

Reports and protocols used in 13 different equine cases

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SLATAN: 7 years old show jumping horse

The horse was suffering from acute periarthritis and degenerative proliferative osteoarthritis on the first and second phalanx of the front left limb (proximal interphalangeal joint). Grade 3 out of 5 lameness.

Horse has been treated with EQuitrasound Flat Silver hand probe (pulsed ultrasonic emission) and Concave Silver hand probe (pulsed ultrasonic emission) for 12 treatment sessions.

During the first 4 weeks we performed 2 treatment sessions per week; after the first 4 weeks we performed only 1 treatment

session per week.

Each treatment session lasted 30 minutes; each hand probe was used for approximately 15 minutes. Power output was initially set to 70% and raised to 100% after 5 minutes.

The horse was given complete rest for 4 months and was only hand walked.

The outcome has been very satisfactory. Horse has been back to normal activities since 10 months ago.



Before treatment (SLATAN: Left Front Hoof DLPMO - 2013 Aug 26)



Before treatment (SLATAN: Left Front Hoof DMPLO - 2013 Aug 26)



Before treatment (SLATAN: Left Front Hoof LM - 2013 Aug 26)



One month after treatment degenerative osteoarthritis has stabilized (SLATAN: Left Front Hoof DLPMO - 2013 Oct 04)



One month after treatment degenerative osteoarthritis has stabilized (SLATAN: Left Front Hoof DMPLO - 2013 Oct 04)



One month after treatment degenerative osteoarthritis has stabilized (SLATAN: Left Front Hoof LM - 2013 Oct 04)



4-month follow-up: stabilized degenerative osteoarthritis and lameness regression (SLATAN: Left Front Hoof DLPMO - 2014_Jan_07)



4-month follow-up; stabilized degenerative osteoarthritis and lameness regression (SLATAN: Left Front Hoof LM - 2014_Jan_07)



7-month follow-up: stabilization and partial regression of degenerative osteoarthritis. Complete remission of lameness. (SLATAN: Left Front Hoof DLPMO - 2014 Apr 03)



7-month follow-up: stabilization and partial regression of degenerative osteoarthritis. Complete remission of lameness. (SLATAN: Left Front Hoof DMPLO - 2014 Apr 03)



7-month follow-up: stabilization and partial regression of degenerative osteoarthritis. Complete remission of lameness. (SLATAN: Left Front Hoof LM - 2014 Apr 03)

ROCKER: 10 years old show jumping gelding

The horse was suffering from a serious muscle strain at the right gluteus medius. Persistent grade 2 lameness followed by muscle atrophy.

Horse has been treated with PRP local injections followed by EQuitrasound treatments, using *Flat Red hand probe* (continuous ultrasonic emission) and *Flat Silver hand probe* (pulsed ultrasonic emission) for 10 treatment sessions. We performed 2 treatment sessions per week. Each treatment session lasted 30 minutes; each hand probe was used for approximately 15 minutes. Power output was set to 100%.

Horse is back to normal activities and participates to competitions. Atrophy is improving after 6/8 months from the onset of the problem.

DORUS: 11 years old dressage horse

The horse was suffering from severe periarthritis and a beginning of dorsal bone proliferation on the second phalanx of the front left limb. Grade 2/3 out of 5 lameness.

Over a period of 2 months we performed 24 treatment sessions, using EQultrasound Shockwave Effect hand probe (pulsed ultrasonic emission) and Flat Silver hand probe (pulsed ultrasonic emission) associated with Neodimio Yag high power laser. We performed 3 treatment sessions per week. Each treatment session lasted approximately 30 minutes; Shockwave Effect hand probe was used for 10 minutes, while Flat Silver hand probe was used for 20 minutes. Power output was set between 70% and 100%.

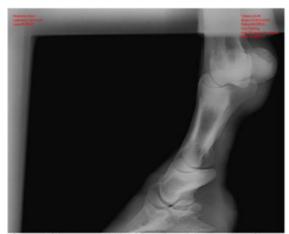
As shown by X-rays, bone proliferation seems to be reduced. Horse returned to normal activities after 3 months hand walking.



Before treatment (DORUS: Left Front Hoof DMPLO - 2014 May 16)



Before treatment (DORUS: Left Front Hoof LM - 2014 May 16)



2-month follow-up: stabilization and partial regression of bone proliferation. Complete remission of lameness.
 (DORUS: Left Front Hoof DLPMO - 2014 Sep 11)



2-month follow-up: stabilization and partial regression of bone proliferation. Complete remission of lameness. (DORUS: Left Front Hoof LM - 2014 Sep 11)

GRATUSKA: 5 years old show jumping sella italiano mare

The horse was suffering from a grade 1 spontaneous lameness to the front left and front right limbs. After flexion test lameness went to grade 3/4 out of 5; bilateral periarthritis to the front fetlocks, dorsal osteophytes on both front left and right first phalanges.

Therapy consisted of four intra-articular PRP injections followed by EQultrasound treatments. We performed 6 EQultrasound treatments using the *Concave Silver hand probe* (pulsed ultrasonic emission). Once a week we treated each fetlock for approximately 30 minutes; hand probe power output was set between 70% and 100%.

Horse is back to normal activities.



Before treatment (GRATUSKA: Right Front Fetlock DLPMO - 2014 Jun 24) Before treatment (GRATUSKA: Right Front Fetlock LM - 2014 Jun 24)

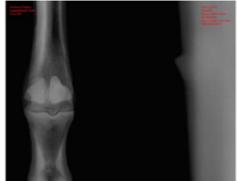




Before treatment (GRATUSKA: Right Front Fetlock LM - 2014 Jun 24



Before treatment (GRATUSKA: Left Front Fetlock DLPMO - 2014 Jun 24)



Before treatment (GRATUSKA: Left Front Fetlock DP - 2014 Jun 24)



Before treatment (GRATUSKA: Left Front Fetlock LM - 2014 Jun 24)





Before treatment (GRATUSKA: Left Front Fetlock LM - 2014 Jun 24)

Before treatment (GRATUSKA: Left Front Fetlock DLPMO - 2014 Jun 24)

CORANO: 14 years old show jumping gelding

The horse has experienced an injury to the hind right suspensory ligament. The injury has caused the formation of an edema and pain to digital pressure. Grade 2 lameness.

At first the horse has been treated 3 times with EQultrasound in order to reduce the edema and eliminate both local pain and lameness. We treated the horse every other day using both the *Shockwave Effect hand probe* (pulsed ultrasonic emission) and the *Flat Silver hand probe* (pulsed ultrasonic emission). Each treatment session lasted approximately 30 minutes; *Shockwave Effect hand probe* was used for 10 minutes, while *Flat Silver hand probe* was used for 20 minutes. Power output was set between 70% and 100%.

In the second phase the horse has been treated with EQuitrasound associated with a local injection of 6 cc. of 97% concentration of monoclonal cells (monocytes). In this phase we treated the horse twice a week, using both the Shockwave Effect hand probe (pulsed ultrasonic emission) and the Flat Silver hand probe (pulsed ultrasonic emission). Each treatment session lasted approximately 30 minutes; Shockwave Effect hand probe was used for 10 minutes, while Flat Silver hand probe was used for 20 minutes. Power output was set between 70% and 100%.

In the third phase of the treatment, during the next weeks, more EQuitrasound treatment sessions will be performed.

HIDALGO: 7 years old show jumping gelding

The horse was suffering from a serious atrophy at the right gluteal muscle, following a previous muscle pathology.

Regenerative medical therapy consisted of 3 PRP injections followed by EQultrasound treatments.

We performed 10 EQultrasound treatments using the Flat Red hand probe (continuous ultrasonic emission) and Flat Silver hand probe (pulsed ultrasonic emission).

We treated the horse twice a week for approximately 30 minutes; each hand probe was used for 15 minutes. Power output was set to 100%.

Pain is definitively gone and muscles are building up again. Horse is back to normal activities.

DENISE: 7 years old show jumping mare

Mare was suffering from left cervical myalgia, which persisted even after previous treatments.

Therapy consisted of 20mg betamethasone injection followed by 10 EQultrasound treatments.

Treatments were performed using the *Flat Red hand probe* (continuous ultrasonic emission). We treated the horse twice a week for approximately 20 minutes; power output was set to 100%.

Outcome has been excellent. Mare is back to normal activities.

CARLSBERG: 13 years old show jumping horse

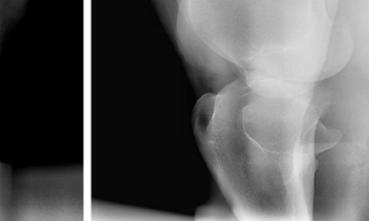
The horse was suffering at the left stifle for chronic damage of the tibio-femoral joint, the medial meniscus and of the medial collateral ligament. Lameness was between grade 1 and grade 2.

Therapy consisted of PRP injection followed by 10 EQultrasound treatments.

EQuitrasound treatments were performed using both the Shockwave Effect hand probe (pulsed ultrasonic emission) and the Flat Silver hand probe (pulsed ultrasonic emission). We treated the horse twice a week for approximately 30 minutes; Shockwave Effect hand probe was used for 10 minutes, while Flat Silver hand probe was used for 20 minutes. Power output was set between 70% and 100%. Whenever possible we still treat the horse twice before competitions.

Horse is back to normal activities and participates to competitions.





Before treatment (CARLSBERG: Left Hind Stifle LM - 2014 Mar 11)

BANDITO: 4 years old show jumping sella italiano gelding

The horse was hurting for a severe trauma at the left hock, in particular of the tibio talar joints and tibio-tarsal joints, with the presence of small bone fragments and tearing of the joint capsule with consequent articular deformation.

An arthroscopically-guided curettage was performed followed by rest and 12 EQuitrasound treatment sessions. Treatments were performed using both the *Flat Silver hand probe* (pulsed ultrasonic emission) and the *Concave Silver hand probe* (pulsed ultrasonic emission). We treated the horse twice a week for approximately 30 minutes; each hand probe was used for 15 minutes. Power output was set between 70% and 100%.

The articular deformation has been stabilized, severe lameness has gone and horse is back to normal activities.







Before treatment (BANDITO: Left Hind Hock DP - 2012 Nov 30)



2-month follow-up: stabilization of articular deformation. (BANDITO: Left Hind Hock DP - 2013 Feb 17)



4-month follow-up: stabilization of articular deformation. Complete remission of lameness. (BANDITO: Left Hind Hock DLPMO – 2013 Apr 18)

VERENA: 12 years old show jumping mare

Horse was suffering from left cervical myalgia, not severe, but persisting even after treatments performed during the previous two years.

Therapy consisted of 20mg betamethasone injection followed by 5 EQultrasound treatments. The first EQultrasound treatment session was performed one week after the injection. During all treatment sessions both the *Flat Red hand probe* (continuous ultrasonic emission) and the *Flat Silver hand probe* (pulsed ultrasonic emission) were used. We treated the horse twice a week and each treatment session lasted approximately 30 minutes; each hand probe was used for 15 minutes. Power output was set to 100%.

The day after the first EQuitrasound treatment, one week after the local injection, the rider reported a clear improvement in horse's rigidity.

The outcome has been excellent. Horse is back to normal activities.

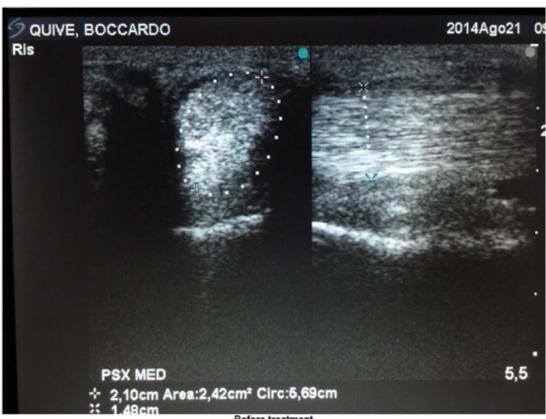
Currently two EQuitrasound treatments are being performed the week before competitions.

QUIVE: 14 years old show jumping mare

The horse has experienced an exacerbation of a pre-existing injury at the hind left limb, precisely at the distal medial branch of the suspensory ligament.

Horse has been treated with EQuitrasound Shockwave Effect hand probe (pulsed ultrasonic emission) and Flat Silver hand probe (pulsed ultrasonic emission) for 11 treatment sessions. We treated the horse twice a week for approximately 30 minutes; Shockwave Effect hand probe was used for 10 minutes, while Flat Silver hand probe was used for 20 minutes. Power output was set between 70% and 100%.

Horse is currently undergoing rehabilitation.



Before treatment

TANJA: 8 years old show jumping mare

The horse has experienced a slight increase in volume and sensitivity to digital pressure at the hind left limb's distal lateral branch of the fetlock's suspensory ligament.

The horse was given rest for 30 days and has been treated with EQuitrasound Shockwave Effect hand probe (pulsed ultrasonic emission) for 7 treatment sessions. We treated the horse twice a week for approximately 15/20 minutes with power output set between 70% and 100%.

Horse is back to normal activities.



Before treatment

NELSON: 11 years old dressage gelding

Horse showed severe lameness of the front left limb, which had started two months earlier, caused by proximal insertional pathology of the suspensory ligament. Horse was also suffering from a persistent left cervical myalgia.

Therapy consisted of PRP injections at the insertion of the suspensory ligament, initially followed by shockwaves alternated to EQuitrasound treatments and then just by EQuitrasound treatments.

Shockwave Effect hand probe (pulsed ultrasonic emission) was applied directly on the insertion, while Flat Silver hand probe (pulsed ultrasonic emission) and Flat Red hand probe (continuous ultrasonic emission) were applied on the cervical area. At first treatment sessions were performed every other day, then once every three days. Each time the Shockwave Effect hand probe was applied for approximately 10/15 minutes, while the Flat Silver hand probe and the Flat Red hand probe for 15/20 minutes. For all three hand probes power output was set between 70% and 100%.

After two years being away from competitions, the horse won bronze medal at the Italian Dressage Championship, about 7 months after the beginning of therapy.