

"Studies of glucocorticoids after oral administration: evaluation of reporting levels and washout periods."

Rosa Ventura ((Doping Control Research Group, Fundació IMIM, Barcelona, Spain)

Project Overview

Recent research has demonstrated that the criterion of discrimination between allowed and prohibited administrations of GCs needs to be compound specific. For some GCs, largely detected in doping controls, no sufficient data is available, and the objective of this project is to perform excretion studies with these GCs to generate the data needed to define the reporting levels and the washout periods.

The project will be focused on dexamethasone (DEX), methylprednisolone (MP) and deflazacort (DEF).

The research will be focused on the following specific objectives:

- To perform excretion studies of DEX, MP and DEF with administration of one single oral dose. For DEX, multiple oral doses will be also studied.
- To measure concentrations in urine of the parent compounds and the main metabolite in case of DEF, to evaluate the reporting levels and washout periods.
- To measure concentrations of the compounds and cortisol in plasma, to evaluate the concordance of the urinary reporting levels and washout periods proposed with plasma concentrations of the active drug and the systemic effect