Unborn children still exposed to NSAIDs

A study based on data from France’s mandatory health insurance system estimates that about 5000 to 6000 women per year in France are prescribed nonsteroidal anti-inflammatory drugs from the 6th month of pregnancy, excluding self-medication.

The Clermont-Ferrand Regional Pharmacovigilance Centre and Centre for Evaluation and Information on Drug Dependence studied the analgesics prescribed for pregnant women (1). They used the “General Sample of Health Insurance Beneficiaries” (EGB), a database that contains data on prescription drugs dispensed in community pharmacies and then submitted for reimbursement to the French National Health Insurance Fund for Salaried Workers (CNAMTS). They selected women who had given birth to a live baby between 1st January 2011 and 30th December 2013 (1).

The study population consisted of 22,002 women with an average age of about 30 years (1). About two-thirds (13,535) of these women had received at least one reimbursement for an analgesic during their pregnancy: about 60% for paracetamol; 5.6% for a nonsteroidal anti-inflammatory drug (NSAID); 3.8% for a paracetamol + codeine fixed-dose combination, tramadol or paracetamol + tramadol, or paracetamol + caffeine + opium; 0.4% for a triptan and 0.06% for a strong opioid (1).

Women who received reimbursement for aspirin at the dose used for an antiplatelet effect, an antidepressant or an antiepileptic were excluded (1). 5000 to 6000 pregnant women per year in France exposed to a prescribed NSAID from the 6th month of pregnancy. This corresponds to about 5000 to 6000 women per year in France. This is undoubtedly an underestimate of the true levels of exposure, because it excludes self-medication with over-the-counter and sometimes off-the-shelf NSAIDs, such as ibuprofen for oral or cutaneous administration, or iburipron lozenges (1,2). About 4% of the women studied claimed reimbursement for an NSAID during the first trimester of pregnancy.

Given their pharmacological properties, NSAIDs may increase the risk of spontaneous abortion during the first trimester of pregnancy. There are also concerns over a link with congenital heart defects. In the second and third trimesters of pregnancy, NSAIDs, including aspirin at anti-inflammatory doses, can provoke sometimes irre-