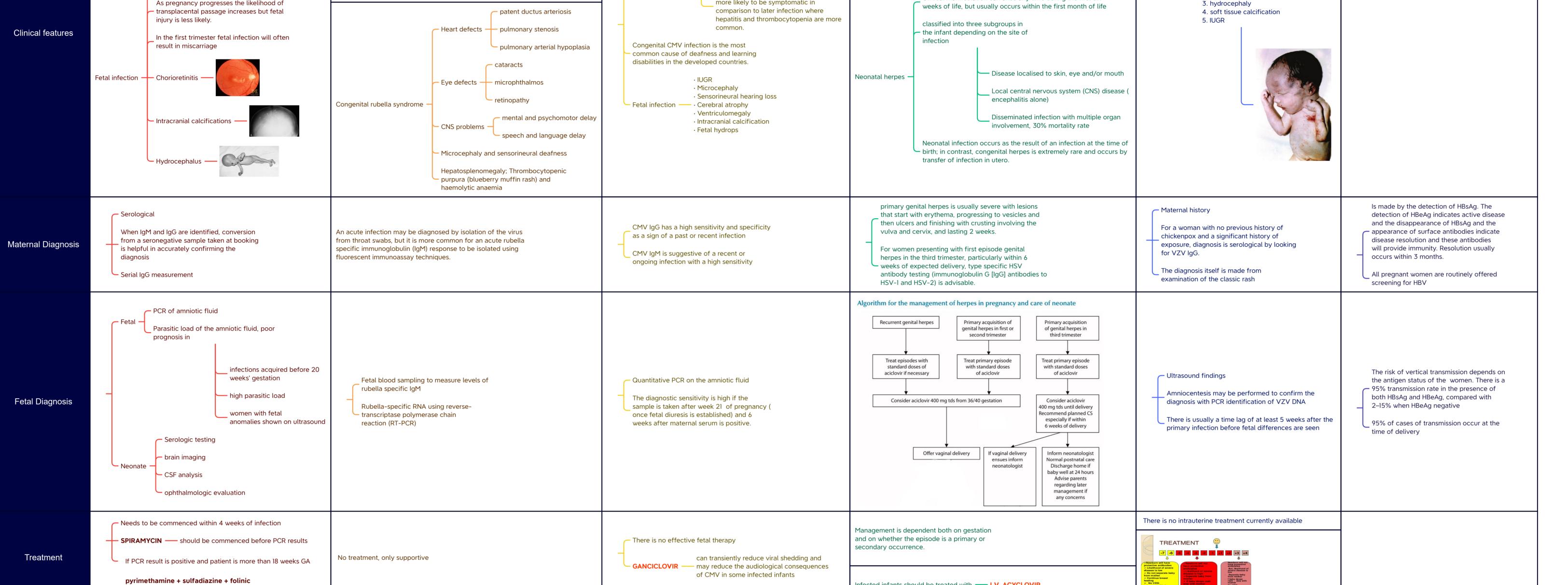
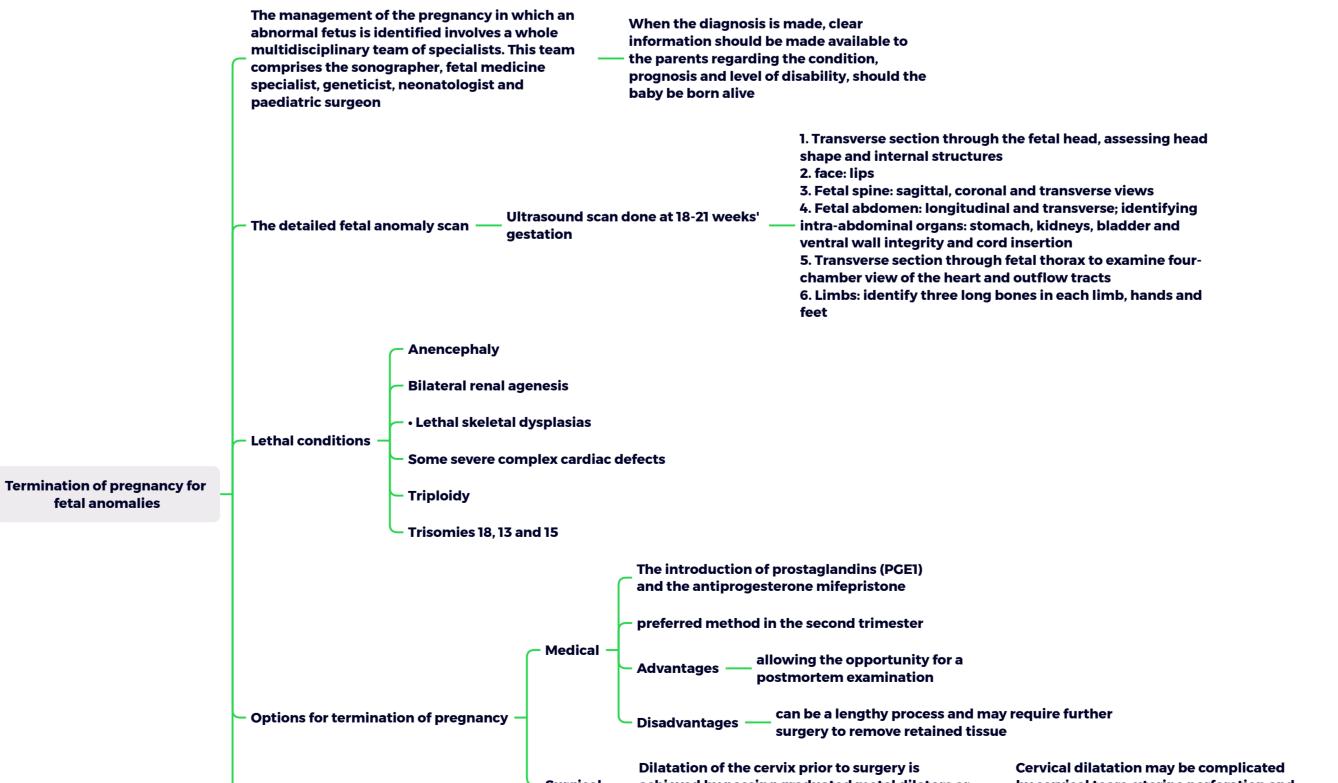


Perinatal infections

	Toxoplasmosis	Rubella (German measles)	Cytomegalovirus (CMV)	Herpes Simplex Virus	VARICELLA (chicken pox)	Hepatitis B virus
Overview	Pathogen unicellular protozoan- TOXOPLASMA GONDI Cats are the definitive host and produce oocysts and sporozoites • Human acquisition of the infection occursby: 1. Oocyst contaminated soil, salads, vegetables. 2. Ingestion of raw or undercooked meat containing tissue cysts (Sheep, pigs and rabbits are the most common meat sources). 3. Ingestion of oocysts and sporozoites in cat feces and contaminated surface water.	Pathogen single stranded RNA virus- Rubella virus; Rubivirus family Incidence The national immunization programs Incidence aerosol via the respiratory tract Transmission aerosol via the respiratory tract Incubation period on average of 14 days (12–23 days) Classic non-confluent maculopapular rash seen first on the face then spreading to the trunk. There is often a lymphadenopathy	Double-stranded DNA virus that belongs to the herpes virus family THE MOST COMMON CONGENITAL INFECTION 50–70 per cent of pregnant women show serological evidence of previous infection Transmission of the virus requires close contact between individuals though contaminated urine, saliva, semen, cervical secretions and breast milk Incidence of primary maternal infection in pregnancy is 1- 4%, with transmission to the fetus occurring in approximately one-third of cases	HSV is transmitted through close physical contact with mucosal surfaces or abraded skin and during sexual intercourse HSV remains latent in sensory neurons triggeminal nerve in type 1 sacral ganglia in type 2 Reactivation then occurs as a result of triggers such as trauma, fever, stress, menstruation and ultraviolet light primary genital herpes is usually severe with lesions that start with erythema, progressing to vesicles and then ulcers and finishing with crusting involving the vulva and cervix, and lasting 2 weeks	Varicella-zoster virus (VZV) is a highly contagious DNA virus of the herpes family It's transmitted by respiratory droplet and by direct personal contact with vesicle fluid. The incubation period is 7–21 days and a person is infectious 48 hours before the rash appears and continues to be infectious until the vesicles crust over, typically 5 days. Over 90% of the antenatal population in the UK are seropositive for VZV specific IgG antibody Infection is uncommon, affecting 1 in 1000 pregnancies	Hepatitis B virus (HBV) is an extremely infectious double-stranded DNA virus that has three major structural antigens surface antigen (HBsAg) core antigen (HBcAg) e antigen (HBeAg) This blood-borne virus is transmitted sexually, vertically or by blood contamination Carriage among pregnant women in the UK is estimated at 0.5-1%
	Usually asymptomatic, although they may develop a mild malaise, lethargy and lymphadenopathy Is often associated with unsafe eating habits	Fetal infection Fetal infection Defects occur in Fetal infection Fetal infec	The likelihood of CMV having an effect on the fetus is not gestation dependent, but the sequelae differ In early infection fetal brain anomalies are	Fetal infection Intrauterine infection is associated with In-utero fetal demise	Fetal infection Fetal infection (FVS): 1. limb deformity	



	acid is used		Infected infants should be treated with —— I.V. ACYCLOVIR	- No V2VG - Acyclovir if baby - Acyclovir develops rash - Acyclovir	
Prevention	Prenatal education Handling and cooking meat correctly Wearing gloves to handle cat litter Avoiding contact with objects that are potentially contaminated with cat feces	Prevention is by vaccination (childhood or post-natal) Rubella vaccine is live attenuated as part of the MMR vaccine, so 3 months contraception is advised after vaccination Testing of pregnant women for rubella immunity is mandatory Proper counseling regarding avoiding exposure		For women known to be seronegative varicella vaccine can be administered before pregnancy. This is a live attenuated vaccine and hence pregnancy should be avoided for 1–3 months after administration If the pregnant woman is not immune to VZV and she has had a significant exposure, she should be offered varicella-zoster immunoglobulin (VZIG) as soon as possible If maternal infection occurs in the last 4 weeks of a woman's pregnancy, there is a significant risk of varicella infection of the newborn. A planned delivery should normally be avoided for at least 7 days after the onset of the maternal rash to allow for the passive transfer of antibodies from mother to child, provided that continuing the pregnancy does not pose any additional risks to the mother or baby.	Prevention of HBV infections of the neonate is achieved by avoiding fetal invasive procedures during labour and the administration of passive immunoglobulin in the first 24 hours to neonates of highly infectious mothers. Hepatitis vaccination is given to those born of low-infectivity mothers When a baby has been immunised there is no contraindication to breastfeeding. When a baby has been immunization as per schedule 3 dose schedule Follow up Follow up testing done at 9 to 18 months of age for Anti-HBs and HbsAg



 Surgical
 achieved by passing graduated metal dilators or inserting vaginal prostaglandin preparations.
 by cervical tears, uterine perforation and the creation of false passages

 Time for grieving must be allowed
 Psychological stress is high after termination, with 40% of women showing symptoms of psychiatric morbidity

 Care of women and follow up
 Prevent lactation by Dopamine agonists as early as 16 weeks of gestation

 Postmortem results may provide additional information as to the precise diagnosis

 Referral to a genetic specialist may be required in order to assess the risk of recurrence and possibly to investigate other family members

