National Neonatal Network Guideline: Blood Borne Virus during pregnancy

Management of babies born to mothers with Hepatitis C

Document Control Sheet

Title	Management of babies born to mothers with Hepatitis C
Lead Author(s)	Dr Roy McDougall, Neonatology, NHS Lothian
Date Published/Issued	15.05.2024
Date Effective From	15.05.2024
Version/Issue Number	1.2
Document Type	Guideline
Document Status	Final
Owner	National Neonatal Network (NNN)
Approver	NNN Guideline Oversight Group
Approval Date	15.05.2024
Contact	nss.perinatalnetwork@nhs.scot
File Location	K:\09 PCF\NSD\Strategic Networks\Perinatal\Workstreams\Neo Gdlns_Drg Monos\SLWG BBV

Revision History:

Version	Date	Summary of Changes	Name	Changes Marked
1.0	15.05.2024	None - original version	Dr Roy McDougall	
1.1	26.11.2024	Amended version	Dr Roy McDougall	7. Summary: Vaccines schedule
1.2	20.03.2025	Amended version	Dr Sarah Sparrow	3. Perinatal Considerations 6. Immunisations 7. References

Disclaimer

The recommendations in this guideline represent the view of the National Neonatal Network Guideline Development Group, arrived at after careful consideration of the evidence available. When exercising their clinical judgement, healthcare professionals are expected to take this guidance fully into account, alongside the individual needs, preferences and values of their patients or the people using their service. It is not mandatory to follow the guideline recommendations and it remains the responsibility of the healthcare professional to make decisions appropriate to the circumstances of the individual, in consultation with them and their families and carers or guardian.

Contents

1. Introduction 4
2. Antenatal 4
3. Perinatal considerations 4
4. Breastfeeding 5
5. Communication & Follow up 5
6. Immunisations 5
7. Summary 6
8. Contributors 6

1. Introduction

This guideline has been produced to ensure that all babies born to mothers with Hepatitis C across Scotland are managed and followed up appropriately.

1.1 Purpose

This guideline is aimed at all clinical staff in Scotland who are responsible for the care and management of babies born to mothers with Hepatitis C (HCV).

1.2 Background

HCV is recognized as a worldwide public health problem, the global prevalence of chronic HCV infection is estimated to be approaching 3%, with over 170million infected people. Prevalence of HCV in Scotland varies from 0.4 - 0.8%.

HCV is a blood-borne virus discovered that predominantly affects the cells of the liver. This can result in inflammation and significant damage to the liver. It can also affect a number of other areas of the body including the digestive system, the lymphatic system, the immune system and the brain.

Vertical transmission has been reported in 4-8% of pregnancies, but can be as high as 25% if the mother has other co-infections such as HIV.

2. Antenatal

Based on the last UK NSC review, universal screening for Hepatitis C in pregnancy is not currently recommended. However, HCV antibody testing is offered to pregnant women who self-identify or have been identified with risk factors. In the UK, most community hepatitis C infections occur in intravenous drug users. Identification of pregnant women considered to be at risk of Hepatitis C, and arrangements to offer screening to these women are dealt with in separate obstetric guidelines.

3. Perinatal considerations

If a pregnant woman is HCV antibody positive, it is important to determine the mother's HCV RNA status during pregnancy, as follow-up of her baby depends on this result.

Babies born to **HCV antibody positive with HCV RNA positive** mothers do require testing. Bloods are not required from the infant at birth. It is important to inform the mother of the need for follow-up. This should occur with a Specialist Infectious Diseases Paediatrician or Paediatrician with specialist interest as per locally agreed guidelines. Infants with RNA positive mothers will require (a) further blood test(s), but the schedule of this will be agreed locally by the team performing the follow up.

Pregnant women who are **HCV antibody positive but HCV RNA negative** do not pose a risk of transmission to their baby therefore there is no need to test the baby after birth and no follow up of the baby is required. Infants born to women who are HCV antibody positive will test positive for HCV antibody at birth.

4. Breastfeeding

Transmission of HCV via breast milk has not been documented and therefore breast feeding is not contraindicated.

5. Communication & Follow up

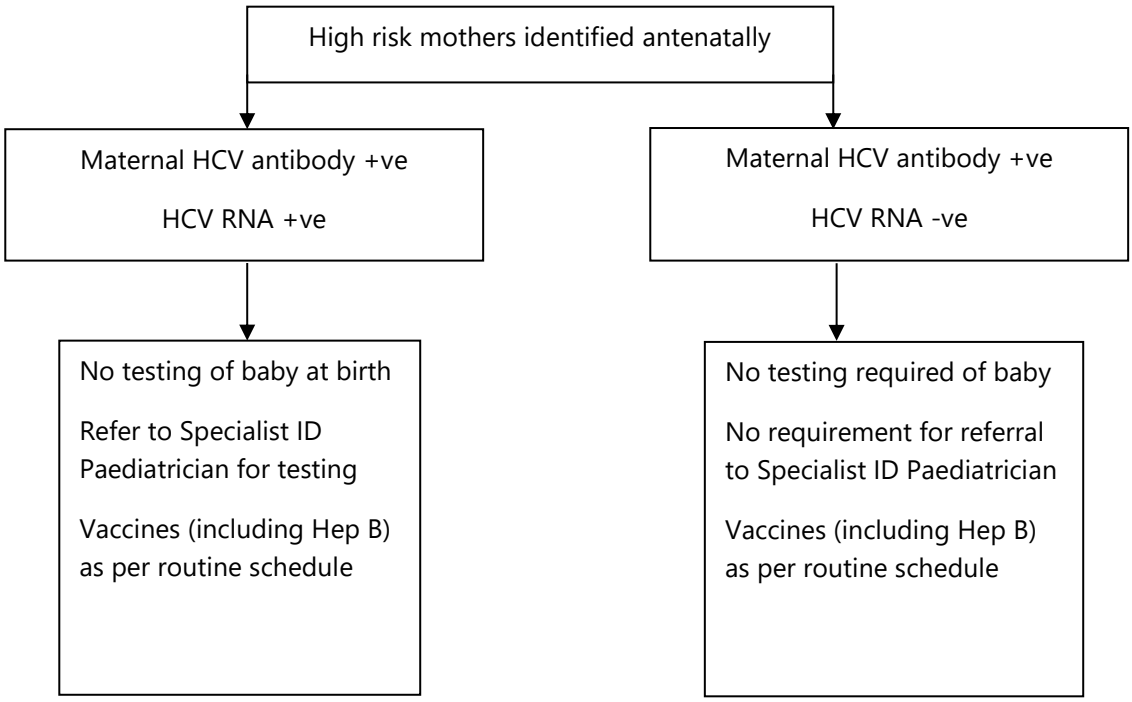
The parents / carers should be provided with an Information Sheet. In babies born to HCV RNA positive mothers, a referral letter must be sent to the Specialist Paediatrician with copies to the GP, Health Visitor and Public Health, in line with local policy. Information should also be entered on the TRAK postnatal discharge screen.

6. Immunisations

Unless there is concomitant Hepatitis B infection in the mother, infants should follow the routine schedule for vaccinations. For management of concomitant Hepatitis B infection, please see separate guideline.

If there are any uncertainties at any time during the management of an infant exposed to HCV in pregnancy, contact the on-call Neonatal Consultant or local Paediatric Infectious Disease Consultant as appropriate.

7. Summary



8. Contributors

8.1 Key contributor

Dr Roy McDougall, Neonatology, NHS Lothian

8.2 Short life working group

National Neonatal Network Blood Borne Virus SLWG

8.3 Stakeholder group

National Neonatal Network Guideline Oversight Group

9. References

Viral Hepatitis – Scottish Government Sexual Health and Blood Borne Virus Framework 2015-2020 Update.

Scottish Intercollegiate Guidelines Network- Management of hepatitis C – A national clinical guideline, 2006.

Jeanette Rios, Lauren Alpert, Sonia Mehra, Natalia Schmidt, Tatyana Kushner, Overview of Hepatitis C in Pregnancy: Screening, Management, and Treatment, *Journal of the Pediatric Infectious Diseases Society*, Volume 13, Issue Supplement_5, December 2024, Pages S171–S178