocompromised Adults) NEWS ≤ 6 Standard Risk IV Piperacillin/Tazobactam 4.5g 6 hourly If MRSA colonised/ line infection or sign of skin and soft tissue infection ADD IV Vancomycin** Or if true penicillin/ beta-lactam allergy IV Gentamicin**Δ (max 4 days) + IV Vancomycin**</p>	<h4>Immunocompromised with fever AND source of infection unknown;</h4> <p>(See guideline Initial Management of Neutropenic Sepsis or Sepsis of Unknown Source in Immunocompromised Adults) NEWS ≥ 7 High Risk IV Piperacillin/Tazobactam 4.5g 6 hourly + IV Flucloxacillin 2g 6 hrly if $< 85\text{kg}$ (4 hrly if $\geq 85\text{kg}$) If MRSA colonised/ line infection or sign of skin and soft tissue infection ADD IV Vancomycin** Or if true penicillin/ beta-lactam allergy IV Gentamicin**Δ (max 4 days) + IV Vancomycin** + IV **Ciprofloxacin 400mg 8 hourly</p>																
<h4>Aspiration pneumonia</h4> <p>This is a chemical injury and does not indicate antibiotic treatment. Reserve antibiotics for those who fail to improve within 48 hrs post aspiration. IV Amoxicillin 1g 8 hrly or if true penicillin/beta-lactam allergy IV * Clarithromycin 500mg 12 hrly + IV Metronidazole 500mg 8 hrly Duration 5 days (IV/oral)</p>	<h4>Infected human/animal bite</h4> <p>Non-severe bite Oral Co-amoxiclav 625mg 8 hrly or if true penicillin/beta-lactam allergy Oral * Doxycycline 100mg 12 hrly + Oral Metronidazole 400mg 8 hrly Duration- Treatment: 5 days Prophylaxis: 3 days See Adult Antibiotic Wound Management for the Emergency Department for prophylaxis indications Severe bite Consider surgical review. IV Co-amoxiclav 1.2g 8 hrly or if true penicillin/beta-lactam allergy IV Vancomycin** + Oral Metronidazole 400mg 8 hrly + Oral * Ciprofloxacin 500mg 12 hrly Duration 7 days (IV/oral)</p>	<h4>Spontaneous Bacterial Peritonitis (SBP)</h4> <p>Ascites PLUS ascitic WCC $> 500/\text{mm}^3$ or ascitic neutrophils $> 250/\text{mm}^3$ BSG - BASL Decompensated Cirrhosis Care Bundle - First 24 Hours - The British Society of Gastroenterology > If not receiving co-trimoxazole prophylaxis: Oral * Co-trimoxazole 960mg 12 hourly If receiving co-trimoxazole prophylaxis: IV Piperacillin/Tazobactam 4.5g 8 hourly or if true penicillin/beta-lactam allergy Oral ****Levofloxacin 500mg 12 hrly Duration 7 days (IV/oral)</p>	<h4>Suspected prostatitis</h4> <p>Consider in all men with lower UTI symptoms Refer to Urology Oral **Ciprofloxacin 500mg 12 hrly or Oral * Trimethoprim 200mg 12 hrly if sensitive organism. Duration 14 days</p>	<h4>Decompensated Chronic liver Disease with Sepsis Unknown Source</h4> <p>IV Piperacillin/Tazobactam 4.5g 8 hourly or if true penicillin/beta-lactam allergy Oral ****Levofloxacin 500mg 12 hrly Duration 7 days (IV/oral)</p>	<h4>Decompensated Chronic liver Disease with Sepsis Unknown Source</h4> <p>IV Piperacillin/Tazobactam 4.5g 8 hourly or if true penicillin/beta-lactam allergy Oral ****Levofloxacin 500mg 12 hrly Duration 7 days (IV/oral)</p>	<h4>Decompensated Chronic liver Disease with Sepsis Unknown Source</h4> <p>IV Piperacillin/Tazobactam 4.5g 8 hourly or if true penicillin/beta-lactam allergy Oral ****Levofloxacin 500mg 12 hrly Duration 7 days (IV/oral)</p>	<h4>Decompensated Chronic liver Disease with Sepsis Unknown Source</h4> <p>IV Piperacillin/Tazobactam 4.5g 8 hourly or if true penicillin/beta-lactam allergy Oral ****Levofloxacin 500mg 12 hrly Duration 7 days (IV/oral)</p>																
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<p>**Gentamicin/ **Vancomycin Gentamicin / Vancomycin adult dosing calculators are available via 'Clinical Info' icon on staff intranet/ GGC Medicines App. See GGC Therapeutics Handbook for Prescribing advice. Use GGC Prescribing, Administration, Monitoring charts. Vancomycin if creatinine not available give Vancomycin loading dose as per actual body weight Gentamicin Δ. Avoid Gentamicin in decompensated liver disease or myasthenia gravis, or known family history of aminoglycoside auditory toxicity or maternal relative with deafness due to mitochondrial mutation m.1555A>G</p>	<p>If creatinine not available give gentamicin as follows:</p> <table border="1"> <thead> <tr> <th>Actual Body Weight</th> <th>Gentamicin Dose</th> <th>Actual Body Weight</th> <th>Gentamicin Dose</th> </tr> </thead> <tbody> <tr> <td>$< 40 \text{ kg}$</td> <td>5 mg/kg</td> <td>60 - 69 kg</td> <td>320 mg</td> </tr> <tr> <td>40 - 49 kg</td> <td>240 mg</td> <td>70 - 79 kg</td> <td>360 mg</td> </tr> <tr> <td>50 - 59 kg</td> <td>280 mg</td> <td>$\geq 80 \text{ kg}$</td> <td>400 mg</td> </tr> </tbody> </table> <p>NB If CKD5 give 2.5 mg/kg (max 180 mg)</p>	Actual Body Weight	Gentamicin Dose	Actual Body Weight	Gentamicin Dose	$< 40 \text{ kg}$	5 mg/kg	60 - 69 kg	320 mg	40 - 49 kg	240 mg	70 - 79 kg	360 mg	50 - 59 kg	280 mg	$\geq 80 \text{ kg}$	400 mg	<p>INFECTION SPECIALISTS: Duty Microbiologist, Infectious Disease (ID) Unit at QUEUH. FOR FURTHER ADVICE: Clinical/Antimicrobial Pharmacist, local Respiratory Unit (for RTI) or from GGC Therapeutic Handbook. Infection Control advice may be given by Duty Microbiologist</p>	<p>!! Important Antibiotic Drug Interactions & Safety Information !!</p> <ul style="list-style-type: none"> Doxycycline/ Quinolone: reduced absorption with iron, calcium, magnesium & some nutritional supplements. See BNF (Appendix1) or see pharmacy for advice. Clarithromycin/ Quinolone: risk of serious drug interactions see BNF (appendix 1) or seek pharmacy advice. May also prolong the QTc interval, avoid (where possible) if other QTc risk factors. If oral route compromised give IV (see BNF for dose). Quinolones e.g. Ciprofloxacin, Levofloxacin Stop treatment at first signs of a serious adverse reaction (e.g. tendonitis), prescribe with caution for people over 60 years and avoid co administration with a corticosteroid. See BNF for dosing advice in reduced renal function. Trimethoprim / Co-trimoxazole: Use with caution, may increase K+ and decrease renal function. Monitor U+Es. If oral route compromised, co-trimoxazole can be given IV (see BNF for dose). 	<p>Latest Version: https://richtdecisions.scot.nhs.uk/ggc-clinical-guideline-platform/adult-infection-management/secondary-care-treatment/infection-management-empirical-antibiotic-therapy-in-adults-165/</p>	<p>NHS GGC AUC Aug 2023. Review Aug 2026</p>	<p>Latest Version: https://richtdecisions.scot.nhs.uk/ggc-clinical-guideline-platform/adult-infection-management/secondary-care-treatment/infection-management-empirical-antibiotic-therapy-in-adults-165/</p>	<p>NHS GGC AUC Aug 2023. Review Aug 2026</p>
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