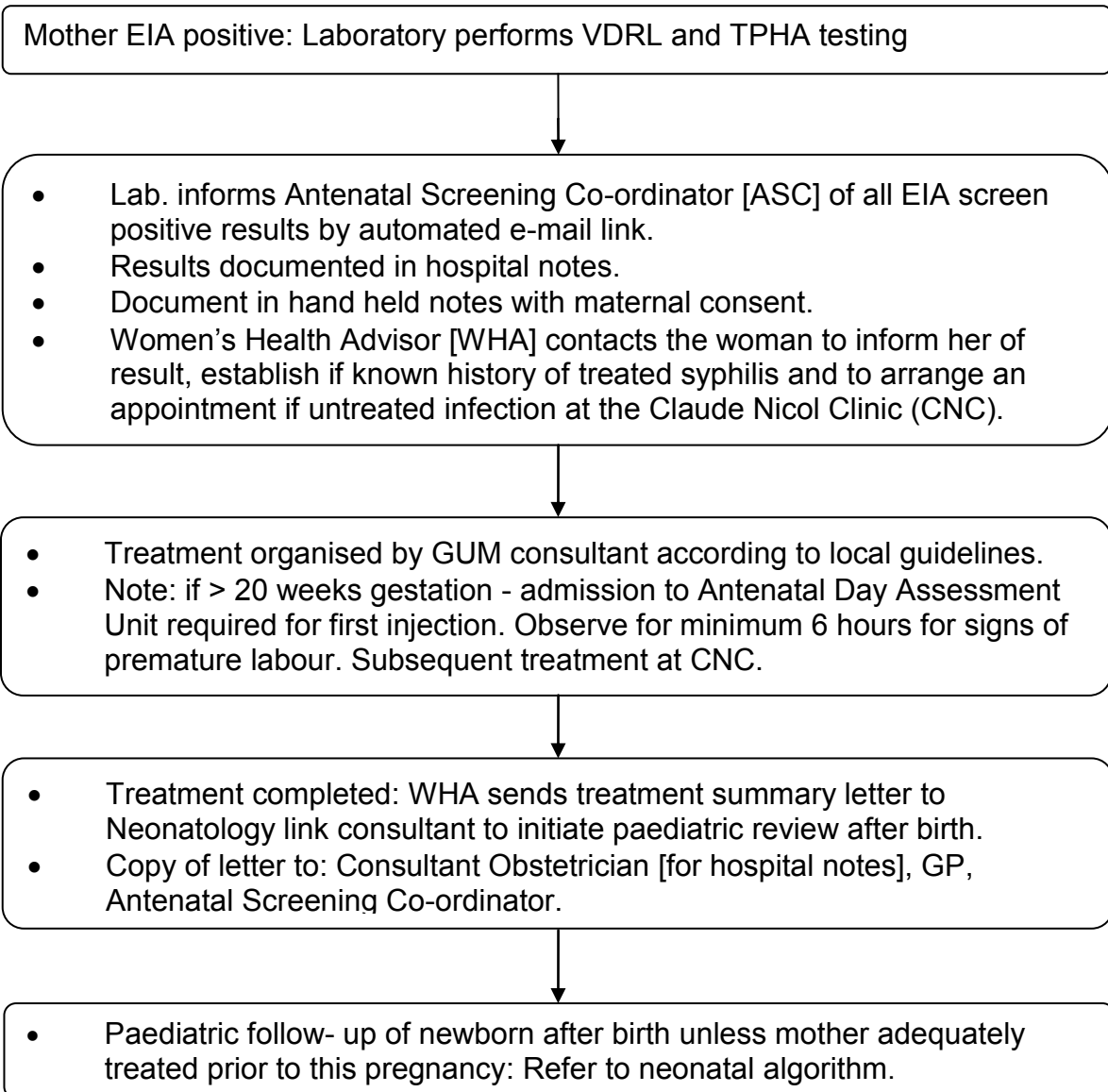


MANAGEMENT OF INFANTS BORN TO MOTHERS WITH POSITIVE SCREENING FOR SYPHILIS IN PREGNANCY

Antenatal Screening and Management of Identified cases



Contacts

Virology

- Dr Mohammed Hassan Ibrahim

Link Health Advisors

- Rosie Jennings, Claude Nicol Centre, Royal Sussex County Hospital,
- Ext 3867 or 4716; work mobile 07919627603

Link GUM Consultant

- Deborah Williams, Claude Nicol Centre, Royal Sussex County Hospital

Link Neonatal Consultant

- Rob Bomont, Trevor Mann Baby Unit, RSCH*

Antenatal Screening Co-ordinator

- Karen Creed

Postnatal Management of the Newborn

- Congenital syphilis is uncommon in the UK
- 70% of babies are asymptomatic at birth

Signs and Symptoms of Congenital Syphilis

Early:

- Skin rash (usually maculopapular, but almost any form of rash is possible); the palms and soles may be red, mottled and swollen. Vesicles or bullae may be present
- Condylomata lata (flat, wart like plaques in moist areas such as the perineum)
- Ulceration of nasal mucosa, rhinitis (snuffles – usually after 1st week of life)
- Jaundice, anaemia, generalised lymphadenopathy, hepatosplenomegaly, non-immune hydrops
- Chorioretinitis, meningitis (pathologic CSF 40%)
- Osteochondritis (90%), periostitis (elbows, knees, wrists), failure to move an extremity (pseudoparalysis of Parrot)
- Low birth weight and pyrexia

Late (usually after 2 years):

- Frontal bossing, saddle nose, small maxilla/protruberant mandible, high arched palate, Hutchinson's incisors, Mulberry molars
- Keratitis (40 %), deafness, neurological or gummatous involvement
- Clutton's joints

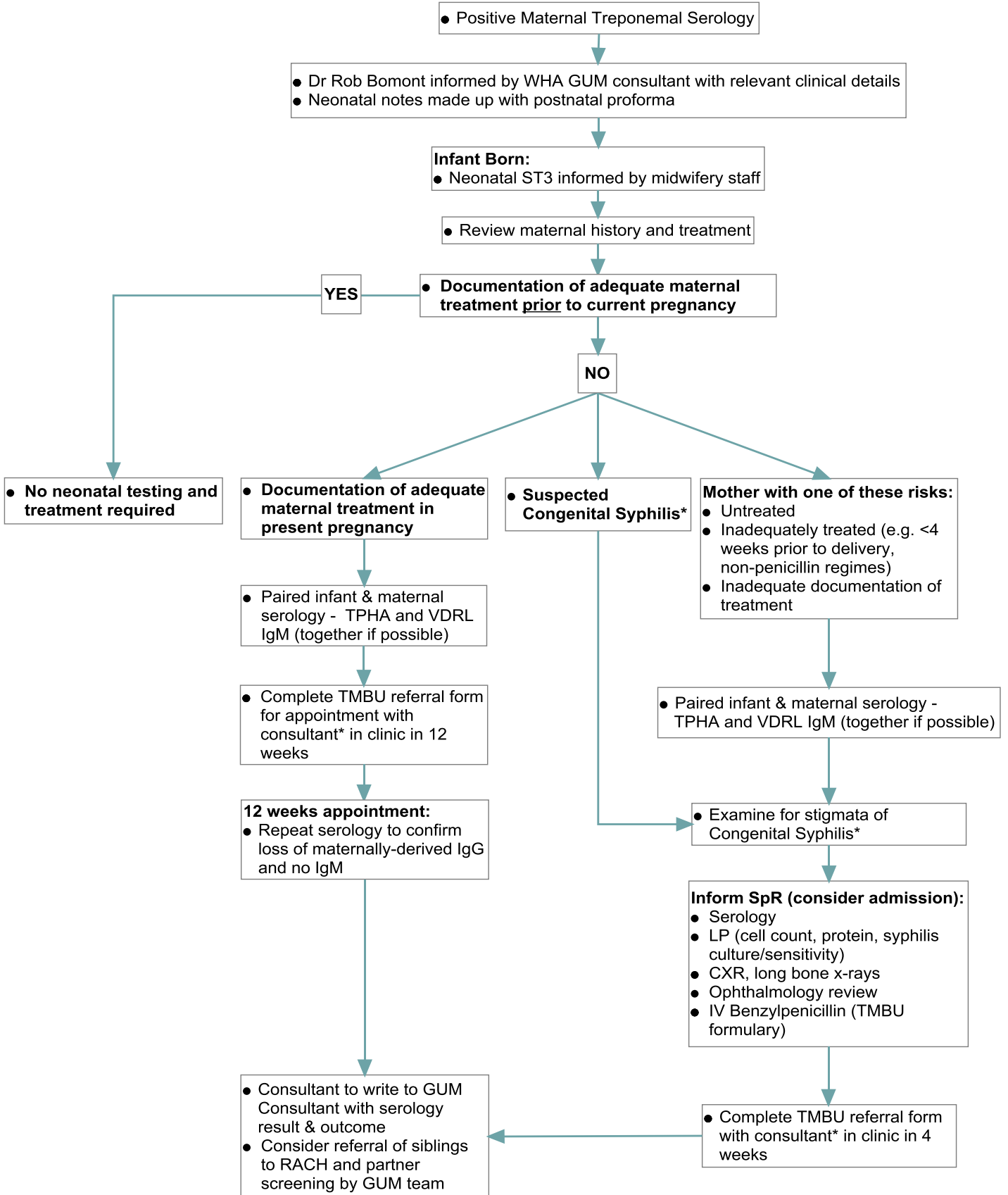
General Considerations for Diagnosis and Treatment

- **DO NOT SEND CORD BLOOD**
- Direct demonstration of *T. pallidum* by dark ground microscopy (done by GUM team, if required) and/or PCR (send away, if required) of exudates from suspicious lesions, or body fluids, e.g. nasal discharge.
- If the infant's serum is positive on screening (Treponemal EIA IgG), perform treponemal IgM EIA, quantitative VDRL/RPR and quantitative TPHA tests on the infant and mother in parallel. A positive IgM EIA test and/or a sustained fourfold or greater difference of VDRL/RPR titre or TPHA titre above that of the mother (confirmed on testing a second specimen from the infant) indicates a diagnosis of congenital infection and the need for treatment.
- If the IgM test is negative, the other tests are reactive with titres less than fourfold higher than those of the mother and there are no signs of congenital syphilis, then follow-up without treatment.
- If the infant's serum is negative on screening, and there are no signs of congenital infection, no further testing is necessary.
- Further investigations required: full blood count, liver function, electrolytes and CSF (cells, protein, serological tests).
- Newborns without or with inadequately documented treatment following identification of positive treponemal serology should be treated until full microbiological results are available.
- First-line treatment is Benzyl-Penicillin-Sodium (see TMBU formulary).

Follow-up for confirmed Congenital Syphilis

- Neurodevelopmental, audiological and ophthalmological follow-up.
- Repeat reactive tests at 3, 6 and 12 months or until all tests become negative (usually by 6 months). Repeat IgM at 3 months in case the infant's response is delayed or suppressed, LP after 6 months (if CNS initially involved).
- Repeat treatment, if symptoms persist or recur; if titre not $\leq \frac{1}{4}$ of initial value or increases; if abnormal CSF control.

INFANTS BORN TO MOTHERS WITH POSITIVE SCREENING FOR SYPHILIS



Postnatal Advice for Infant of: _____

Hospital No: _____

EDD: _____

Maternal Syphilis Diagnosis

Option to be chosen for inclusion in advice letter

Treatment Details: Mother has been adequately treated prior to this pregnancy with no risk of congenital syphilis.

At Birth

Infant requires no additional physical examination and does **NOT** require laboratory test for syphilis.

Follow-Up: No follow up required for syphilis

Tick to select

----- **OR** -----

Treatment Details: Mother treated for syphilis during this pregnancy with low risk of congenital syphilis.

At Birth

Assess infant for signs of congenital syphilis. If no concerns perform routine syphilis screening bloods (not cord blood) – request “Syphilis screen + VDRL + treponemal IgM”.

Follow-Up: Refer to outpatients for review and organise pre-clinic bloods, requesting “Syphilis screen + VDRL + treponemal IgM”.

Tick to select

----- **OR** -----

Treatment Details: There is a significant risk of congenital syphilis.

At Birth

Assess infant for signs of congenital syphilis (see guideline) Undertake FBC, U+E, LFT's, ALT and request “Syphilis screen + VDRL + Treponemal IgM”. Discuss with neonatal SpR and GUM SpR re need for admission, further evaluation including LP and treatment.

Tick to select