

Appendix 2. Literature searching and PICO (population, intervention, comparator and outcome) questions

Literature searching

The Medline, Embase and Cochrane Library databases were searched for English language papers published between 2010 and the date of the searches (May 2023).

Abstracts from selected conferences (Conference on Retroviruses and Opportunistic Infections, International AIDS Society/AIDS Conference, European AIDS Clinical Society, BHIVA, HIV Glasgow, Infectious Diseases Society of America and International Workshop on HIV and Women) between January 2017 and June 2019 were also searched.

The databases were searched using the following terms:

Search 1. Introduction/investigations

HIV/AIDS AND (pregn* OR fetus) AND (diagnostic imaging OR irradiation/radiation dose OR CT scan OR MRI scan OR X-ray OR gadolinium OR contrast medium OR endoscopy OR surgery OR (intensive care AND (ventilation OR pregnancy)))

Search 2. *Pneumocystis jirovecii* pneumonia (PCP)

HIV/AIDS AND (perinatal OR congenital OR pregn*) AND (PCP OR co-trimoxazole OR trimethoprim OR sulfamethoxazole OR clindamycin OR primaquine OR atovaquone OR pentamidine)

Search 3. Candidiasis

HIV/AIDS AND (perinatal OR congenital OR pregn*) AND (candid* OR amphotericin B OR anidulafungin OR caspofungin OR fluconazole OR itraconazole OR micafungin OR voriconazole OR posaconazole OR isavuconazole)

Search 4. Cryptococcal infection

HIV/AIDS AND (perinatal OR congenital OR pregn*) AND (cryptococci* OR amphotericin B OR flucytosine OR fluconazole)

Search 5. Toxoplasmosis

HIV/AIDS AND (perinatal OR congenital OR pregn*) AND (toxoplasma* OR pyrimethamine OR sulfonamide OR spiramycin OR atovaquone)

Search 6. Cytomegalovirus (CMV)

HIV/AIDS AND (perinatal OR congenital OR pregn*) AND (CMV OR valganciclovir OR ganciclovir OR foscarnet OR cidovovir)

Search 7. Mycobacterium avium complex (MAC)

HIV/AIDS AND (perinatal OR congenital OR pregn*) AND (non-tuberculous/atypical mycobacteria/mycobacterium avium complex/M kansasii OR rifabutin OR clarithromycin OR azithromycin OR ethambutol)

Search 8. Antifungal agents

HIV/AIDS AND pregn* AND (antifungal OR fluconazole OR itraconazole OR posaconazole OR clotrimazole OR ketoconazole OR miconazole OR isoconazole OR voriconazole OR amphotericin OR

echinocandin OR caspofungin OR micofungin OR anidulafungin OR terbinafine OR flucytosine OR griseofulvin OR imidazole OR triazole OR nystatin)

Search 9. Neonatal considerations

HIV/AIDS AND (perinatal OR congenital OR pregn*) AND (PCP OR non-tuberculous/atypical mycobacteria OR toxoplasmosis OR candidiasis OR cryptococcosis OR CMV)

This search was also limited to randomised controlled trials, systematic reviews and observational studies.

PICO questions

The literature searches were based on the following PICO questions:

Which radiological investigations are safe to use for pregnant women living with HIV and at risk of opportunistic infections?

What is the best treatment for PCP for pregnant women living with HIV?

For pregnant women living with HIV, with a CD4 count <200 cells/mm³, what is the best agent for PCP prophylaxis?

What dose of folic acid should be used for pregnant women receiving trimethoprim-sulfamethoxazole for the treatment of PCP?

What is the best treatment for candidiasis for pregnant women living with HIV?

What is the best treatment for cryptococcal infection for pregnant women living with HIV?

What is the best treatment for toxoplasmosis for pregnant women living with HIV?

What is the best treatment for CMV disease for pregnant women living with HIV?

What is the best treatment for disseminated MAC disease for pregnant women living with HIV?