

Vitamin D metabolism in psoriasis before and after phototherapy.

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Epidermis plays a major role in vitamin D synthesis and is a target tissue for 1,25 (OH)₂ vitamin D, which could be involved in abnormal proliferation and differentiation of psoriatic keratinocytes. We investigated plasma calcium, phosphorus, alkaline phosphatases, parathyroid hormone, 25 (OH) D, 24,25 (OH)₂ D and 1,25 (OH)₂ D in 15 control subjects and 20 psoriatic patients before and after 3 weeks of phototherapy (UVB or PUVA). Before irradiation, all parameters were similar in psoriatics and controls, except for serum phosphorus (lower in psoriasis p less than 0.01). After phototherapy, P rose to normal values in psoriatic patients; 25 (OH) D and 24,25 (OH)₂ D were dramatically increased by UVB (but not by PUVA) in psoriatic patients as well as in controls; 1,25 (OH)₂ D was unmodified in controls but was significantly increased in psoriasis. Since 1,25 (OH)₂ D has been reported to be an effective treatment for psoriasis, the UV-induced increase in 1,25 (OH)₂ D could account for the beneficial effect of phototherapy in psoriasis.

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