



Alleviation of insulin resistance and liver damage by oral administration of Imm124-E is mediated by increased Tregs and associated with increased serum GLP-1 and adiponectin. Results of a Phase I/II clinical trial.

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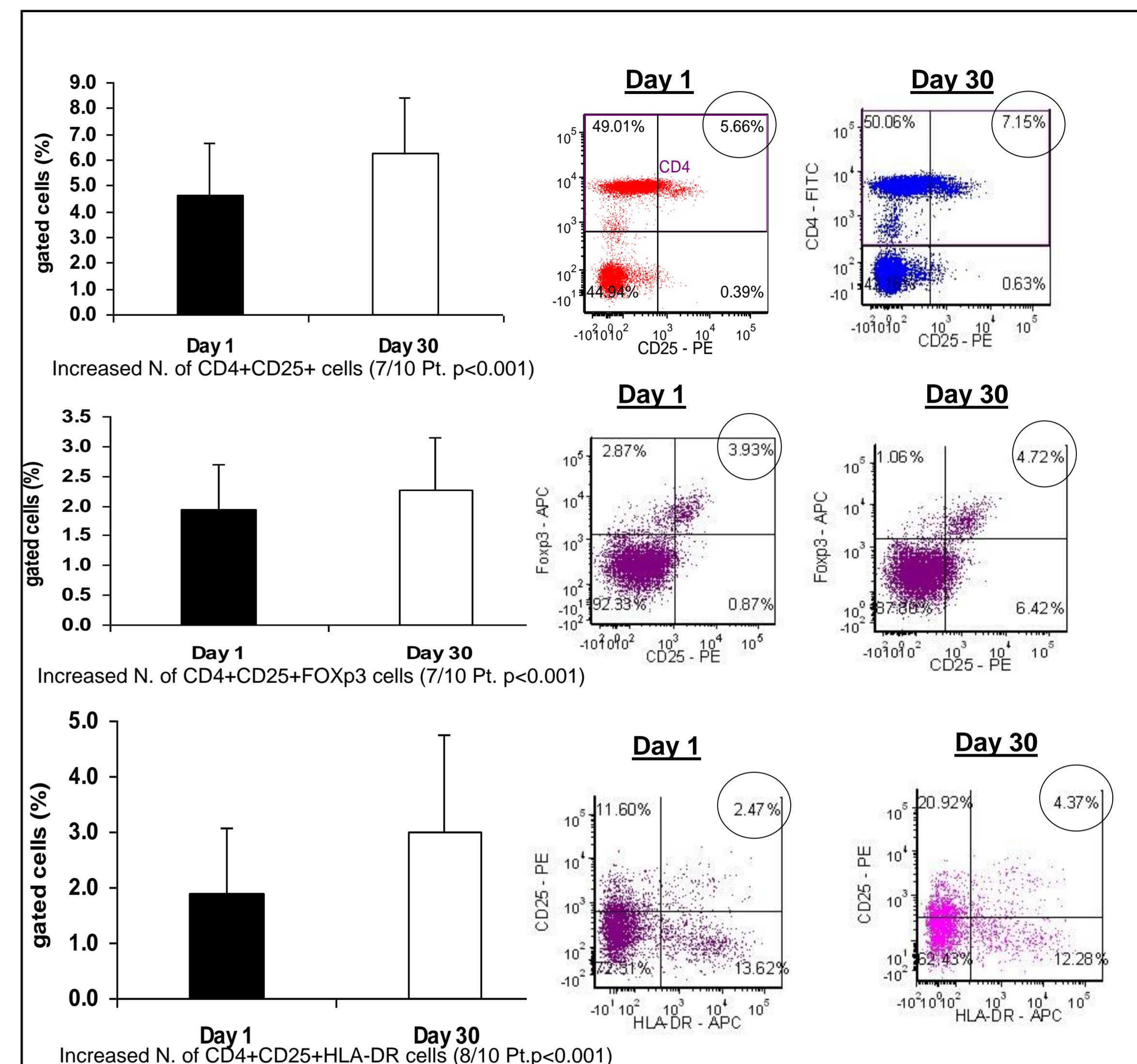
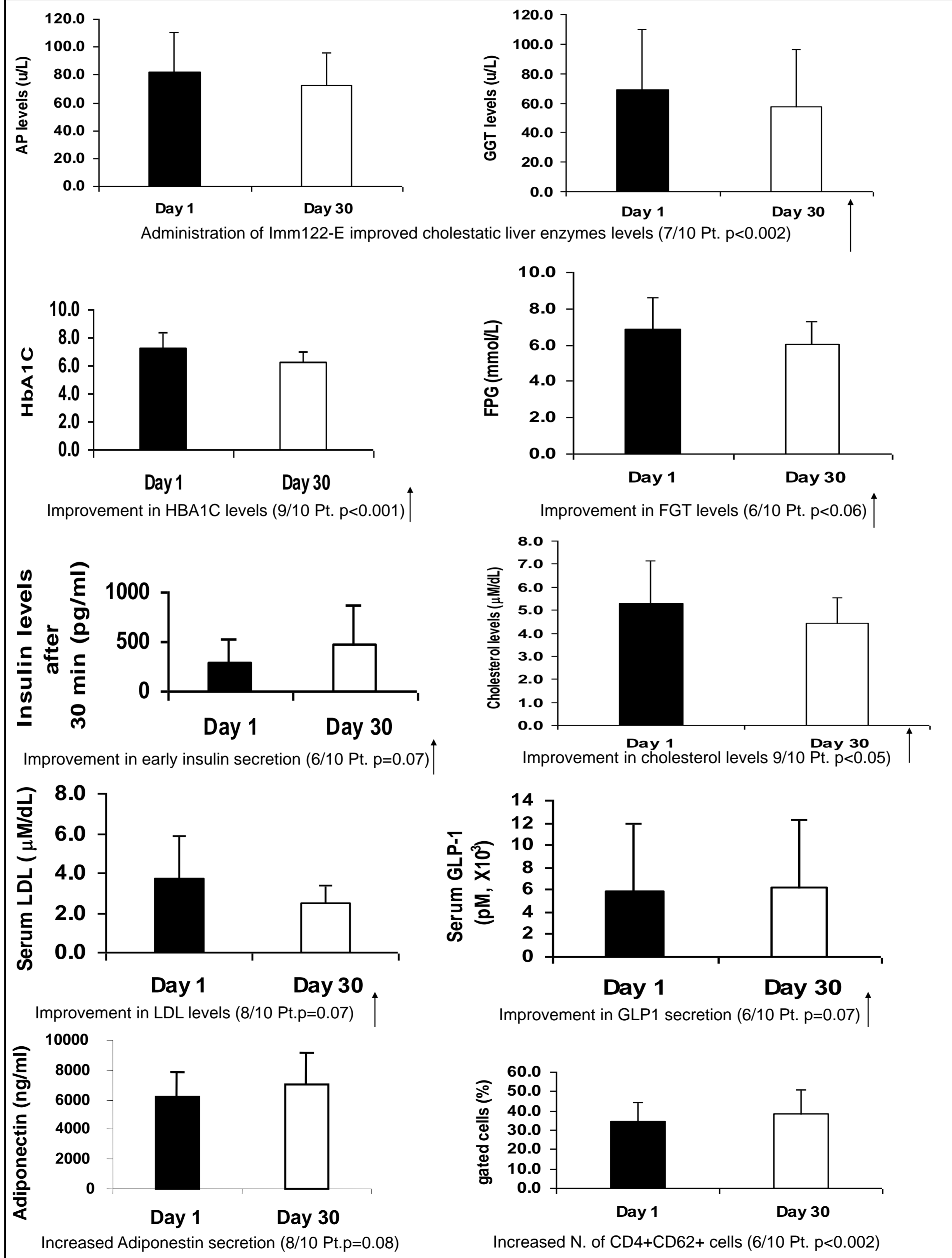
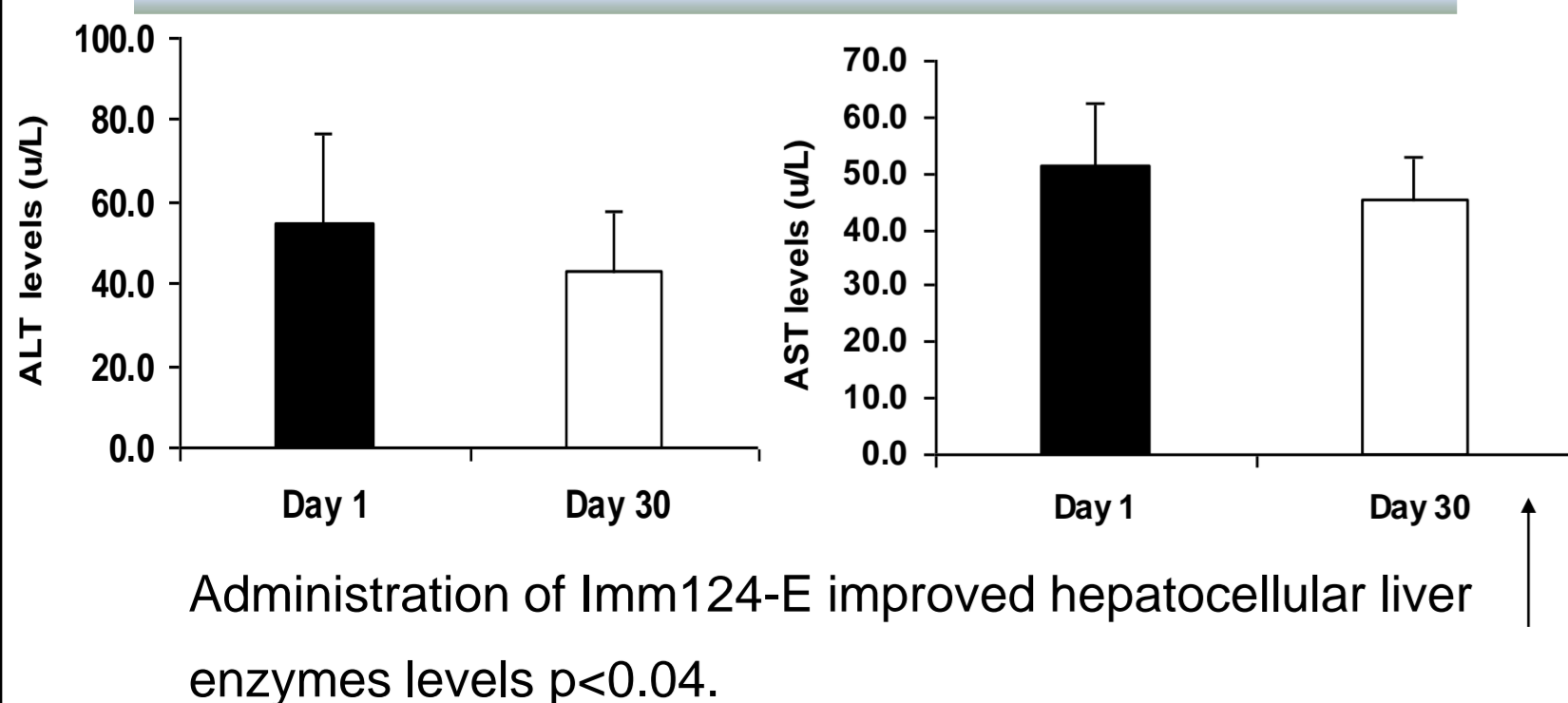
INTRODUCTION

- Metabolic syndrome is a chronic inflammatory disorder associated with insulin resistance and hepatic steatosis.
- Anti LPS colostrum (Imm124-E) is a bovine colostrum raised against LPS from an E.coli extract.
- Imm124-E was shown to exert an immunomodulatory effect and to alleviate target organ damage in animal models.
- Aim: To determine the safety and efficacy of oral administration of anti LPS colostrum to patients with insulin resistance and NASH.

METHODS

- In an open-label trial, 10 subjects with biopsy proven NASH and insulin resistance or diabetes type II were orally treated for 30 days with Imm124-E (600 mg a day).
- Subjects were monitored for serum levels of insulin, adiponectin, and GLP-1 and for the changes of expression in peripheral regulatory T cells (Tregs).
- Clinical effect was evaluated by: OGTT, liver enzyme, and lipid profile. The comparison was done between day 1 and day 30 for each patient.
- Data analysis was carried out on responders.

RESULTS



CONCLUSION

- Oral administration of Imm124-E exerts an immunomodulatory effect in subjects with insulin resistance or type 2 diabetes, hyperlipidemia and NASH.
- The anti-inflammatory effect and promotion of peripheral Tregs, were in some of the responders associated with alleviation of insulin resistance and NASH in these subjects.

DISCLOSURE

* Medical Director of Immuron.
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