

Prenatal Supervision



Triple Diagnosis

AFP, HCG and Free Estriol are especially useful in the context of Triple-Diagnosis for providing a risk evaluation for Down-Syndrome, Turner-Syndrome, Trisomie 18 and Triploidie, as well as neural tract and abdominal wall defects.

Free Estriol

- Standard range: 0,3 - 40 ng/ml
- Short incubation time: (90 min. at RT)
- Sensitivity: $\leq 0,2$ ng/ml

HCG

- Standard range: 5 - 1000 μ /ml
- Short incubation time: (40 min. at RT)
- Sensitivity: ≤ 2 μ /ml

AFP

- Standard range: 10 - 160 μ /ml
- Short incubation time: (40 min. at RT)
- Sensitivity: $\leq 0,2$ μ /ml

First Trimester Down Syndrome

PAPP-A has been found to be the best marker for down Syndrome screening in the first trimester (10.-13. week of pregnancy). In combination with free β -HCG and the determination of nuchal translucency a detection rate of 89 % with a false positive rate of only 5 % is achieved.

PAPP-A



(Pregnancy Associated Plasma Protein A)

- Standard range: 0 - 60 μ g/ml
- Incubation time: 2 x 30 min. / 15 min.

Free β -HCG*

- Standard range: 2.5 - 200 ng/ml
- Short incubation time: 80 min.
- Sensitivity: 0.2 ng/ml

*) Not available in USA, EU

HPL

- Standard range: 1,25 - 20 mg/l
- Short incubation time: (40 min. at RT)
- Sensitivity: $\leq 0,3$ mg/l

New

PLGF

PLGF (Placenta Growth Factor) a new marker for

Preeclampsia

Preeclampsia is a common hypertensive disorder of pregnancy characterized by systemic endothelial dysfunction and diagnosed by the appearance of hypertension and proteinuria. Potentially life-threatening complications of preeclampsia include seizures, cerebral hemorrhage, disseminated intravascular coagulation, and renal failure.

- Standard range: 25 - 1000 pg/ml
- Incubation time: 2 h 30 min.
- Sample: 25 μ l Serum
- Sensitivity: < 1.062 pg/ml
- Cut off: 15 - 18 WOP* < 42 pg/ml

*) WOP = week of pregnancy

