

# Pregnancy outcomes in women with polycystic ovary syndrome in two Latin American populations

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### Abstract

Pregnancy complications and obstetric outcomes were compared in 80 Chilean (PPCOSCh) and 70 Argentinian (PPCOSAr) pregnant women. Reference groups of Chilean and Argentinian normal pregnant women from the same antenatal care units were also compared. PPCOSCh showed a higher prevalence of gestational diabetes mellitus (GDM) (OR, 2.28, 95% CI: 1.08-4.77,  $p=.030$ ) and a lower prevalence of pregnancy-induced hypertension (PIH) (OR, 0.20, 95% CI: 0.07-0.54,  $p=.001$ ) compared to PPCOSAr. In the normal pregnant groups, the prevalence of PIH was lower in Chilean women compared to Argentinian women (OR, 0.24, 95% CI: 0.10-0.62,  $p=.001$ ). Similar to the pattern observed in the normal populations, newborns from PPCOSCh had higher birth weight and length compared with the newborns of PPCOSAr ( $p=.006$  and  $.014$ , respectively). In conclusion, differences in pregnancy complications and obstetric outcomes between Chilean and Argentinian pregnant women with PCOS could be determined by ethnic diversity together with environmental factors of both populations.

### IMPACT STATEMENT

What is already known on this subject: The reproductive and metabolic phenotypes of women with polycystic ovary syndrome vary between different populations, which could significantly influence the obstetric and neonatal outcomes in this syndrome.

What the results of this study add: Pregnant women with PCOS from two Latin American countries (Chile and Argentina) exhibit differences in the prevalence of gestational diabetes and pregnancy-induced hypertension, and in the birth weight of their newborns.

What the implications are of these findings for clinical practice and/or further research: Ethnic diversity together with environmental factors are fundamental elements that must be considered in the management of pregnant women with PCOS.

## Palabras clave

**Palabras clave de autor:**[Polycystic ovary syndrome](#); [pregnancy complications](#); [Chile](#); [Argentina](#); [birth weight](#)

**KeyWords Plus:**[SYNDROME PCOS](#); [DIAGNOSTIC-CRITERIA](#); [INSULIN-RESISTANCE](#); [METABOLIC PROFILE](#); [ANDROGEN EXCESS](#); [PREVALENCE](#); [RISK](#); [PREECLAMPSIA](#); [CONSENSUS](#)

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