

Onderbouwend

Thalidomide + Zoledroninezuur/Pamidroninezuur

Stof

M1149

Code

ONJ = osteonecrosis of the jaws

Overig: effect op nier	Stof	Effect	
SPC Zometa, Pamipro	thalidomide + zoledroninezuur, pamidroninezuur	voorzichtig bij combinatie met thalidomide bij multipel myeloom vanwege verhoging van het risico op renale dysfunctie. Bijwerkingen: bij 1-10% stijging van de creatinine- en	
Spencer A. BMC Clin Pharmacol 2008;8:2.	thalidomide + zoledroninezuur	ureumconcentratie. In myeloma patients receiving maintenance therapy, the combination of zoledronic acid and thalidomide appears to confer no additional renal safety risks over zoledronic acid alone. No significant differences by Wilcoxon rank-sum statistic were found in zoledronic acid pharmacokinetics or renal safety for up to 16 months in patients randomized to thalidomide or not. Regime: zoledroninezuur 4 mg iv elke 4 weken + prednisolon + thalidomide 100-200 mg/dag (n=12); zoledroninezuur + prednisolon zonder thalidomide (n=12); totaal 24 patienten met myeloma in a trial of maintenance therapy.	
Jones SG. Br J Haematol 2002;119:576- 7.	thalidomide + zoledroninezuur	toename creatinine en hypocalciemie na switch van pamidro ninezuur naar zoledroninezuur bij 2 myeloom patiënten die tevens thalidomide gebruikten. Nadere studie nodig of dosisaanpassing zoledroninezuur nodig is bij myeloompatiënten met verminderde nierfunctie.	
Werkgroep Geneesmiddelen bij verminderde nierfunctie	zoledroninezuur	bij verminderde nierfunctie is dosisverlaging noodzakelijk	

Effect

Overig: effect op ONJ	Stof	Effect
Aragon-Ching JB. Cancer Invest 2009;27:221- 6.	thalidomide + bisfosfonaten	The incidence of ONJ in patients who have been treated with bisphosphonates for non-malignant conditions had been around 0.8%. Although the incidence is variable among prostate cancer patients, it had been reported to occur around 6.5%. We reviewed the medical and dental records of 11 patients (metastatic prostate cancer) who developed ONJ out of 60 participants enrolled in a phase II clinical trial of bevacizumab, thalidomide, docetaxel, and prednisone (ATTP) for the treatment of mCRPC. Auteurs: another theory for the development of ONJ is the inhibition of capillary angiogenesis. ZA has been shown to exhibit anti-angiogenic properties in in vitro studies. We hypothesize that coupled with known anti-angiogenic therapies such as bevacizumab and thalidomide, the effects of ZA on avascularization may be enhanced, accounting for the high rate of ONJ in our patients.

Pozzi S.	thalidomide +	Over a period of 28 months, we observed 5 cases of ONJ in			
Leuk Lymphoma 2007;48:56-	zoledroninezuur	cancer patients treated with bisphosphonates (BP) at our			
64.	pamidroninezuur	institution.			
		Retrospective analyse: we identified 35 cases during the			
		period 2002-05. The median time from cancer diagnosis to			
		the clinical onset of ONJ was 70 months. The time for the			
		onset of ONJ was significantly shorter for patients treated			
		with zoledronic acid alone than for those treated with			
		pamidronate followed by zoledronic acid. Our analysis			
		strongly suggested an association between the use of BP			
		and the occurrence of ONJ, although we were unable to			
		identify any definite risk factors with a retrospective study.			
		The most frequently ONJ-associated clinical characteristics			
		were chemotherapy treatment, steroid treatment, advanced			
		age, female sex, anemia, parodonthopaties/dental			
TasiD	46-11-1-1-1-1	procedures and thalidomide (in the case of MM patients).			
Tosi P.	thalidomide +	Retrospectively review: 259 consecutive patients with			
Blood 2006;108:3951-2.	zoledroninezuur	symptomatic MM who were enrolled in a clinical trial. All			
		patients received 4 months of primary therapy with			
		thalidomide 200 mg/d combined with high-dose dexametha-			
		sone followed by double autologous transplantation with melphalan 200 mg/m ² . Thalidomide and dexamethasone			
		were continued until the second autologous transplantation.			
		I.v. zoledronic acid 4 mg every 28 days was administered			
		throughout the whole treatment period and continued			
		thereafter. Only patients receiving zoledronic acid for longer			
		than 4 months were included in the present analysis.			
		ONJ after 24 months of zoledronic acid exposure was 6.6%,			
		a value comparable with those found in other analyses.			
		This observation might suggest that neither antiangiogenic			
		activity of thalidomide, nor impaired bone remodeling related			
		to dexamethasone, nor severe immunosuppression			
		induced by high-dose melphalan was an important additional			
		risk factor for the development of ONJ.			
Zervas K.	thalidomide +	The incidence, characteristics and risk factors for the			
Br J Haematol 2006;134:620-	zoledroninezuur	development of ONJ were evaluated among 303 myeloma			
3.		patients. Only patients who received bisphosphonates			
		developed ONJ (28/254; 11%). Zoledronic acid produced 9.5-			
		fold greater risk for developing ONJ than pamidronate alone			
		and 4.5-fold greater risk than subsequent use of pamidronate			
		+ zoledronic acid.			
		Use of thalidomide and number of bisphosphonate infusions			
		also increased the risk for ONJ by 2.4-fold, and 4.9-fold			
		respectively.			
		ONJ developed earlier among patients receiving zoledronic			
		acid. Our data indicates that administration of zoledronic acid			
		for more than 2 years or in combination with thalidomide			
		requires caution in myeloma.			

Opmerkingen

Stockley: 'no interaction is established'. Gegevens uit Spencer 2008 suggereren dat het risico op nierproblemen door zoledroninezuur+thalidomide niet groter is dan alleen zoledroninezuur. Mechanisme: onduidelijk.

SPC Fosamax, Bonefos, Didrokit, Actonel, Bonviva: thalidomide niet genoemd.

PubMed: niks op alle bisfosfonaten + thalidomide, behalve therapeutische combinatie.

Risicogroep

	Interactie	Actie	Datum
Beslissing WG OncolA	Nee	Nee	28 november 2012