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Health Technology Review		
Technology Ref.:	HTA23066	
Technology	Quidel Triage PIGF Test (98800EU) and Quidel Triage PIGF Control 1	
Name/Version/Model:	(98813EU) and Control 2 (98814EU)	
Approvals by International Bodies:	510(k) premarket approval by FDA	
Company name:	Gulf Med Medicines LLC	
Agent in UAE:	Vijay Ankam	
Email:	vijay_ankam@gulfmedfze.com	

	The Quidel Triage PIGF Test is a fluorescence immunoassay to be used with
	the Quidel Triage Meter for the quantitative determination of Placental
	Growth Factor (PLGF) in EDTA anticoagulated plasma specimens. The test is
	used in conjunction with other clinical information as an aid in the diagnosis
	of preterm pre-eclampsia and as an aid in the prognosis of delivery, in women
	presenting with signs & symptoms of pre-eclampsia after 20 weeks and prior
	to 35 weeks of gestation.
	Pre-eclampsia is a potentially serious complication of pregnancy, thought to
	be related to problems with the development of the placenta. It requires
	referral to a specialist and hospital admission to monitor the mother and
	unborn baby and is only cured by the birth of the baby. Pre-eclampsia is
	characterized by high blood pressure (hypertension) and proteinuria, which is
	when the kidneys leak protein into the urine. Either, on its own indicates a
	risk of developing pre-eclampsia. Other symptoms include headache, visual
	disturbances, right upper quadrant abdominal (epigastric) pain, oedema
	(swelling of the hands, face or feet) and oliguria (low urine output).
Short Description of	If pre-eclampsia is not diagnosed and closely monitored, it can lead to
the Technology:	potentially life-threatening complications including eclampsia, HELLP
	syndrome (hemolysis, elevated liver enzymes and low platelets),
	disseminated intravascular coagulation, and stroke or organ dysfunction.
	Women who have hypertension or pre-eclampsia during pregnancy may have
	a higher risk of placental abruption. Gestational hypertension and pre-
	eclampsia may also affect the unborn baby by slowing growth or leading to
	premature pirtn.
	Placental growth factor (PLGF)-based testing can reassure pregnant women
	and themselves and increase their confidence in treatment plans. DICE
	tosting can improve rick accossment and enable early planning for a cafe birth
	and may also help avoid stressful last-minute medical interventions
	Farly planning for at-risk pregnancies also means women at centres without
	facilities for preterm baby care can be safely transferred to a suitably
	equipped centre in good time. This improves the outcome for the baby and
	can avoid stressful situations, such as the mother and baby being cared for in
	different centres. Another benefit of the tests is better identification of







women who will not develop preterm pre-eclampsia, reducing unnecessary hospitalization and associated costs.

Health Technology Assessment Team Recommendation:

Approve

Summary of Review:

The Test is a rapid blood test utilizing the technology of fluorescence immunoassay along with Quidel Triage meter. the test is used to measure maternal circulating PIGF in EDTA anticoagulated plasma specimens, it indicated for pregnant women (between 20 to 35 weeks) as an aid tool in the management of suspicious pre-eclampsia. The test has premarket authorization approval by FDA and been recommended by NICE. Upon reviewing the provided published studies and clinical trials the test proved its efficacy in ruling out in patient's evaluated for suspected preeclampsia, and shown effective as aid tool in the management of suspicious pre-eclampsia.

Advantages	Disadvantages
FDA Approved device with no evidence of	PLGF-based test results should be used
device recalls or safety alerts on the test.	alongside clinical information for decision
	making
Real-world" data has shown that interpretation	Further research is required to ascertain the
of PIGF-based test results can aid clinicians in	benefits of elective early delivery on perinatal
improving maternal outcomes and a growing	outcomes when utilizing PIGF-based testing as
body of evidence has implied a role for sFit-	more than just an adjunct to other clinical
1/PIGF in the prognostication of adverse	information in decision-making
Fridence that knowledge of DICE levels can	The tests are not a substitute for elipical
reduce corious maternal marbidity	The tests are not a substitute for clinical
There is omerging evidence of the notential	Clinical exports also explained that a low PLCE
advantages of angiogenic biomarkers to	test result does not always mean a woman has
diagnose and predict other complications	re-eclamosia and can be associated with other
including fetal growth restriction and stillbirth	conditions affecting the placenta
The Triage PLGE Test can be used at the point of	Further research is recommended into how well
care and in the laboratory	the tests work when women are pregnant with
	more than 1 baby to find out if different cut-offs
	are needed
Help in better identification of women who will	The PIGF-based test does not indicate the
not develop preterm pre-eclampsia, reducing	severity of the condition. PIGF-based test results
unnecessary hospitalization	should not be used to make decisions about
	timing of birth in people with preterm pre-
	eclampsia
Placental growth factor (PLGF)-based testing can	The value of serial assays of placental growth
reassure pregnant women with hypertension	factor preeclampsia needs further studying and
who are anxious about complications and risks	remains to be confirmed.
to the baby and themselves, and increase their	
confidence in treatment plans Clinical experts	
said that the tests can improve risk assessment	
and enable early planning for a safe birth.	



We recommend an **approval of using this technology** with the following conditions:

- 1. Approval of Technology Quidel Triage PIGF Test (98800EU) and Quidel Triage PIGF Control 1 (98813EU) and Control 2 (98814EU) as an aid test alongside with other clinical information to help diagnose preterm pre-eclampsia in women who are between 20 weeks and 35 weeks pregnant with signs and symptoms of pre-eclampsia.
- 2. Establishing a proper quality monitoring process and reporting of any adverse events or unwarranted consequences including safety issues of employees.
- 3. Provision of regular updates and reports about the product to DOH upon request.
- 4. Communicate the need for screening strategy for pre-eclampsia to ADPHC utilizing the new technologies such as this test "Quidel Triage PIGF Test".

Moreover, DOH has the right to stop the product at any stage if deemed necessary, initial conditions and any subsequent conditions must be satisfied before obtaining final approval. Failure to do so will reflect in provoking the approval.











Population, setting and intended user for Technology "Quidel Triage PIGF Test"

- Population/ Intended User;
 - The test is used with other clinical information to help diagnose preterm pre-eclampsia in women who are between 20 weeks and 35 weeks pregnant with signs and symptoms of preeclampsia.
- To be ordered by:
 - By Obstetrics and gynecology
- Clinical Setting:
 - Healthcare Facilities
- Condition of use:
 - As per the manufacturer instructions
- Exclusion criteria:
 - Other conflicting medical issues

