

**Vertebral augmentation
for osteoporotic vertebral fractures**
Indications and timing

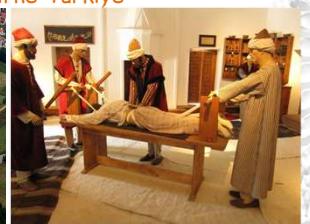
**Osteoporotik umurtqa pog'onasi sinishi
uchun vertebrani ko'paytirish**
Ko'rsatkichlar va vaqt

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10th Congress of Traumatologist and Orthopedics of the Republic of Uzbekistan. 21-22 October 2022. Hotel Respublik TASHKENT

Edirne-Türkiye

Sultan Bayezid II Facility Complex and Medical School (1488 AD)
Sultan Bayezid II majmui va tibbiyot bilim yurti (milodiy 1488)

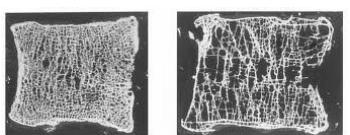
Last 30 years in spine surgery
*Orqa miya jarrohligidagi so'nngi 30 yil
muhim texnologiyalar*

- Pedicle screws
- Vertebro/kyphoplasty
- Lateral surgery

Recently:

- Dynamic stabilization
- Endoscopy
- Navigation/robotics

Osteoporosis

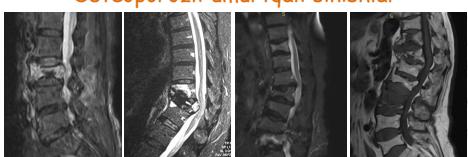


T-score

• 2.5/-1 SD	Normal
• -1/-2.5	Osteopenia
• <-2.5	Osteoporosis



Osteoporotic vertebral fractures
Osteoporozli umurtqali sinishlar

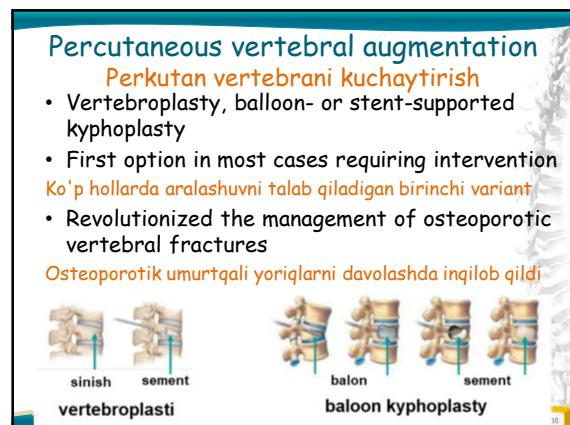
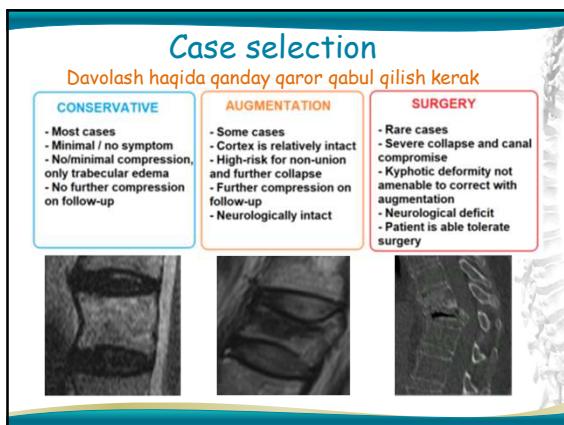
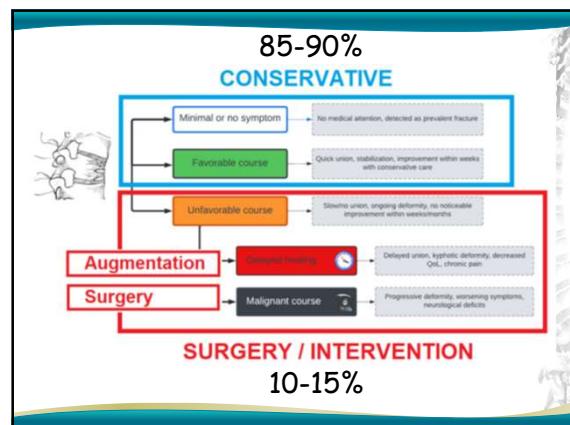
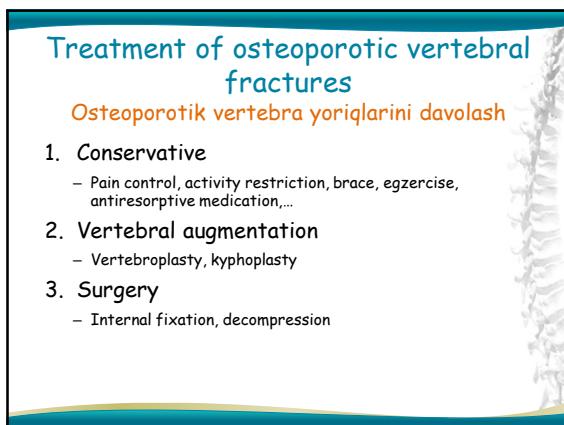
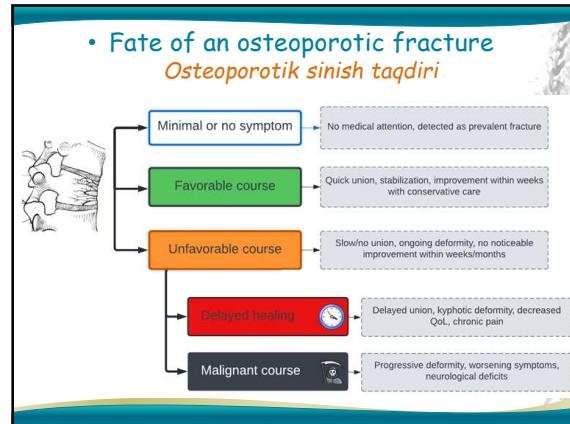
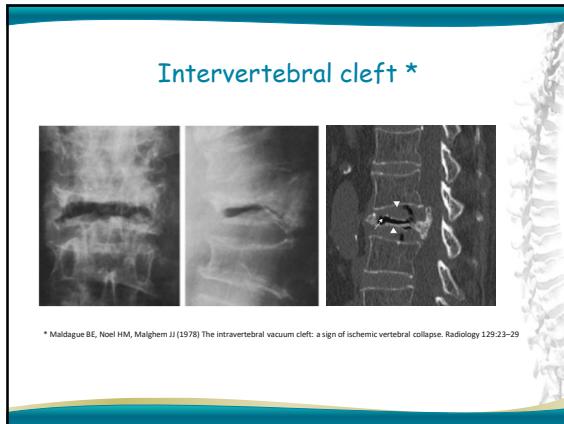


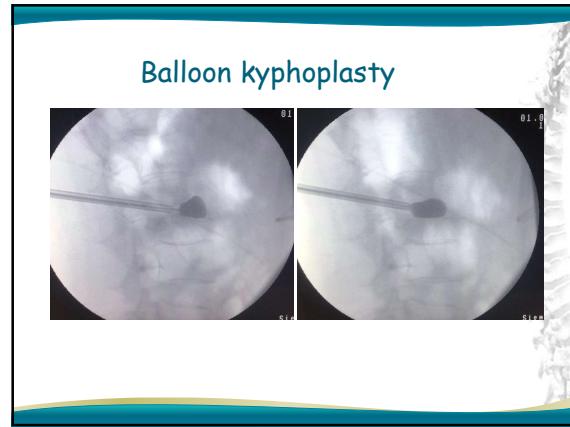
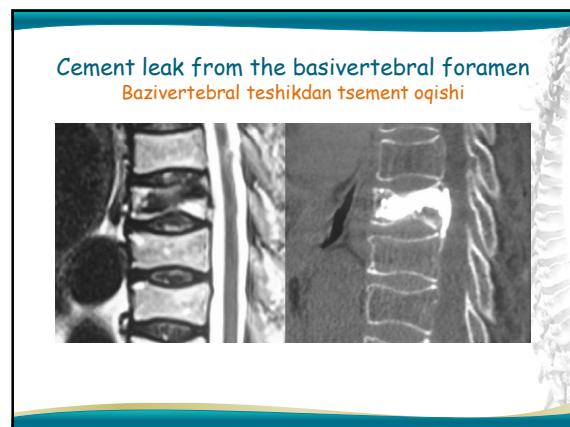
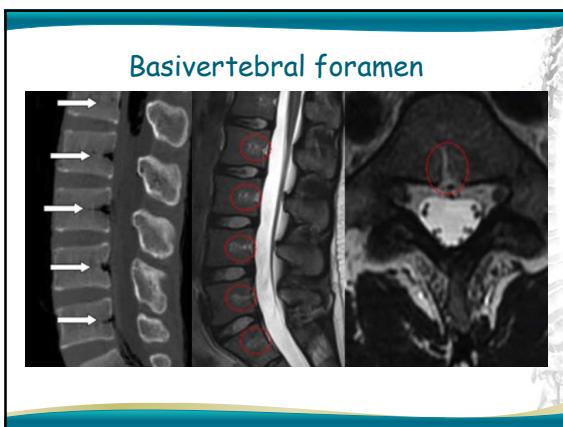
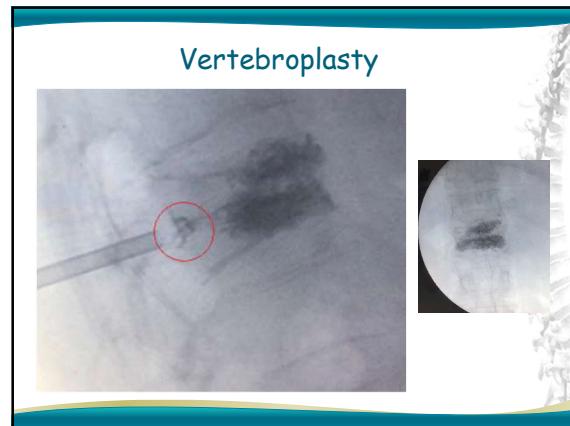
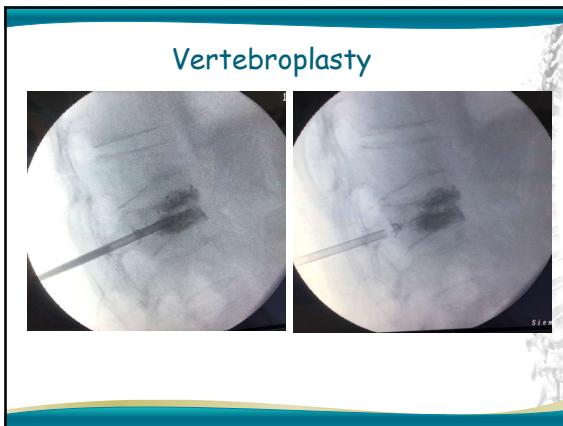
- A major healthcare problem in aging world
 - Prevalence **Tarqalishi** is up to 20%
- No standard of care - **Xizmat standarti yo'q**
- The majority of patients are **treated based on the experience of attending physician**

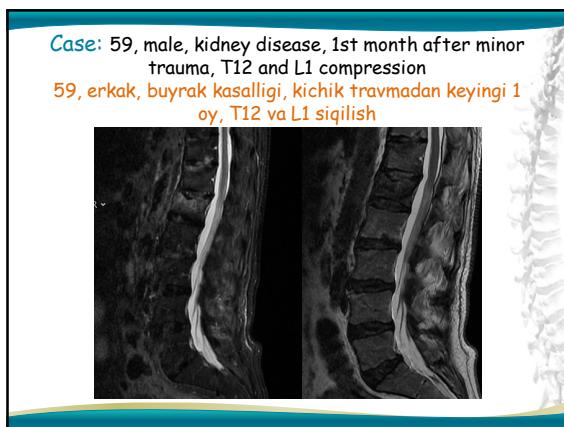
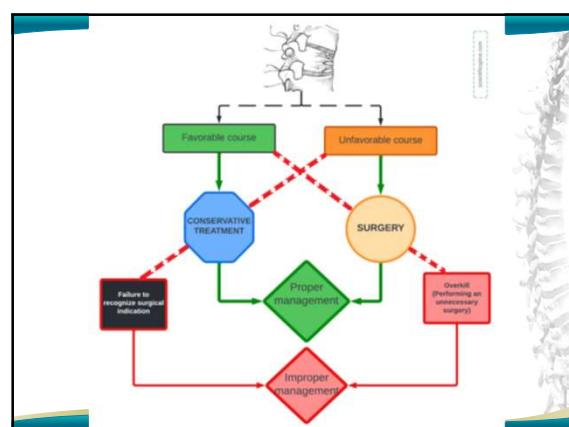
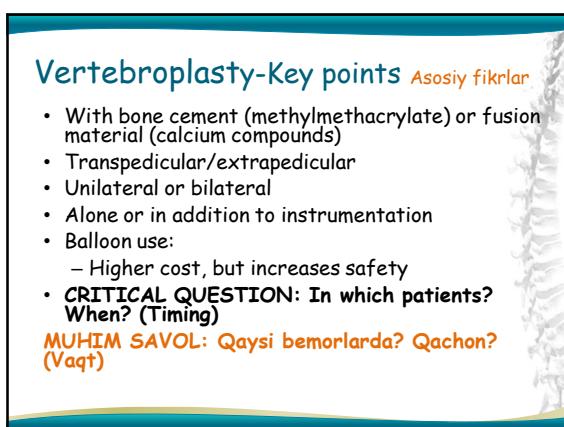
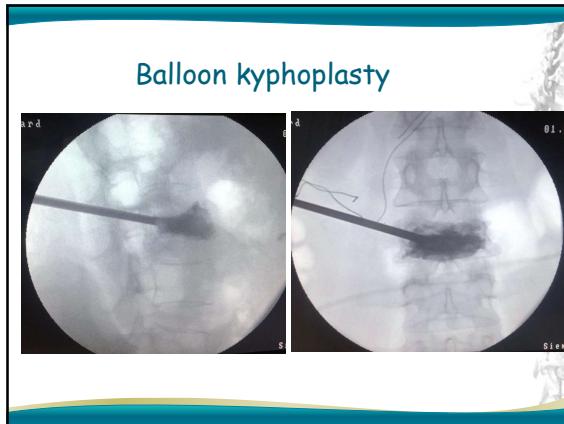
Prognosis

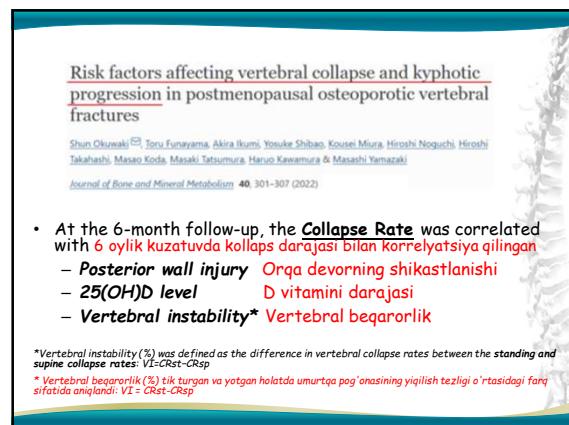
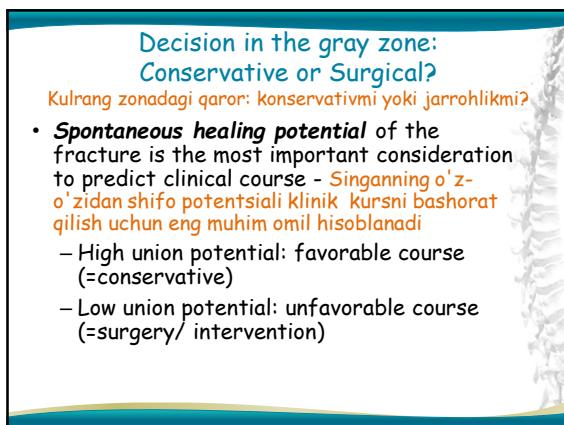
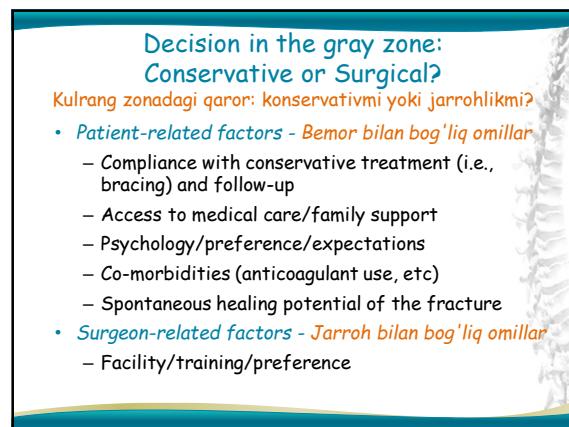
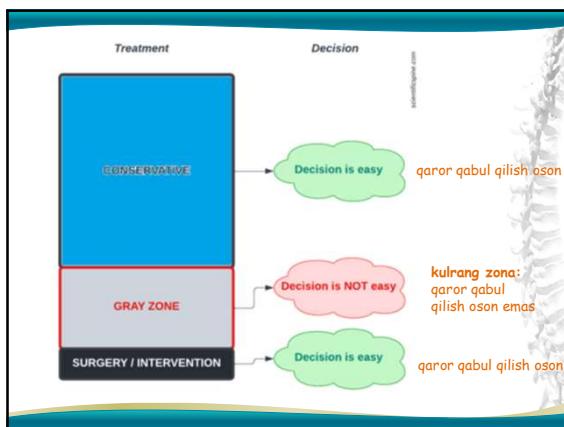
- In most patients, the fracture starts to heal and the collapse does not progress
- ~ 15% of patients, conservative treatment fails:
 - Bemorlarning 15% konservativ davo muvaffaqiyatsizlik uchraydi**
 - Ongoing pain, kyphotic deformity, risk of neurological deficit

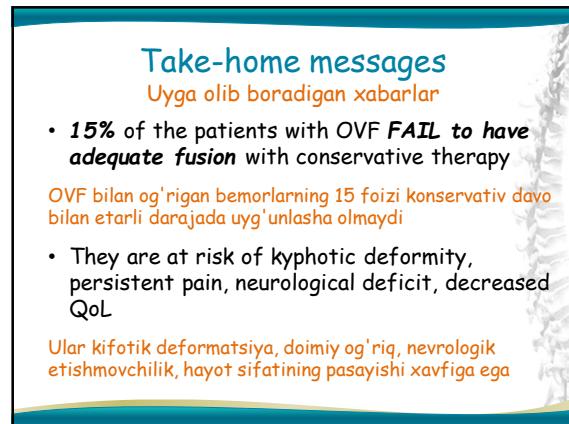
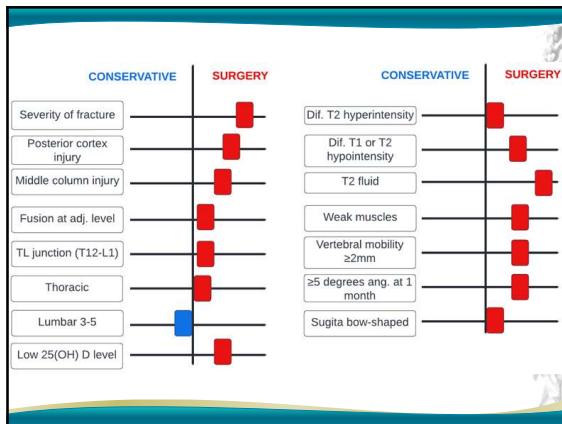
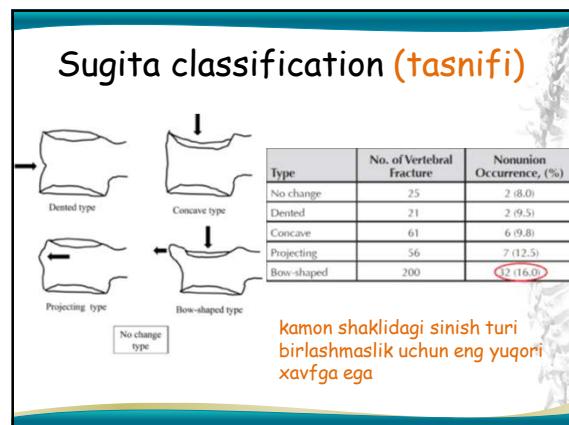
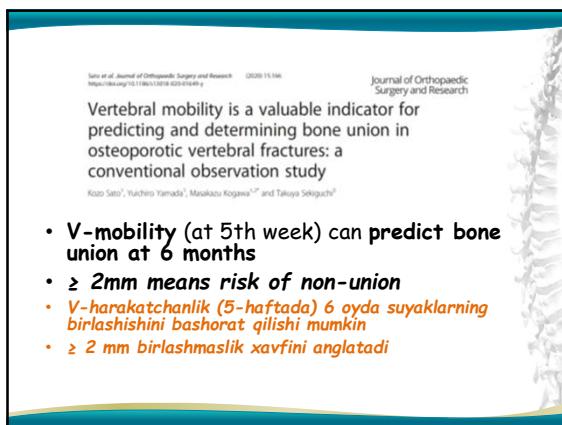
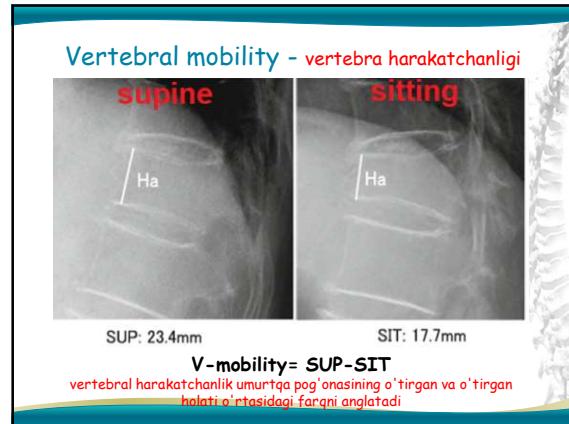
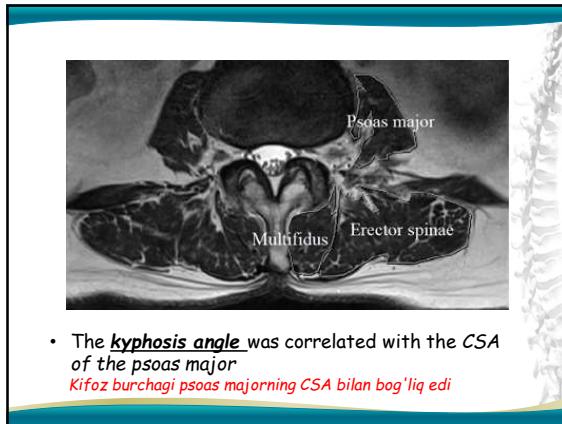












Take-home messages
Uyga olib boradigan xabarlar

- If poor prognostic signs (for spontaneous fusion) are detected, surgery/intervention may be indicated

Agar yomon prognostik belgilar (spontan sintez uchun)
aniqlansa, jarroqlik/aralashuv ko'rsatilishi mumkin

CONSIDERATIVE	SUMMARY	CONSIDERATIVE	SUMMARY
Swelling of fusion	✓	DF 10 hyperflexion	✓
Prominent vertebra	✓	DF 11-12 hyperflexion	✓
Medio-lateral shift	✓	Weak muscles	✓
Posterior sl. of H.	✓	Ventral mobility	✓
T1-Lumbar (T12-L1)	✓	10 degrees incl of L	✓
Hunchback	✓	Sagittal bone unif.	✓
Lumbar S/S	✓		
Low DDD/DI level	✓		

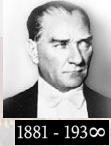
There are 15 to 20 clinical and radiological prognostic signs to predict a failed fusion

Muvaffaqiyatsiz sintezni bashorat qilish uchun 15 dan 20 gacha klinik va radiologik prognostik belgilar mavjud

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TRAVMATOLOGIYA VA ORTOPEDIYA
ILMIY-AMALIY TIBBIYOT MARKAZI DM

REPUBLICAN SPECIALIZED SCIENTIFIC AND
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TRAUMATOLOGY AND ORTHOPEDICS

...E'tiboringiz uchun tashakkur.



1881 - 1930

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10th Congress of Traumatologist and Orthopedics of the Republic of Uzbekistan, 21-22 October 2022, Hyatt Regency Hotel, TASHKENT