

Verapamil

Study Details	Patients	Prognostic factors	Outcome measures	Effect size	Comments
<p>Author & Year: Weber-Schoendorfer et al, 2008⁸⁴²</p> <p>Study design: Prospective observational study</p> <p>Setting: Multicentre study (11 centres)</p> <p>Duration of follow-up: Birth or end of pregnancy</p>	<p>Patient group: Pregnant women in their first trimester</p> <p>Inclusion criteria: NR</p> <p>Exclusion criteria: NR</p> <p>Group 1 N: 299 (62 to verapamil)</p> <p>Maternal age (median): 33 (16-48)</p> <p>Group 2 N: 806 Maternal age (median): 30 (17-44)</p>	<p>Group 1: verapamil Pregnant women with first trimester exposure to calcium channel blockers (CCBs) whose physician contacted a Teratology Information Service (TIS) that was a member of the European Network of Teratology Information Services (ENTIS) between 1986 and 2003</p> <p>Group 2: all calcium channel blockers As above but includes several calcium channel blockers including verapamil</p> <p>Group 3: controls Pregnant women who had been counselled during pregnancy about exposures known to be to non-teratogenic. Controls enrolled in the same country and year as exposed pregnancies.</p> <p>Confounding factors: More women using CCBs: Smoked (26.5% vs 11.5%) Smoked >5 cigarettes/day (23.1% vs 7.9%) Previous miscarriages (24% vs 13.2%)</p>	<p>Miscarriage (after exclusion of elective termination of pregnancy) N (%)</p> <p>Still births (after exclusion of elective termination of pregnancy) N (%)</p> <p>Elective termination of pregnancy (ETOP) N (%)</p> <p>Preterm children (<37 weeks) N (%)</p> <p>All birth defects N (%)</p> <p>Major birth defects (excluding chromosomal anomalies/syndromes)</p>	<p>Group1: 4/62 (6.9%) Group 2: 39/299 (14.6%) - adjusted odds ratio 2.21 (1.39, 3.50)* Group 3: 59/806 (7.6%)</p> <p>Group1: 1/62 (1.7%) Group 2: 6/299 (2.2%) - adjusted odds ratio 2.98 (1.02, 8.72)* Group 3: 6/806 (0.8%)</p> <p>Group1: 4/62 (6.5%) Group 2: 31/299 (10.4%) Group 3: 30/806 (3.7%)</p> <p>Group1: 12/62 (21.8%) Group 2: 54/299 (23.8%) - adjusted odds ratio 4.63 (2.94, 7.27)* Group 3: 47/806 (6.5%)</p> <p>Group1: 6/62 (10.7%) including 1 ETOP Group 2: 15/299 (6.6%) including 2 ETOPs - adjusted odds ratio 1.58 (0.81, 3.07)* Group 3: 33/806 (4.6%) including 2 ETOPs</p> <p>Group1: 2/62 (3.6%) Group 2: 8/299 (3.5%) including 1 ETOP - adjusted odds ratio 2.27 (0.90, 5.69)* Group 3: 14/806 (1.9%)</p>	<p>Funding: German Bundesinstitut für Arzneimittel und Medizinprodukte (BfArM)</p> <p>Limitations: Not stated if exposed patients and controls were selected consecutively. Unclear how controls were selected. Reports baseline characteristics for all CCB patients but not verapamil alone.</p> <p>*States outcomes parameters were adjusted for: maternal age, concomitant medication, alcohol and cigarette consumption, previous miscarriage and birth defects in previous offspring. Unclear if this refers to the adjusted odds ratios for calcium channel blockers as a whole.</p> <p>Additional outcomes: Live pregnancies, gestational age at delivery, birth weight</p> <p>Notes: Data collected by similarly structured questionnaire used by all centres to record following data at the first contact (early pregnancy before outcome known): drug exposure, demographics, medical & obstetric</p>

Headaches

Evidence tables – Clinical evidence

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		Had additional diseases - not defined (85.6% vs 27.3%)	N (%)	including 1 ETOP	history. Follow up after expected date of delivery by mailed questionnaire or telephone interview.

Abbreviations: NR=not reported, NA=not applicable, M/F=male/female, N=total number of patients in group, SD=Standard deviation, SE=Standard error, ITT=Intention to treat analysis, CCBs=calcium channel blockers