



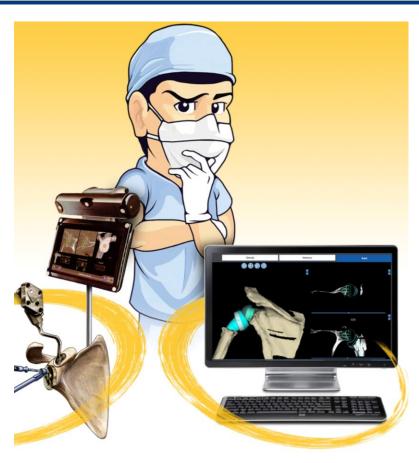
THERMAE DI SALSOMAGGIORE



Elaborazione di un planning chirurgico ottimale in casi complessi: il parere del chirurgo

R. Rotini Bologna







CASO COMPLESSO IN ORTOPEDIA

- * Esperienza del singolo chirurgo
- * Conoscenza dello strumentario
- * Deformità e perdita ossea

FONDAMENTALE L'AIUTO DEL PLANNING PREOPERATORIO





CASI COMPLESSI

- * Chirurgia Oncologica
- * Chirurgia sostitutiva protesica
- * Chirurgia correttiva nelle deformità ossee









Gentile concessione Dr. Bianchi Giuseppe

Casi complessi nella Protesica Spalla

Esperienza personale

2014

2016

2018

Patient specific instrument P.S.I.

Simulazione in 3D Pre-op

Studio 3D + Navigatore GPS







1) METODO P.S.I. (2014)

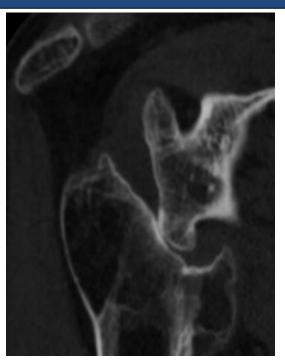


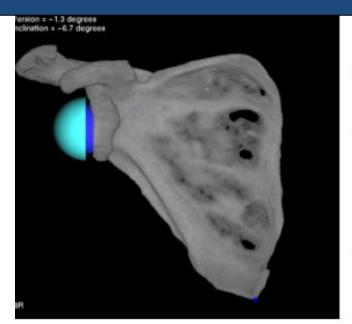
G.M. 50 a.

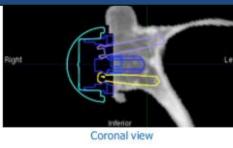


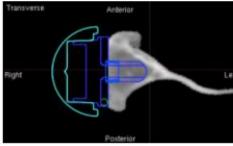
2014

METODO P.S.I. (Patient specific instrument)

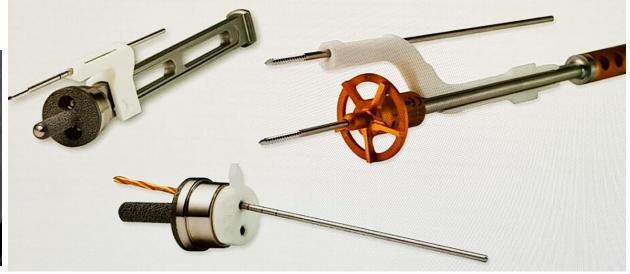




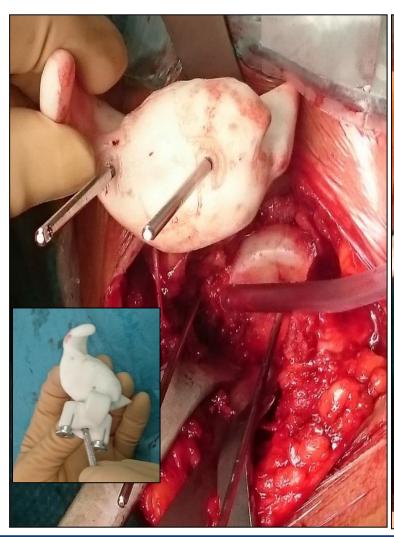




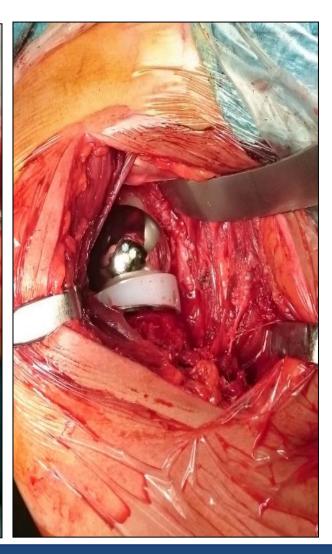




METODO P.S.I. (Patient specific instrument)



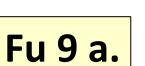




METODO P.S.I. (Patient specific instrument)

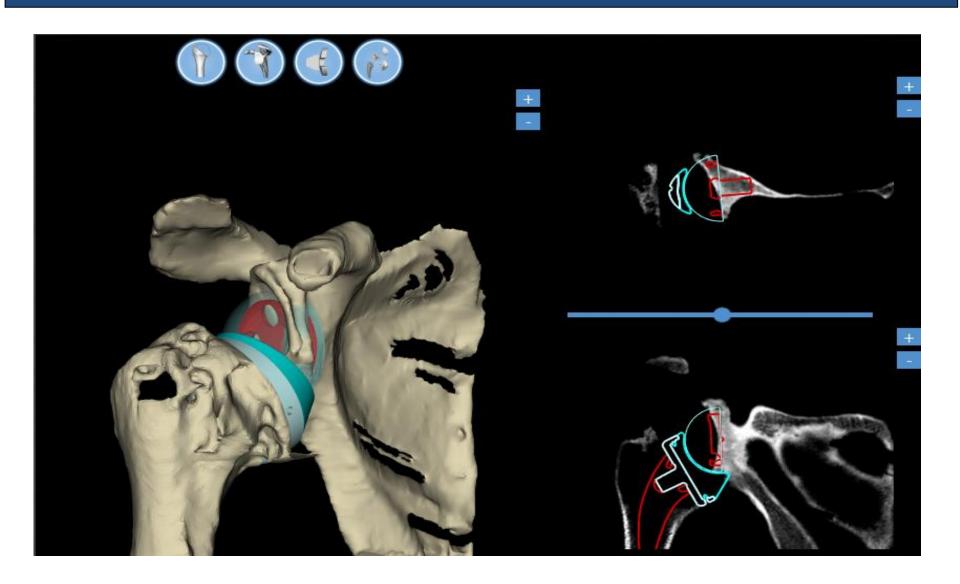


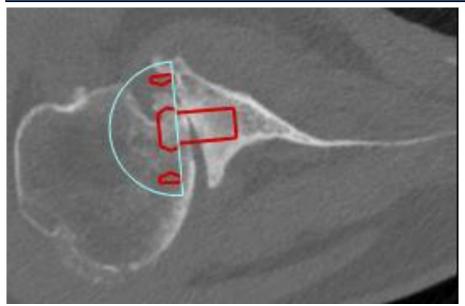




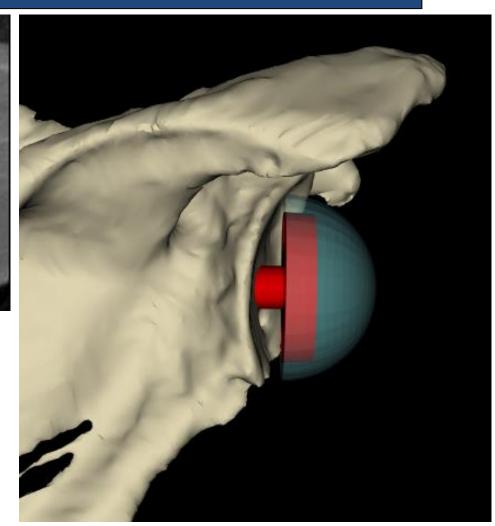


2) Simulazione su computer (2016)

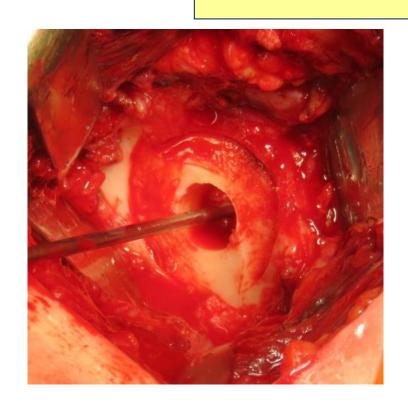


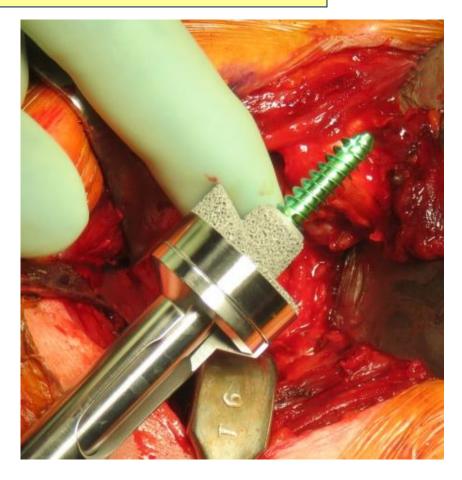


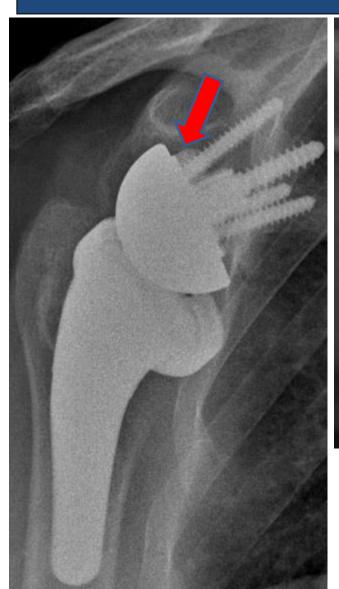
Valutazione perdita ossea posteriore



Half wedge e vite

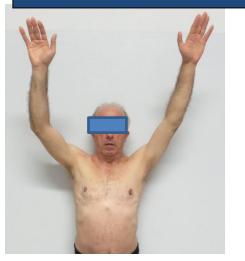




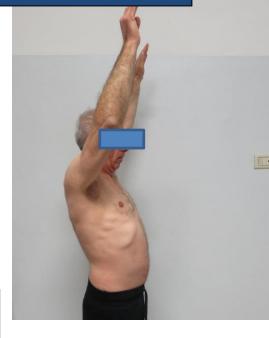




RX dopo 6 a.





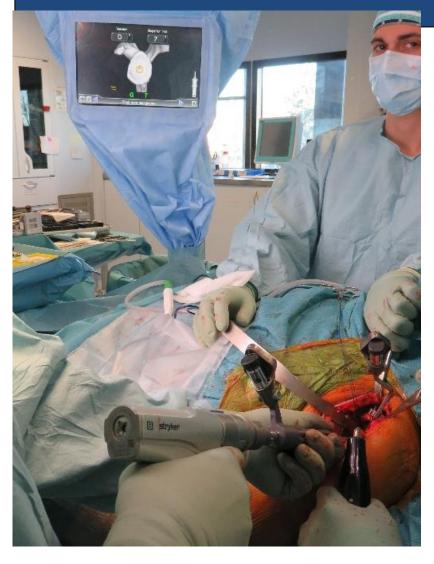




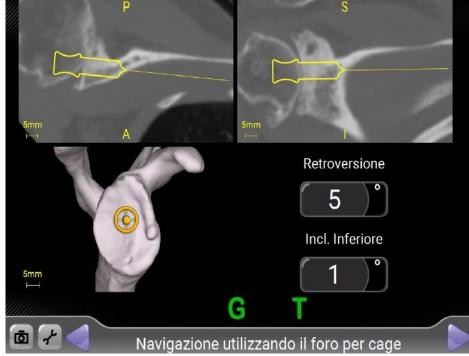


f.u. 6 a.

3) METODO Navigatore GPS (2018)

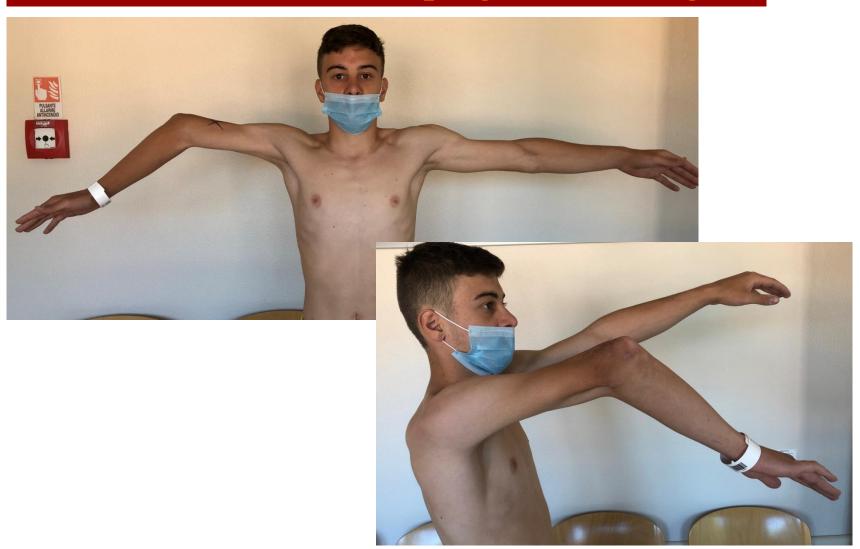




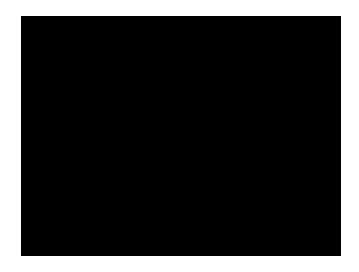


Casi complessi in deformità articolari

P.F. 16 a. Malunione 3 pregresse chirurgie



Casi complessi in deformità articolari



Animazione chirurgia virtuale

Chirurgia correttiva di deformità

3 step preoperatori:

*Tac bilaterale

*Guide di taglio

*Simulazione su modello 3D



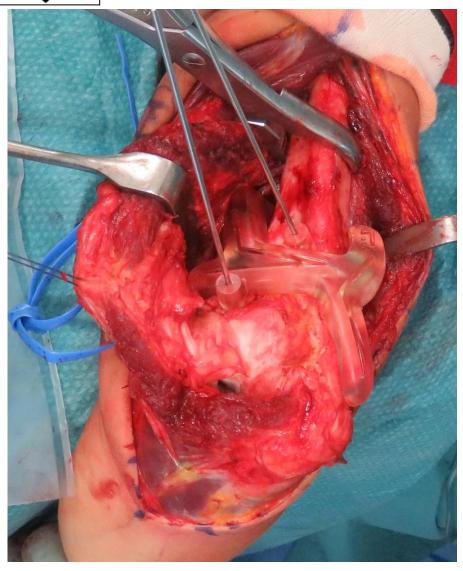


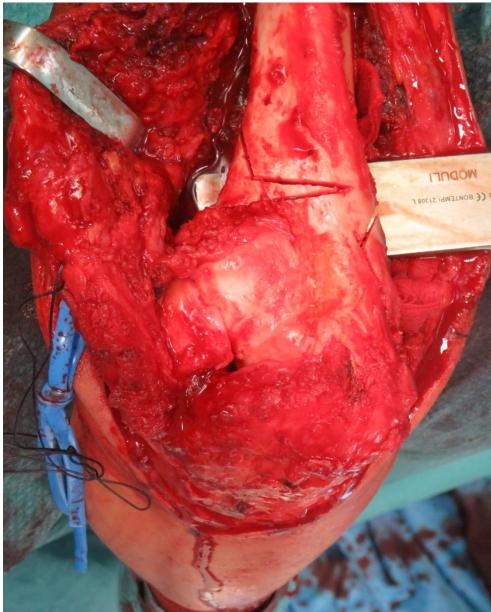






Chirurgia correttiva di deformità

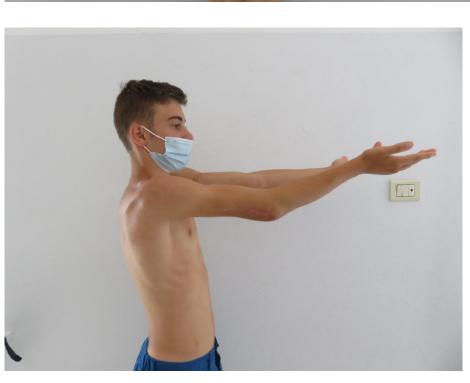






45 gg dopo intervento



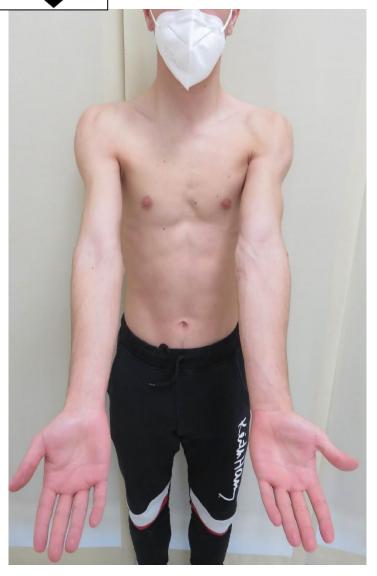








2 anni dopo intervento











Conclusione : Sistemi computer assisted

- *Utili in casi di perdita ossea
- *Necessaria curva di apprendimento per ridurre rischi di cattiva utilizzazione
- *Facilita al chirurgo ricostruzione mentale 3D
- *Aumento costi: Contenuto



