

Abstract

Elderly people come up against a hip fracture after misstepping and eventually falling . Two main types of hip fracture exist : 1) intracapsular(supcapital or pipkin) and 2) extracapsular of intertrochanteric region. A 70year old woman- previously undergoing a bariatric surgery and its malabsorption consequences , such as serious neuromuscular deficiency- presented in our clinic with a 40-days left intertrochanteric fracture misdiagnosed as chronic backache .A quick review , revealed a fall and afterwards constant pain and inability of weight bearing . Patient was then -efficiently and effectively- treated with total hip arthroplasty (THA) with constrained liner . THA consists of femoral stem prosthesis, acetabular component and baring surfaces Contrained liner is a metal ring that holds femoral head captive in the socket so the patient has less range of motion. This technique is preferable to avoid easier component's dislocation when neuromuscular comorbidities, dementia or deficient abductor mechanism exist. Normally, intramedullary nailing or ORIF with sliding hip screw are first option managements. Final evaluation reveals better outcome. Harris hip score : before the fall (84%), directly after the fall (35,65%), one month post operatively (58,30 %), 6 months post op (66,5%). Barthel score : entry (20%), exit (65%). FIM score : entry (73%) , exit (97%). These, estimate patient's pain and daily functional independence. Proximal femur fractures are up to 10 % occult on radiograph . Specialists must have a high index of suspicion , take a good patient history ,make a careful examination and question upon the way of managing it. It is not mandatory for a fracture to be treated as it is usually be done. It depends on the patient and her/his special needs.

Su, Edwin P MD; Pellicci, Paul M MD. The Role of Constrained Liners in Total Hip Arthroplasty. The Association of Bone and Joint Surgeons .March 2004 - Volume 420 - Issue - p 122-129

Jay Swayambunathan, BS; Abhijit Dasgupta, PhD; Philip S. Rosenberg, PhD; Marian T. Hannan, DSc, MPH; Douglas P. Kiel, MD, MPH; Timothy Bhattacharyya, MD. Incidence of Hip Fracture Over 4 Decades in the Framingham Heart Study. JAMA Intern Med. 2020;180(9):1225-1231

Alicia Mangram, Phillip Moeser, Michael G Corneille, Laura J Prokuski, Nicolas Zhou, Jacqueline Sohn, Shalini Chaliki, Olakunle F Oguntodu & James K Dzandu. Geriatric trauma hip fractures: is there a difference in outcomes based on fracture patterns?. World Journal of Emergency Surgery. 9, Article number: 59 (2014)

FRAGILITY FRACTURE DUE TO METABOLIC DISORDER AFTER BARIATRIC SURGERY PROCEDURE : Total hip replacement with constrained liner as definite management

Introduction

- trauma
- The majority of them occur in individuals who have less marked reductions in bone mass or normal BMD
- A patient with a fragility fracture is at high risk of experiencing secondary fractures in the first **two** years following the initial fracture
- wrist

Low BMD causes

Georgia Kanellopoulou, Konstantinos Christopoulos

Orthopaedic Dept., General Hospital of Kalamatas, Messinia, Greece

• Fragility fractures result from low energy

• Frequent fracture localization : hip , spine,



Methodology

- intertrochanteric hip fracture
- criteria for IM-nailing and ORIF
- Option for treatment : THA with constrained liner and fixation of great trochanter with wire
- Duration of follow-up : 6 months





70-year old woman with 40 – days neglected Bariatric surgery and consequences : exclusion



