2. Literature on computerized surgical systems

Computer Assisted Surgical Devices Panel Literature

The articles below are grouped by subject matter. Article number 1 describes an intra-operative limb holding and positioning device. Articles number 2-6 describe computer controlled surgical planning systems that also hold the patient's anatomy and/or provide aiming information for the surgeon's surgical tools and implants. Articles number 7-l 1 describe computer controlled surgical systems that assist the surgeon in planning a procedure, then hold and robotically shape the bone for implant placement.

1. Masri, B., McGraw, R. & Beauchamp, C.: Robotrac in Total Knee Arthroplasty - The Silent Assistant, Amer. *J.* Knee *Surg.*, Winter 1995, Vol. 8, No. 1, pp. 20-23.

2. Jaramaz, B., DiGioia, A., et *al:* Computer Assisted Measurement of Cup Placement in Total Hip Replacement, *Clin. Ortho. & Rel. Res., No. 354,* pp. 70-81.

3. Julliard, R., Lavallée, S., & Dessenne, V.: Computer Assisted Reconstruction of the Anterior Cruciate Ligament, *Clin. Ortho. & Rel. Res., No. 354,* pp. 57-64.

4. Klos, T., Habets, R., et *al:* Computer Assistance in Arthroscopic Anterior Cruciate Ligament Reconstruction, *Clin. Ortho. & Rel. Res., No. 354,* pp. 65-69.

5. Delp, S., Stulberg, S., *et al:* Computer Assisted Knee Replacement, *Clin. Ortho. & Rel. Res., No. 354,* pp. 49-56.

6. Matsen, F., Garbini, J., *et al:* Robotic Assistance in Orthopaedic Surgery, *Clin. Ortho. & Rel. Res., No. 296,* pp. 178-I 86.

7. Goldsmith, M.: For Better Hip Replacement Results, Surgeon's Best Friend May Be a Robot, *JAMA*, Vol. 267, No. 5, Feb. 5, 1992, pp. 613-614.

8. Bargar, W., Bauer, A., & Börner, M.: Primary and Revision Total Hip Replacement Using the Robodoc® System, *Clin. Ortho. & Rel. Res., No. 354,* pp. 82-91.

9. Fadda, M., Marcacci, M., Toksvig-Larsen, S., *et al:* Improving accuracy of bone resections using robotics tool holder and high speed milling cutting tool, *J. Med. Eng. & Tech,* Vol. 22, No. 6, (Nov/Dec 1998), pp. 280-284.

10. Paul, H., Bargar, W., *et al:* Development of a Surgical Robot for Cementless Total Hip Arthroplasty, *Clin. Ortho. & Rel. Res., No. 285,* Dec. 1992, pp. 57-66.

11. Van Ham, G., Denis, K., Vander Sloten, J., *et al:* Machining and Accuracy Studies for the Tibia1 Knee Implant Using a Force-Controlled Robot, *Computer Aided Surg.*, Vol. 3, pp. 123-133 (1998).