



Wheat Ridge Veterinary Specialists

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Hip Dysplasia – Treatment Options

1) CONSERVATIVE

- WEIGHT REDUCTION—”THIN IS GOOD”
 1. Limit feeding has a profound positive effect on expression of CHD.*
 2. 83% of dogs with CHD that are permitted to get overweight develop osteoarthritis (OA).*
 3. ONLY 50% of dogs with CHD that are kept LEAN develop OA.*
 4. Lean dogs live 1.8 years longer.*
 5. Keeping dogs lean does not change the genes of dogs predisposed to CHD; however, leanness has been shown to delay or prevent the expression of radiographic signs of CHD.*

* Gail Smith, VMD, PhD, University of Pennsylvania, “Influence of diet and age on subjective hip score & OA”
Veterinary Orthopedic Society abstract 2002
- NSAIDS - Nonsteroidal Anti-inflammatory Drugs (Rimadyl, Deramaxx, Metacam, Zuprin, Etogesic, Aspirin)
- NEUTRACEUTICALS - Glucosamine, Chondroitin Sulfate, MSM supplements
- DMOADS (Disease Modifying OsteoArthritis Drugs) - Adequan (PSGAGS), Legend (Hyaluronic Acid)
- MODERATE activity
- DIET - joint diets specific for OA with Omega FA and other supplements
- UNDERSTANDING limitations

2) JUVENILE PUBIC SYMPHYSECTOMY (JPS)

- A proactive and preventative procedure.
- Surgical fusion of the pubic symphysis results in dynamic outward rotation of the acetabuli during continued normal growth of the pelvis.
- Dorsal acetabular femoral head coverage and femoral head seating is improved similar to a TPO.
- Requires early recognition and surgical intervention by the age of 3 to 5 months for maximal benefit.

3) TRIPLE PELVIC OSTEOTOMY (TPO)

- A proactive and preventative procedure.
- Surgical osteotomy of the affected hemipelvis with outward rotation by 20 degrees to achieve improved dorsal acetabular coverage and femoral head seating.
- Maintains “normal” anatomy.
- “Window” of opportunity is typically after 6 and before 12 months of age.

4) DARTHROPLASTY

- An autogenous shelf arthroplasty procedure for hips in which TPO is no longer an option due to early OA development, severe subluxation, or advanced age.
- A bone graft from the ilial wing is sutured to the joint capsule of the dorsal acetabular rim to create an extension of the rim and thus provide a weight-bearing surface for hip.
- An alternative to THR or FHO.

5) TOTAL HIP REPLACEMENT (THR)

- The ultimate method by which to replace an osteoarthritic hip (gold standard).
- Surgical removal and replacement of the femoral head (ball) and acetabulum (socket) of the hip joint.
- Several hip systems are available including non-cemented versions.
- Disadvantages of THR include cost and complication potential.

6) EXCISION ARTHROPLASTY (aka: FEMORAL HEAD OSTECTOMY - FHO)

- A versatile option for many different situations and types of patients.
- Surgical excision of the femoral head and neck with soft tissue interposition to create a “false joint”.
- Good surgical technique combined with postoperative physical therapy and rehabilitation can result in excellent outcome and function.

WHEAT RIDGE OFFICE

3695 Kipling St., Wheat Ridge, CO 80033
Tel 303-940-1239 ● Fax 303-420-8360

WESTMINSTER OFFICE

945 W 124th Av, Westminster, CO 80234
Tel 303-350-4733 ● Fax 303-350-4734

BOULDER OFFICE

1658 30th ST, Boulder, CO 80301
Tel 720-974-5802 ● Fax 303-440-0649