

DRUG-RELATED

OSTEONECROSIS OF THE JAW

INFORMATION FOR PATIENTS

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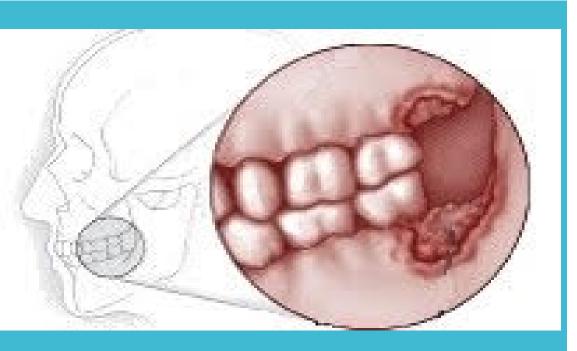












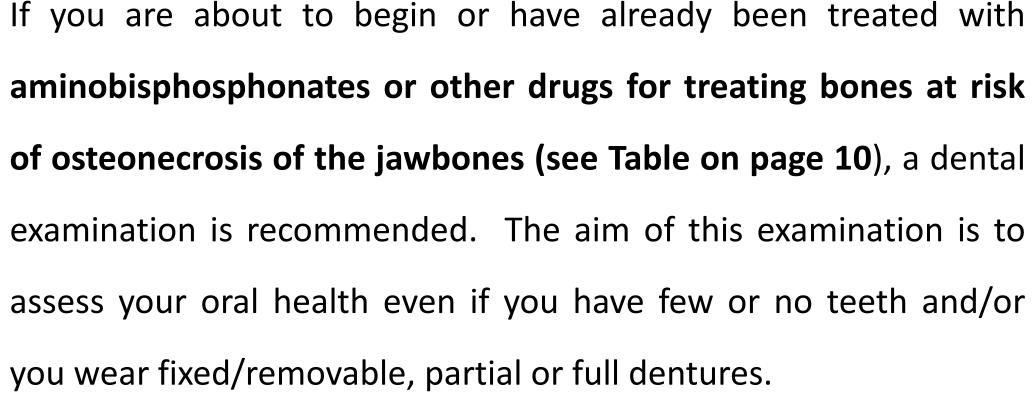








Dear Patient

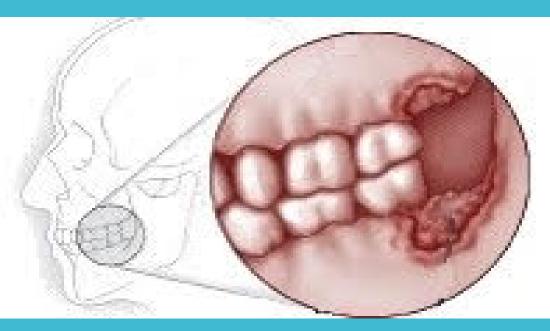


When you see your dentist or if you are already being/were treated with drugs which put you at risk of drug-related osteonecrosis, it is very important for you to communicate this to your dentist/doctor.









It is necessary to pay particular attention to looking after your teeth

and gums, especially if you have taken or are taking

bisphosphonates or other drugs for treating bones. These drugs

can have undesirable effects on your oral health, including

osteonecrosis of the jaw (ONJ). This complication can occur

spontaneously or after invasive procedures, including dental

extractions.

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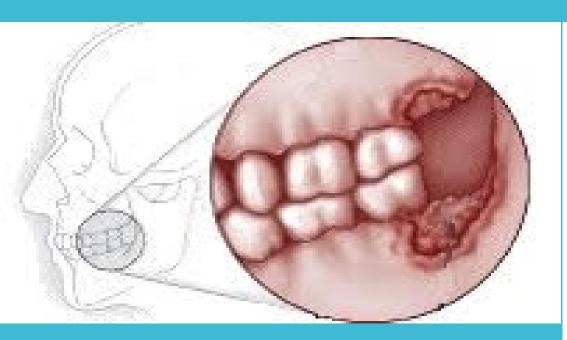


Assessorato Salute



Osteonecrosis of the jaw may not show any symptoms for weeks, months or years or it can appear with **pain**, **bone exposure** and/or **swelling** of either the mandible or the maxilla (the 2 jawbones).





be made via a simple examination of the oral cavity. However, an X-ray is necessary to confirm diagnosis. Your doctor/dentist will, therefore, suggest one or more of the following tests:

In the majority of cases a diagnosis of osteonecrosis of the jaw can

orthopantomography

an intraoral X-ray

computerised conebeam tomography

a dental scan

a CAT scan of the facial skeleton

oral and maxillo-facial magnetic resonance imaging

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SIGNS AND SYMPTOMS OF OSTEONECROSIS OF THE JAW

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Bleeding, swelling or infection of the gums

Localised pain of the maxilla (upper jawbone) or mandible (lower jaw bone),

generally resistant to common anti-inflammatory drugs

Swelling of the soft tissue and face

Intra- and extraoral **fistualae** (holes) with pus

Loose and/or loss of teeth

Bad breath (halitosis)

Difficulties in maintaining oral hygiene and eating

Weight loss (often determinant)

Difficulties with speaking, eating and opening the mouth

Sensation of numbness and a heavy lower jawbone

Fracturing and loss of small bone parts

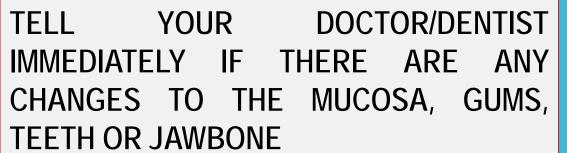
Wounds on the gum which do not heal

Exposure of the maxilla (upper jawbone) or mandible (lower jawbone)









HOW TO AVOID OSTEONECROSIS

if you have still not taken any of the drugs in

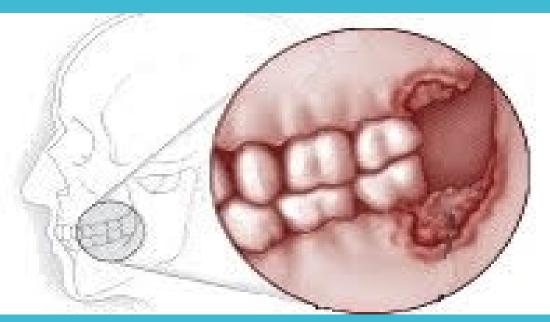
the Table DRUGS ASSOCIATED AT RISK OF OSTEONECROSIS OF THE JAWBONE on page 8

Ask your dentist for a panoramic X-ray of the dental arches and have a dental check-up to ensure your oral health. Tell your dentist/doctor that you are going to start treatment with drugs which could put at risk your oral health.

If your dentist considers it appropriate to perform **teeth extractions**, remember that treatment with drugs related to ONJ can only be commenced when the post-extraction site has completely healed (approximately 3 weeks from the last extraction).

Ask your dentist for advice about effective dental care at home (correct tooth brushing, use of floss and tongue hygiene).

All other dental treatment, not directly involving bone tissue (eg. treating carious lesions, root canal treatment, prosthetic treatment, periodontal mechanical therapy) can be performed after commencing treatment with drugs which you put you at risk of developing osteonecrosis.



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HOW TO AVOID OSTEONECROSIS

If you are taking or have taken in the past

drugs associated with a risk of osteonecrosis (see the Table DRUGS

ASSOCIATED AT RISK OF OSTEONECROSIS OF THE JAWBONE on page 8)

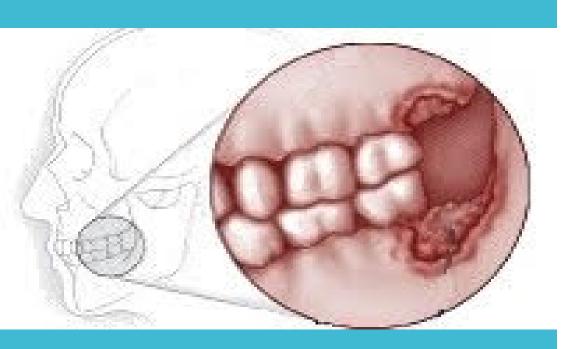
Ask your dentist for a panoramic X-ray of the dental arches and have a dental check-up to assess your oral health. Tell your dentist/doctor that you are taking or have taken **aminobisphophonates or another drug related to ONJ** (specify the trade name or molecule). If your dentist considers it appropriate to perform **teeth extractions**, your doctor may consider **suspending drug treatment**.

Ask your dentist for advice about effective dental care at home (correct tooth brushing, use of floss and tongue hygiene).

All other dental treatments not directly involving bone tissue (eg. treating carious lesions, root canal treatment, prosthetic treatment, periodontal

WARNING!!

IN CASE OF INVASIVE DENTAL PROCEDURES, ASK YOUR DENTIST TO SPEAK WITH YOUR DOCTOR!!



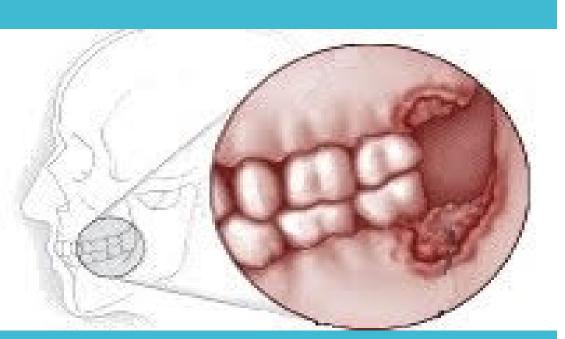








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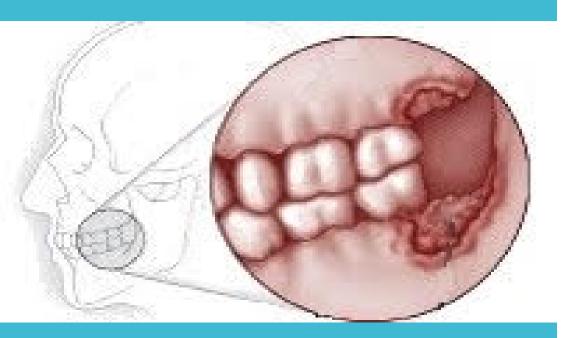
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WHAT ARE	WHAT THEY ARE USED FOR
Alendronic acid	✓ Treatment of post-menopausal osteoporosis
(Alendronate)	✓ Treatment of osteoporosis in men at high risk of fractures
	✓ Treatment and prevention of glucocorticoid-induced osteoporosis
Ibandronic acid	✓ Prevention of skeletal events in patients with breast cancer and bone metastases
(lbandronate)	✓ Treatment of malignant hypercalcemia
	√ Treatment of post-menopausal osteoporosis in patients at high risk of fractures
Neridronic acid	✓ Treatment of osteogenesis imperfecta
(Neridronate)	✓ Treatment of Paget's disease of bone
Pamidronic acid	✓ Prevention of skeletal events in patients with breast cancer and bone metastases/multiple myeloma with bone lesions
(Pamidronate)	✓ Treatment of malignant hypercalcemia
Risedronic acid	✓ Prevention of skeletal events in post-menopausal osteoporosis
(Risedronate)	✓ Treatment of osteoporosis in men at high risk of fractures
(visculousie)	✓ Prevention of skeletal events in patients with prolonged corticosteroid post-menopausal systemic therapy
Zoledronic acid	✓ Prevention of skeletal events in patients with prolonged controsserous post-menopausar systemic therapy ✓ Prevention of skeletal events in patients with solid tumors with bone metastases
(Zoledronate)	✓ Treatment of neoplastic hypercalcemia
(20ledronate)	✓ Treatment of multiple myeloma
	✓ Treatment of moluple myeloma ✓ Treatment of post-menopausal osteoporosis
	✓ Treatment of osteoporosis in men at high risk of fractures, including those with a recent low-trauma hip fracture
	✓ Treatment of Paget's disease of bone
Etidronic acid	✓ Treatment of Paget's disease of bone
Clodronic acid	
Cloaronic acid	✓ Treatment of post-menopausal osteoporosis
	✓ Treatment of multiple myeloma
	✓ Treatment of neoplastic osteolysis
Denosumab	✓ Treatment of primary hyperparathyroidism
	✓ Treatment of post-menopausal osteoporosis and treatment of men at high risk of fractures
	✓ Treatment of bone loss associated with hormone ablation therapy in men with prostate cancer and increased risk of fractures
	✓ Prevention of skeletal complications in adults with bone disseminated solid tumors
Sunitinib	✓ Treatment of renal cell carcinoma (RCC)
	✓ Treatment of gastrointestinal stromal tumors (GIST)
	✓ Treatment of primitive neuroectodermal tumor (pNET)
Sorafenib	✓ Treatment of hepatocellular carcinoma (HCC)
	✓ Treatment of renal cell carcinoma (RCC)
Cabozantinib	✓ Treatment of medullary thyroid carcinoma
	✓ Treatment of renal cell carcinoma (RCC)
Bevacizumab	✓ Treatment of metastatic breast cancer
	√ Treatment of metastatic colorectal cancer (mCRC)
	✓ Treatment of small cell lung cancer (NSCLC)
	✓ Treatment of glioblastoma
	✓ Treatment of metastatic renal cell carcinoma (mRCC)
Aflibercept	✓ Treatment of metastatic colorectal cancer (mCRC)
Everolimus	✓ Treatment of metastatic breast cancer
	✓ Treatment of renal cell carcinoma (RCC)
	✓ Treatment of pancreatic neuroendocrine tumor
Temsirolimus	✓ Treatment of advanced renal cell carcinoma (RCC)
	✓ Treatment of mantle cell lymphoma













If you want, contact italian local public health offices regarding an initial examination for drug-related ostenonecrosis

www.sipmo.it/wp-content/uploads/2016/05/strutture-sanitarie-2016.pdf

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