



**San Carlos Veterinary Hospital (SCVH)**  
 8618 Lake Murray Blvd.  
 San Diego, CA 92119  
 (619) 460-3100  
 www.sancarlosvet.com

- Dr. Dean R. Gahring, D.V.M; Diplomate, ACVS
  - Dr. Bruce N. Persky, D.V.M.
  - Dr. Stanley P. Kus, M.S., D.V.M.
  - Dr. Laurel Nishida, D.V.M.
- E-mail: info@sancarlosvet.com

## “Mazzy” - TPLO, Triple Pelvic Osteotomy (TPO) and DARthroplasty for Hip Dysplasia



“Mazzy”

Mazzy is a 5-year-old spayed female yellow Labrador/Pit Bull cross with a very sweet personality. She originally came to us with a partially torn *left* cranial cruciate ligament and a possible meniscal click (indicating a partial meniscal tear). She also had an arthritic right hip joint and a positive Ortolani click was elicited (indicating hip joint laxity) in the left hip (Figure 1). Three days later, a Tibial Plateau Leveling Osteotomy (TPLO)

was performed, along with a meniscal release (Figures 2 & 3). She did very well for three months. She then became lame on the right rear leg due to a torn right cranial cruciate ligament.



Figure 2. Pre-operative radiograph of left knee



Figure 3. Radiograph of left knee immediately post-op



Figure 1. Ventro-dorsal radiograph of Mazzy, showing arthritic right hip.

A right TPLO was performed on July 31, 2000 (Figures 4 & 5). The left TPLO plate was removed at the same time because there was some lucency seen around the left plate, even though the TPLO osteotomy was completely united (Figure 6).

Mazzy did well for four more months, but then her left hip began to bother her. Surgeries were discussed, but a decision was made to wait. Then, in early 2001, both hips seemed to alternately be problems, so surgery was scheduled.

Continued



Figure 4. Preoperative radiograph of right knee



Figure 5. Immediately post-operative radiograph of right knee



Figure 6. Radiograph of the left TPLO Arrow points to the lucency around the plate, necessitating plate removal. The TPLO osteotomy was completely united.

Mazzy’s hips were evaluated for surgeries. The right hip still had a large osteophyte (bone spur) and thickened femoral neck, but the left hip looked good (see Figure 2). However, both hips had significant laxity (Figure 7) and the DAR views (Figure 8) showed excessive slopes of the dorsal acetabular rims.

Surgeries were performed on both hips on the same day (with the help of donations from a lot of Mazzy’s friends). A 20-degree Triple Pelvic Osteotomy (TPO) was performed on the left hip to add additional dorsal acetabular support for the femoral head. However, a TPO was not chosen for the right hip because of the concern that the turning of the acetabulum would cause restriction of abduction (movement of the hip away from the body) and because of excessive degenerative (“arthritic”) changes, so a minor DARthroplasty was performed (Figures 9 and 10).



Figure 7. Distraction of the femoral heads indicate excessive hip joint laxity, the main reason surgeries were elected.



Figure 8. DAR view showing excessive slope of the dorsal acetabular rim and poor bony coverage of the femoral heads.



Figure 9. Postoperative lateral radiograph showing left TPO and right DARthroplasty.



Figure 10. Post-operative ventro-dorsal view of TPO (left hip) and minor DARthroplasty (right hip).



# "Mazzy" cont.



The postoperative DAR view (Figure 11) shows the nice new dorsal acetabular rim that was created (the plate obstructs the view of the DAR on the left side). Figures 12 & 13 show Mazzy the day after surgery, bearing almost complete weight on both hips and Figure 16 shows proud "father" Phil with his "daughter" getting ready to go home the day after surgery.

Mazzy's knees are doing very well. Radiographs (Figures 14, 15) show that the joints are quiet and the osteotomies are healed well.



Figure 11. Postoperative DAR view radiograph showing new dorsal acetabular rim of the right hip.



Figures 12 and 13. Mazzy leaving hospital one day after hip surgery. She is bearing almost complete weight on both hips.

Figure 12



Figure 13



Figure 14. Radiograph of healed right knee.



Figure 15. Radiograph of healed left knee.



Figure 16. Mazzy, glad to be goin' home.