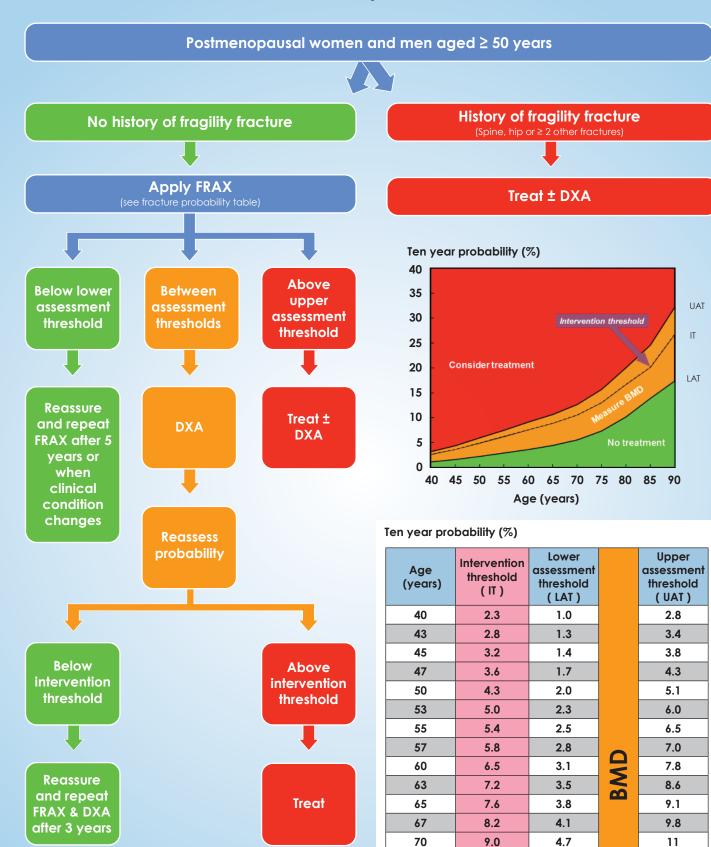


Kuwait Osteoporosis Guidelines 2018

FRAX Based Kuwait Osteoporosis Guidelines - 2018



5.5

6.2

7.0

8.5

FRAX Based Kuwait Osteoporosis Guidelines - 2018

Fracture risk elevated based on FRAX assessment ± DXA scan

History of fragility fracture (Spine, hip or ≥ 2 other fractures)

1

NON PHARMACOLOGICAL:

- 1) Discontinue/limit smoking, alcohol, excess caffeine.
- 2) Weight-bearing exercises 30 minutes/day (walking, jogging, dancing, strength/resistance training).
- 3) Measures to reduce the risk of falling.
- 4) Use hip protectors in individuals with high risk of falling.

PHARMACOLOGICAL:

- 1) Treat vitamin D deficiency if present & maintain on 50,000 IU/month or equivalent dose to achieve Serum 25-OH vitamin D level between 75-150 nmol/L.
- 2) Maintain on calcium 1200 mg/day (preferably through diet, if not then through supplements).
- 3) One-Alfa should only be used in cases of chronic renal impairment and hypoparathyroidism.



Combination therapy is not advised

Teriparatide (Forteo)

20 mcg s/c daily for 18 - 24 months (once in a lifetime) Evidence for Fracture Risk Reduction

Vertebral Nonvertebral Hip Men

↓ NAE ✓

NEA: Not Adequately Evaluated

Contraindication to PTH:

- Hypercalcemia
- Hyperparathyroidism
- Skeletal malignancy
- Paget's disease
- Radiation therapy

Treatment should be followed by an antiresorptive agent

TREATMENT MONITORING

- Repeat DXA every 2 years on same machine & if possible with same technologist.
- Monitor changes at lumbar spine, total hip BMD. Compare BMDs and not T-scores.

TREATMENT ASSESSMENT

TREATMENT FAILURE

- 1) Declining BMD
- 2) Occurrence of >1 fragility fracture

Rule out:

- Non adherence
- Secondary causes including medications

TREATMENT SUCCESS

- 1) Stable or increasing BMD
- 2) Absence of fragility fractures

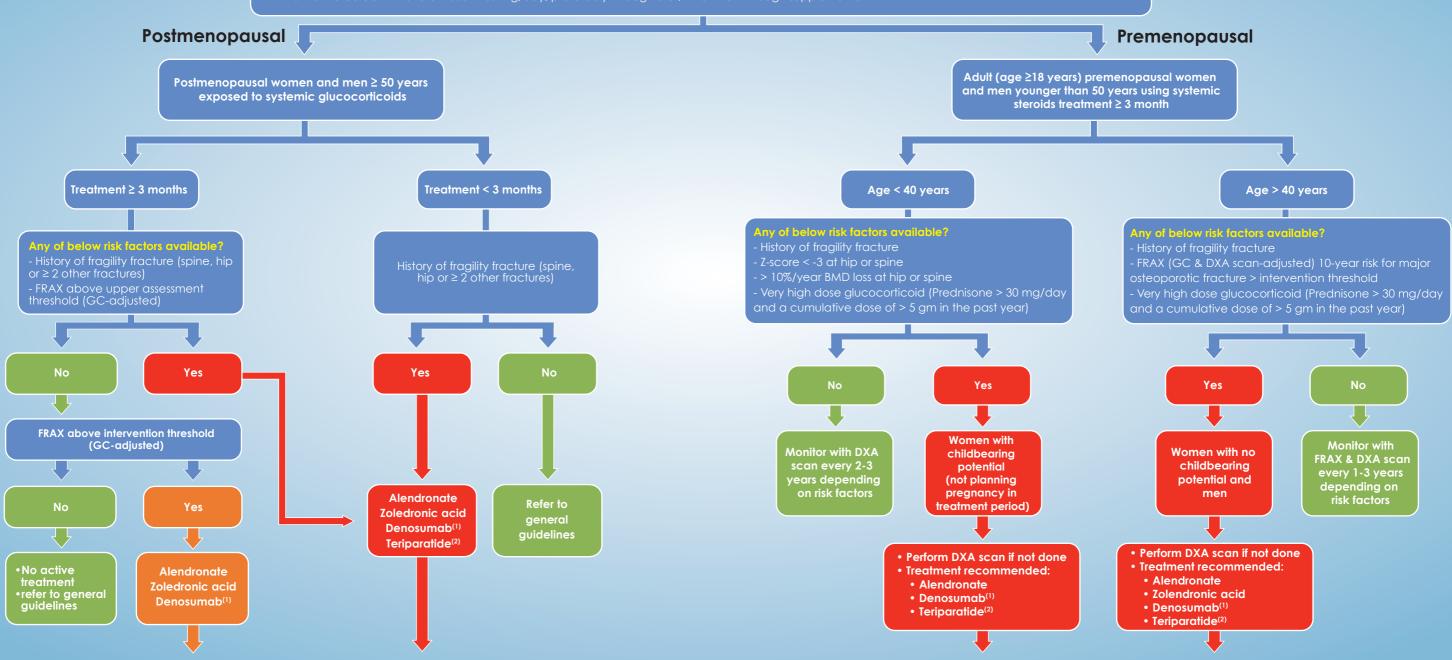
Management of Glucocorticoids Induced Osteoporosis

INITIAL EVALUATION

- History and physical examination.
- Height and weight measurements
- Laboratory tests: CBC + ESR, RFT, LFT, mineral profile, ALP, PTH-I, TFT, 25OH Vitamin D ± Gonadal hormones

- Reduce dose and/or change route of glucocorticoids when possible and consider glucocorticoid sparing therapy.

- Smoking and alcohol cessation and limitation of caffeine to < 3 cups/day.
 Weight-bearing exercises 30 minutes/day (walking, jogging, dancing, strength/resistance training).
 Treat vitamin D deficiency if present and maintain on an equivalent dose of 1000 IU/day to achieve serum 25-OH vitamin D level between 75-150 nmol/L.
- Maintain a calcium intake of 1000-1200 mg/day, preferably through diet, if not then through supplements.



FOLLOW UP MEASURES

- Height measurement every 6-12 months with prospective height loss ≥ of 2 cm, consider vertebral fracture assessment (VFA) or plain x-rays.
- Vitamin D measurements every 6-12 months.
- If glucocorticoids continued, repeat DXA scan after every 1-3 years.
- Assessment of new fractures (ribs and vertebrae).
- Active pharmacological treatment should be continued until no further exposure to glucocorticoid.
- For adults > 40 years, DXA scan should be done every 2-3 years after glucocorticoids and osteoporosis treatment has been discontinued.



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INDICATIONS FOR VERTEBRAL IMAGING

Consider vertebral imaging tests, by Vertebral Fracture Assessment (VFA) or lateral thoracic and lumbar spine x-ray, in the following individuals:

- In all women age 70 and older and all men age 80 and older.
- In women and men age >50 with specific risk factors:
 - Low trauma fracture
 - Historical height loss of 4 cm or more
 - Prospective height loss of 2 cm or more
 - Recent or ongoing long term glucocorticoid treatment

Adopted from the National Osteoporosis Federation 2013

