

ONTARIO MULTIPLE MARKER SCREENING (MMS) PROGRAM

All pregnant women in Ontario are entitled to Integrated Pregnancy Screening (IPS)
Screens for Down Syndrome, Trisomy 18 and Neural Tube Defects

Source: Ontario Multiple Screening Program	IPS (Integrated Prenatal Screening)	FTS (First Trimester Screening)	MSS (Maternal Serum Screening)
What it tests for	Prenatal screening test for Down syndrome, trisomy 18 and open neural tube defects	Prenatal screening test for Down syndrome only	Prenatal screening test for Down syndrome, trisomy 18 and open neural tube defects
Detection rate	With NT ultrasound 90% detection rate for Down syndrome <u>Without</u> NT ultrasound (blood tests only) 80-85% detection rate for Down syndrome	80-85% detection rate for Down Syndrome	75% detection rate for Down syndrome
When it is performed	Part 1: Performed at 11 weeks to 13 weeks + 6 days Part 2: Performed ideally at 15-16 weeks	Performed at 11 weeks to 13 weeks + 6 days	Performed at 16 weeks but no later than 20 weeks. Results are available within 1 week of the screening
What the screen consists of	Part 1: Ultrasound to measure the thickness of the skin at the back of the neck of your baby (Nuchal translucency or NT) + Blood work to measure PAPP-A (a protein that is in the blood of every pregnant women) Part 2: Blood test for AFP (alph feto-protein), uE3 (unconjugated estriol) and hCG (chorionic gonadotrophin)	NT ultrasound and blood test for PAPP-A and free beta hCG	Blood test Quad Screen: AFP, uE3, hCG, inhibin
Advantages	Highest detection rate for Down syndrome Tests for Down syndrome, trisomy 18 and open neural tube defects	Gives an earlier result for Down syndrome risk than IPS	Can be performed if early screening (IPS or FTS) not done
Disadvantages	Testing is done in both the first and second trimesters, therefore results are received later in pregnancy than with FTS	Cannot assess neural tube risk Availability is limited	Detection rate for Down syndrome not as high as with IPS and FTS
	<p>A positive screen means there is an increased chance you are carrying a baby with Down Syndrome, trisomy 18 or an open neural tube defect. It does not say tell you you are... Your health care provider will discuss your options with you.</p> <p>For further information please search the following web site. Ontario Maternal Serum Screening at http://www.lhsc.on.ca/programs/rmgc/mss/what_mms.htm</p>		