

Sheffield Children's
NHS Foundation Trust

Infection Prevention in CYP with Immune mediated Glomerular disease

Grace Ehidiamhen

Consultant Paediatrician with Special Interest in Nephrology

Sheffield Children's hospital

CARE Values

Sheffield Children's
NHS Foundation Trust

Outline

Why

Who

What

CARE Values

Sheffield Children's
NHS Foundation Trust

Why is infection prevention important

- Underlying disease and immunosuppression treatment increase infection risk
- Infections cause significant morbidity and hospitalisation
- Prevention is a core component of care

CARE Values

Sheffield Children's
NHS Foundation Trust

Who / When is it indicated

- High-dose corticosteroids - 3 mths
- Cyclophosphamide, MMF, calcineurin inhibitors – 6 mths
- Biological and combination therapy - 12mths
- Nephrotic syndrome with urinary Ig loss
- Patients with CKD

CARE Values



Sheffield Children's
NHS Foundation Trust

What are the main recommendations

1. **Vaccination principles**

- Review vaccine status at diagnosis
- Give inactivated vaccines as recommended
- Avoid most live vaccines during significant immunosuppression
- Vaccinate household contacts

CARE Values

Sheffield Children's
NHS Foundation Trust

Common Live vaccines

- MMR (Measles, Mumps, Rubella)
- Varicella (Chickenpox)
- Live attenuated influenza vaccine (LAIV, nasal flu vaccine)
- Rotavirus
- BCG
- Oral typhoid vaccine
- Yellow fever
- Oral polio vaccine (not used in the UK)
- Live zoster vaccine (Zostavax)

Creating healthier futures

- **Key vaccines:**

  Annual influenza

  COVID-19 vaccination

  Pneumococcal vaccination

  Varicella assessment and vaccination before immunosuppression when appropriate

Sheffield Children's
NHS Foundation Trust

2. Screening before immunosuppression

TB risk assessment/testing

Hepatitis B and C

HIV testing

Varicella immunity assessment

CARE Values

Sheffield Children's
NHS Foundation Trust

3. Antimicrobial prophylaxis

Consider PJP prophylaxis with co-trimoxazole in high-risk patients

Exposure management for varicella

Individualize according to treatment intensity

CARE Values

Sheffield Children's
NHS Foundation Trust

4. Reducing exposure

- Hand hygiene
- Food safety and dental health
- Prompt assessment of fever
- Education for families and schools

CARE Values



Sheffield Children's
NHS Foundation Trust

5. Monitoring and early recognition

- Monitor FBC and immunoglobulins when indicated
- Watch for opportunistic infections
- Urgent review for fever or significant exposure
- Multidisciplinary follow-up

CARE Values

Summary

Sheffield Children's NHS Foundation Trust

- Vaccinate early
- Screen before immunosuppression
- Use prophylaxis in selected patients
- Educate families and recognise infection early

CARE Values

References

KDIGO 2021 Clinical Practice Guideline for the Management of Glomerular Diseases. Kidney International 2021.

UKHSA. Immunisation against infectious disease (The Green Book), Chapter 7: Immunisation of immunocompromised individuals.

UK Paediatric Immune-Mediated Glomerular Disease Guideline (2025 review).