

B·R·A·H·M·S Fast Screen PLUS FMF UK algorithms

Discover how B·R·A·H·M·S Fast Screen™ PLUS helps deliver reliable results for trisomy and pre-eclampsia screening

Accurate and powerful

- Validated algorithms supported by extensive clinical research and data from Fetal Medicine Foundation (FMF) studies
- Calculates risk by combining maternal characteristics with biophysical and biochemical markers
- Personalized assessment through multiple correction factors

Efficient

- Aid in early identification of high-risk pregnancies helps support timely intervention
- Designed to support prenatal care planning
- Supported by clinical datasets for trisomy screening and pre-eclampsia

Reliable

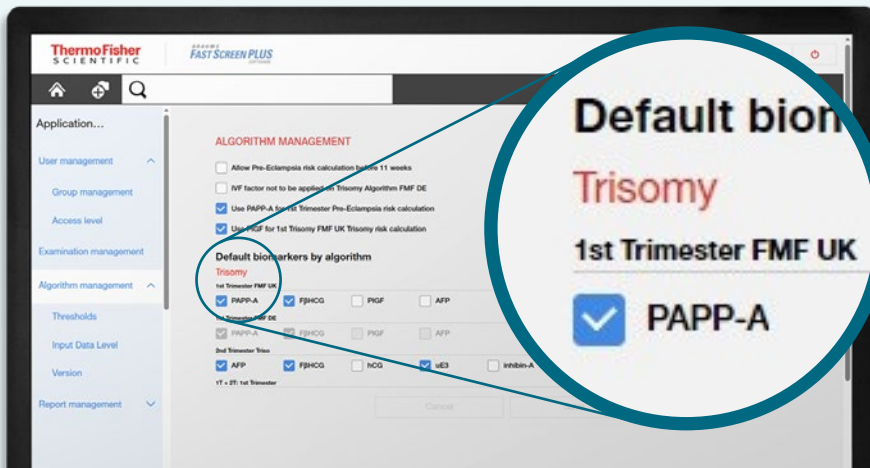
- Used in clinical settings internationally
- Strengthened by robust evidence across first to third trimester screening

For accurate trisomy and pre-eclampsia screening, specific data are important including maternal characteristics, biochemical markers and biophysical measurements. The table details the required data (mandatory and optional) for comprehensive trisomy and pre-eclampsia screening risk assessments

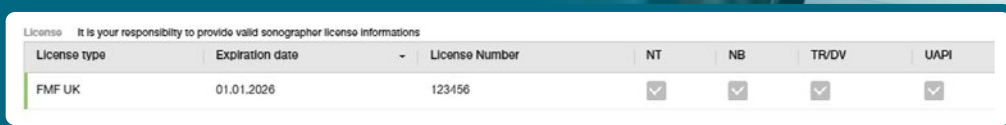
	Trisomy First trimester	Pre-eclampsia First/second/third trimester
Maternal characteristics		
Maternal Age (15-50)	√	√
Weight (20-200 Kg)	√*	√*
Height (50-250 cm)		√*
Conception method	√	√
Twin pregnancy	√	√ †
Ethnicity	√*	√*
Smoking status	√*	√*
Diabetes	√*	√*
Parity	√*	√*
Chronic hypertension		√*
Systemic Lupus Erythematosus		√*
Antiphospholipid Syndrome		√*
Pre-eclampsia family history		√*
Ultrasound markers		
NT (not mandatory for quadruple test)	√	
Nasal Bone	√ [§]	
Ductus Venosus Pulsatility Index	√ [§]	
Fetal Heart Rate	√**	
Uterine Artery Pulsatility Index		√**
Biomarkers		
First trimester	Free βhCG, PAPP-A (AFP and PIGF optional)	PAPP-A**, PIGF**
Second trimester		PIGF**, sFlt-1**
Third trimester		PIGF**, sFlt-1**
Biophysical markers		
Mean Arterial Pressure		√**

PAPP-A= Pregnancy-associated plasma protein A
Free βhCG= Free β human chorionic gonadotropin
AFP= Alpha fetoprotein
PIGF= Placental growth factor
sFlt-1= Soluble fms-like tyrosine kinase 1

* "Unknown" option available
** Recommended optional markers
§ Optional markers, certification required
† First trimester only



First trimester trisomy screening includes up to 4 maternal biomarkers such as PAPP-A, Free β hCG, AFP and PIGF. PIGF is a key marker assessing placental function and predicting with PAPP-A early onset pre-eclampsia. PIGF and sFlt-1 are used in second and third trimester screening as an aid to predict late-onset pre-eclampsia.



Activating the ultrasound license within the B-R-A-H-M-S Fast Screen PLUS software enables the use of sonographic-compliant measurement parameters, supporting accuracy, security and data traceability, while reinforcing confidence in scan interpretation and clinical decision-making in line with established professional quality standards.



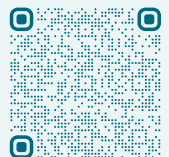
Clinical performances of B-R-A-H-M-S Fast Screen PLUS

	Biomarkers combination		DR (%)	FPR (%)
FMF UK 1st trimester trisomy screening	PAPP-A, Free β hCG, NT	T21	96.55	4.68
		T18	100.0	2.65
		T13	95.45	2.65
FMF UK 1st trimester trisomy screening	PAPP-A, Free β hCG, PIGF, NT	T21	94.25	2.56
FMF UK pre-eclampsia screening 1st trimester	PIGF, PAPP-A, MAP, UAPI	PE <32 Weeks	91.67	9.95
		PE <34 Weeks	90.77	9.95
		PE <37 Weeks	72.26	9.95
FMF UK pre-eclampsia screening 2nd trimester	PIGF, sFlt-1, MAP, UAPI	PE <32 Weeks	85.71	0.89
		PE <37 Weeks	75.00	9.90
FMF UK pre-eclampsia screening 3rd trimester	PIGF, sFlt-1, MAP, UAPI	PE <37 Weeks	80.00	10.0
		PE <42 Weeks*	57.14	10.0
		PE <42 Weeks**	80.41	9.90

*screening at 30-34 weeks

**screening at 35-37 weeks

Scan to access full references
and supporting scientific literature



Clinical Diagnostics

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