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Name of Journal: *World Journal of Diabetes*

Manuscript NO: 58572

Manuscript Type: ORIGINAL ARTICLE

Case Control Study

Plasma melatonin levels in patients with diabetic retinopathy secondary to type 2 diabetes

Wan W *et al.* plasma melatonin in DR

Abstract

BACKGROUND

Melatonin was reported to be related with diabetes mellitus (DM) risk, however, the effect of melatonin on diabetic retinopathy (DR) risk remained unclear.

AIM

To explore the effect of melatonin on diabetic retinopathy (DR) risk



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<https://pubmed.ncbi.nlm.nih.gov/21629571>

Alteration of **melatonin secretion** in patients with **type 2 diabetes** and **proliferative diabetic retinopathy**. The **nighttime melatonin level** is altered in **patients** with **diabetes** and **PDR** but not in **diabetic patients** without **PDR**.

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Author: Taiichi Hikichi, Naohiro Tateda, Toshiaki...

Publish Year: 2011

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3104794>

The purpose of this study was to evaluate the dynamics of **plasma melatonin secretion in patients** with **type 2 diabetes mellitus** and **diabetic retinopathy**. **Plasma melatonin levels** were measured by high-performance liquid chromatography in 56 **patients**. **Patients** ...

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CONCLUSION: The **nighttime melatonin level** is altered in **patients** with **diabetes** and **PDR** but not in **diabetic patients** without PDR. Although **patients** with **PDR** may have various dysfunctions that affect **melatonin secretion** more severely, advanced dysfunction of **retinal light** perception may cause altered **melatonin secretion**. Alteration of **melatonin secretion** may accelerate further occurrence of complications in **diabetic patients**...

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Alteration of melatonin secretion in patients with type 2 diabetes and proliferative diabetic retinopathy.

The nighttime melatonin level is altered in patients with diabetes and PDR but not in diabetic patients without PDR.

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Author: Taiichi Hikichi, Naohiro Tateda, Toshiaki Mi...

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[Alteration of melatonin secretion in patients with type 2 ...](#)

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Although Tutuncu et al¹⁰ reported that the circadian rhythm of melatonin secretion was deteriorated in patients with type 2 diabetes and that there was a complex relationship between various components of the autonomic nervous system and nighttime melatonin secretion, they did not find a difference in the melatonin levels of diabetic patients with and without retinopathy, and suggested that a small number of patients with PDR but without advanced retinopathy ...

Cited by: 55

Author: Taiichi Hikichi, Naohiro Tateda, Toshiaki Mi...

Publish Year: 2011

[Increased melatonin levels in aqueous humor of patients ...](#)

<https://pubmed.ncbi.nlm.nih.gov/27275429>

Results: Melatonin levels were significantly higher in the aqueous humor of patients with proliferative diabetic retinopathy (PDR) [18.57 ± 2.67 pg/mL (range 15.20-23.06) vs 13.63 ± 2.71 pg/mL (range 10.20-20.20), $P=0.0001$], but not in those with nonproliferative retinopathy (NPDR) [13.79 ± 2.56 pg/mL (range 9.80-20.10) vs 13.63 ± 2.71 pg/mL (range 10.20-20.20), $P=0.961$] compared to controls. There was ...

Cited by: 4

Author: Erdinc Aydin, Semsettin Sahin

Publish Year: 2016

[Alteration of melatonin secretion in patients with type 2 ...](#)

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Background: The purpose of this study was to evaluate the dynamics of plasma melatonin secretion in patients with type 2 diabetes mellitus and diabetic retinopathy. Methods: Plasma melatonin levels were measured by high-performance liquid chromatography in 56 patients. Patients were divided into a