



**SAG 1, 5, 6™, Neospora, C-reactive Protein, S. Fayeri, MPP/MP2
Case Evaluation**

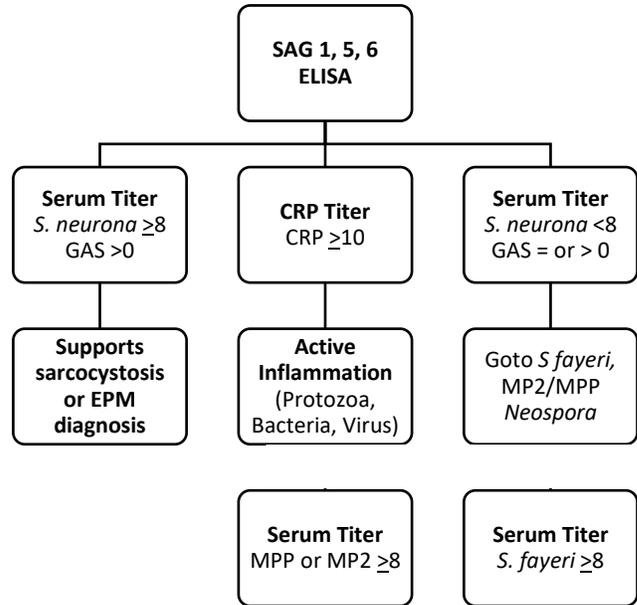
Instructions

- Please evaluate the neurological deficits in a horse at a walk including any additional manipulative procedures. Place your score on the SUBMISSION FORM. The GAS is used to evaluate your case and is required for test interpretation. Treatment outcome can be useful when combined with testing.

**Gait Assessment Score
(GAS)**

| GAS | Gait Evaluation |
|-----|---|
| 0 | Normal, neurologic deficits not detected. |
| 1 | Neurologic deficits may be detectable at normal gaits; exacerbated with manipulative procedures (e.g., backing, turning in tight circles, walking with head elevation, etc.). |
| 2 | Neurological deficit obvious at normal gaits or posture; signs exacerbated with manipulative procedures. |
| 3 | Neurological deficit obvious at normal gaits; horses give the impression that they may fall (but do not) and buckle or fall with manipulative procedures. |
| 4 | Neurologic deficit is profound at normal gaits; horse frequently stumbles or trips and may fall and normal gaits when manipulative procedures are utilized. |
| 5 | Recumbent, unable to rise. |

EPM Decision Tree



*Both SAG 1, 5, 6 and CRP is recommended to be tested to rule out EPM

**SAG 1, 5, 6™ or Neospora Interpretation
(ELISA)**

| Serum titer | Due to <i>S. neurona</i> or <i>Neospora</i> |
|-------------|---|
| Negative | 2, 4: No current <i>S. neurona</i> or <i>Neospora</i> infection. |
| Positive | 8, 16, 32, 64: Antibody present. The time to seroconvert (turn negative) depends on the immune background of the animal. Recurrent infections result in titers that persist for up to 8 months. |

***Sarcocystis fayeri* Interpretation
(*Sarcocystis fayeri* ELISA)**

| Serum titer | Probability of <i>S. fayeri</i> infection |
|-------------|---|
| Negative | 0, 4: No current <i>S. fayeri</i> infection. |
| Positive | 8, 16, 32, 64: <i>S. fayeri</i> cysts are present in muscles. The toxins affect the neuromuscular system. Treatment includes long term protocoal drugs that prevent new cyst formation. |

**C-reactive Protein Interpretation
(CRP ELISA)**

| CRP titer | Inflammation due to active infection |
|-----------|---|
| <16 | Normal. |
| >16 | Inflammation due to active infection. |
| 20 | Target value for assessing d/c polyneuritis therapy |
| >39 | Consider polyneuritis in the diagnosis in relapse cases |

**MPP/MP2 Interpretation
(Equine Myelin Protein ELISA)**

| Serum titer | Probability of MPP/MP2 |
|-------------|---|
| Negative | 0, 4: No anti myelin antibody. |
| Positive | 8, 16, 32, 64: Antibody to myelin protein present. The disease process involves IL6 and antibody. Both should be addressed by specific treatment. |