

León 2012

Joint Meeting of

30th Meeting of the European Society of Veterinary Pathology

Annual Meeting of the European College of Veterinary Pathologists

24th Annual Meeting of the Spanish Society of Veterinary Pathology

León (Spain) September 5th to 8th of 2012



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This meeting is dedicated to honour

Prof. Franco Guarda

León (Spain) September 5th to 8th 2012



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P171- SITAGLIPTIN DELAYS PROGRESSION OF RENAL LESIONS IN A RODENT MODEL OF TYPE 2 DIABETES

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Introduction: Diabetic nephropathy is a microvascular complication of diabetes progressing to end-stage renal disease. Thus, ability of antidiabetic drugs to ameliorate renal disease is as important as their capability to control glucose. Whereas the hypoglycemic effects of sitagliptin, an incretin-dipeptidyl peptidase-IV (DPP-4) inhibitor, are well known, its renal effects remain to be elucidated. This study aimed to evaluate the effects of 6-weeks treatment with a low dose of sitagliptin in diabetic nephropathy in the ZDF rat, animal model of Type 2 Diabetes.

Materials and Methods: Diabetic ZDF male rats (20-weeks-old) were treated with vehicle/sitagliptin-10 mg/kgBW/day, during 6 weeks (n=8 each). Kidney specimens were stained with haematoxylin-eosin and periodic-acid-Schiff and examined by light microscopy. Semiquantitative rating was assigned to each component, ranging from 0-absent to 3-severe and extensive damage. Damage was assessed by evaluating glomerular and tubulointerstitial lesions (interstitial fibrosis/tubular atrophy – IFTA) and vascular lesions.

Results: Renal lesions in ZDF rats were linked with mesangial expansion and extensive sclerosis. Sitagliptin prevented aggravation of glomerular and vascular lesions, as well as IFTA, in diabetic ZDF rats.

Conclusion: Results suggest that sitagliptin could provide additional therapeutic benefits against diabetes-associated nephropathy.