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2021

**EVALUATING THE EFFECTS OF ORAL CONTRACEPTIVE USE ON BIOMARKERS
AND BODY COMPOSITION DURING A COMPETITIVE SEASON IN COLLEGIATE
FEMALE SOCCER PLAYERS**

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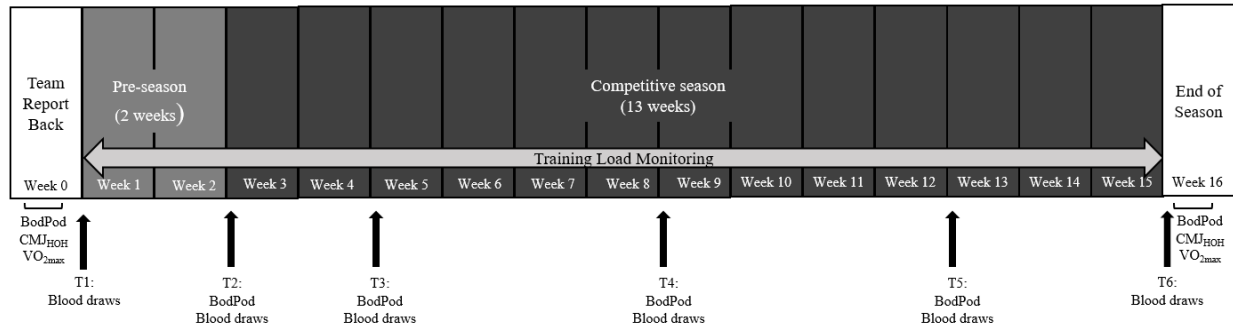
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The following supplementary file presents graphical output of the Bayesian hierarchical generalized linear models fitted to the biomarker data. Plots are separated into the following categories:

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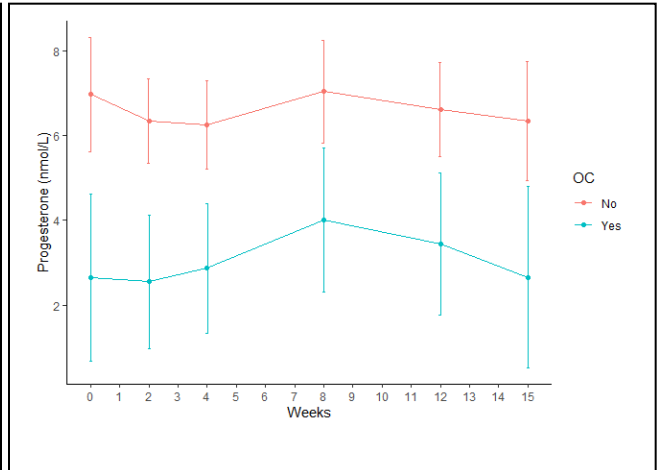
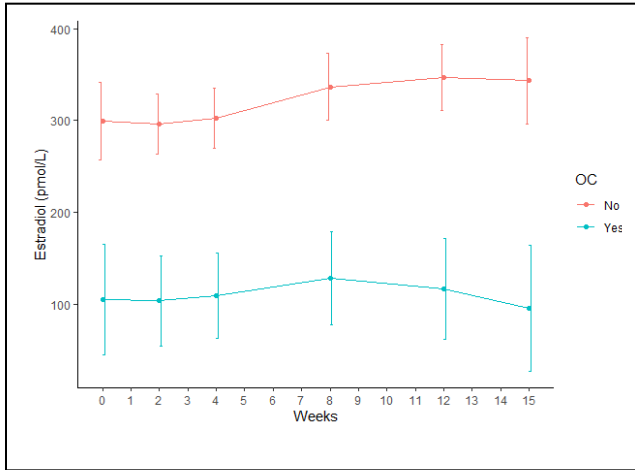
Fig.1: Experimental Design



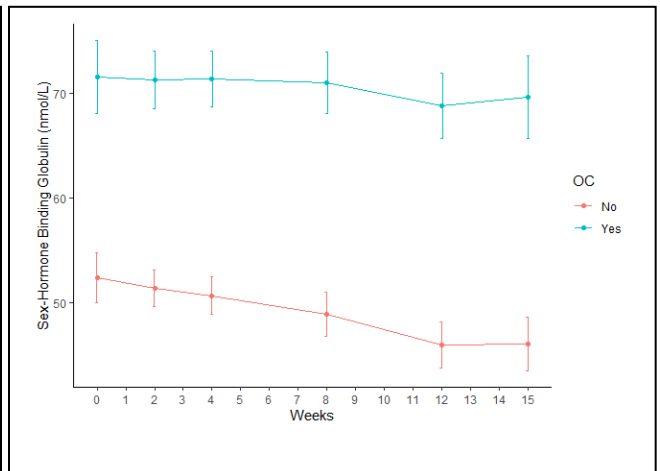
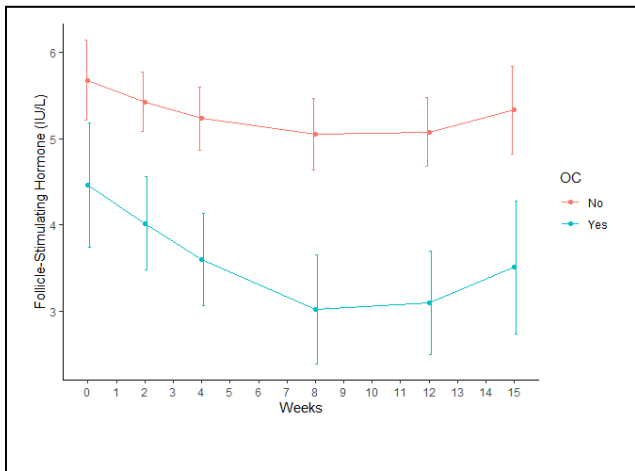
Timing of blood draws: T1=Before start of team pre-season training, T2=14 days after T1 (immediately after pre-season), T3=28 days after T1, T4=28 days after T3, T5=28 days after T4, and T6=21 days after T5

Fig.2: Changes in Reproductive Biomarkers in Female Players across the Soccer Season

Estradiol and Progesterone



Follicle-Stimulating Hormone and Sex-Hormone Binding Globulin



Free Testosterone and Total Testosterone

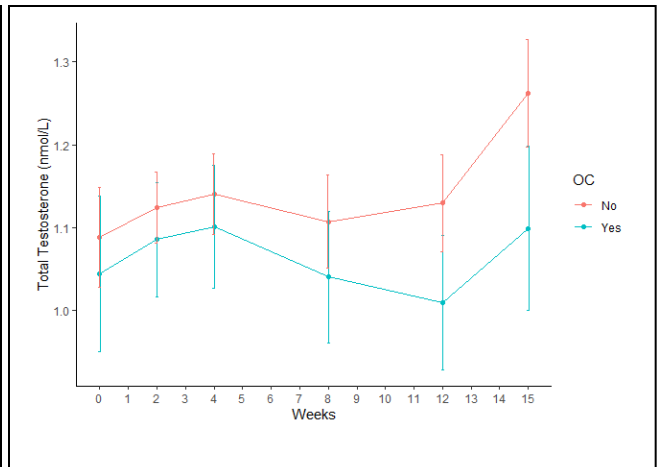
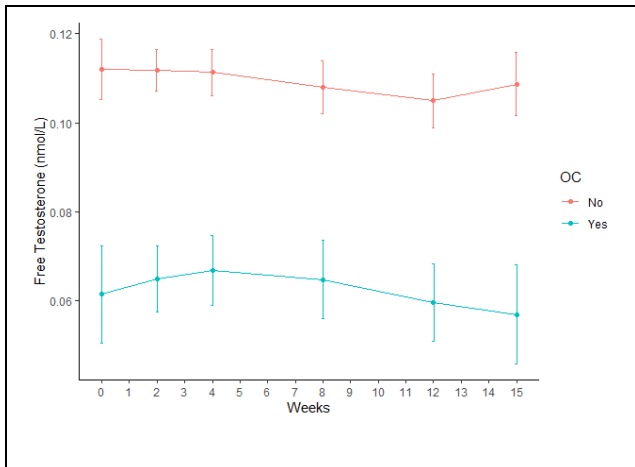


Fig.2: Changes in Reproductive Biomarkers in Female Players across the Soccer Season

Prolactin

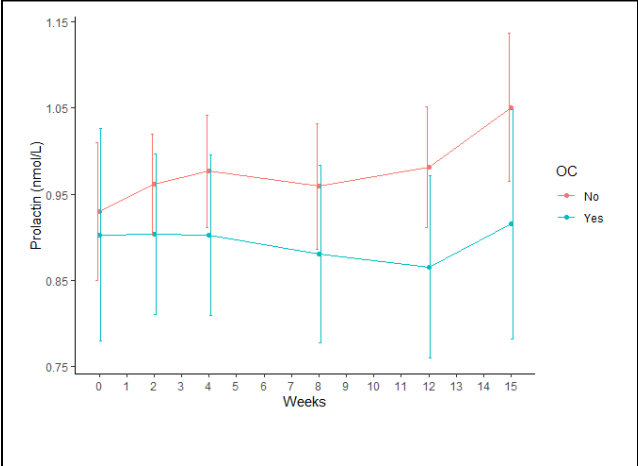
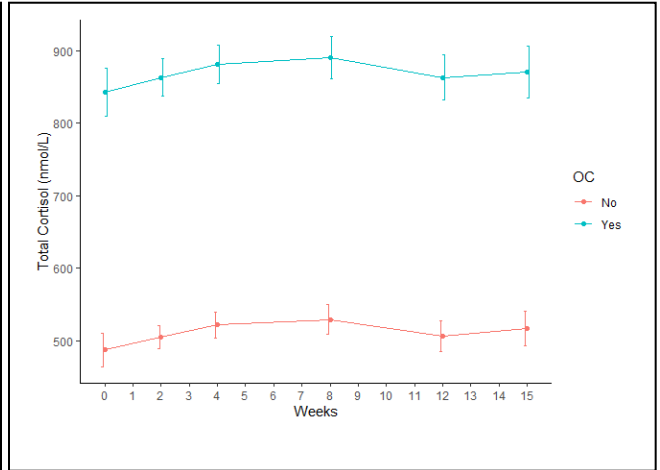
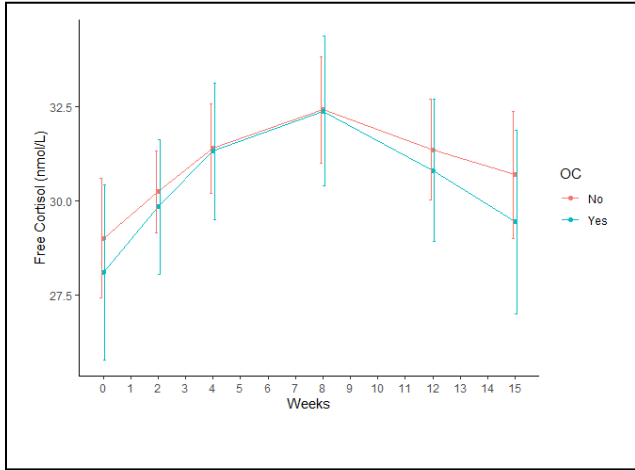
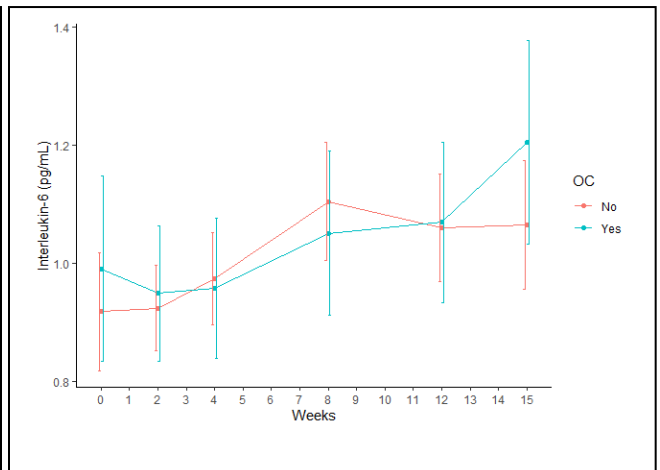
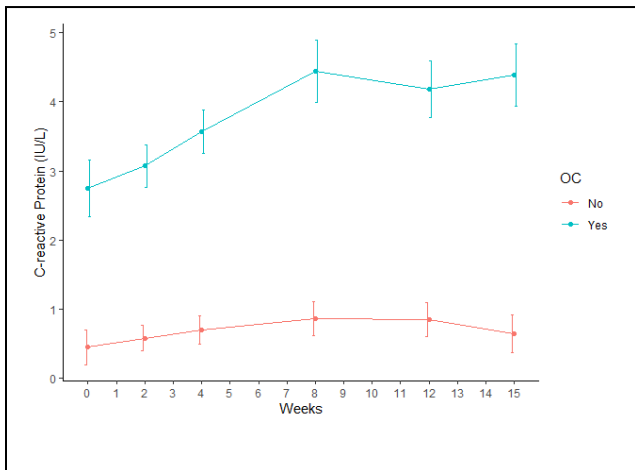


Fig.3: Changes in Stress & Inflammatory Biomarkers in Female Players across the Soccer Season

Free Cortisol and Total Cortisol



C-reactive Protein and Interleukin-6



Tumor Necrosis Factor- α

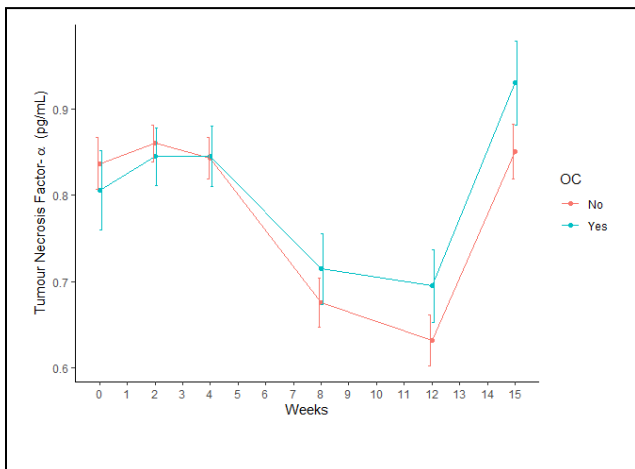
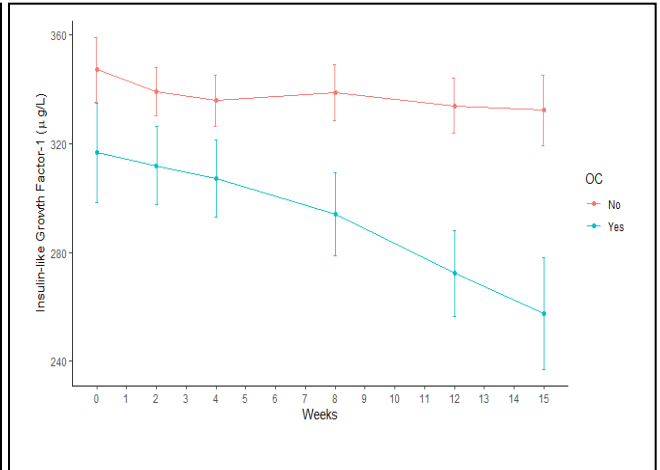
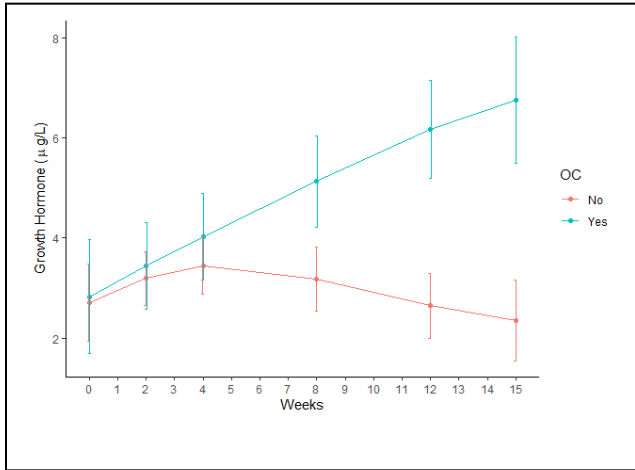


Fig.4: Changes in Biomarkers of Muscular Growth and Breakdown in Female Players across the Soccer Season

Growth Hormone and Insulin-like Growth Factor-1



Creatine Kinase

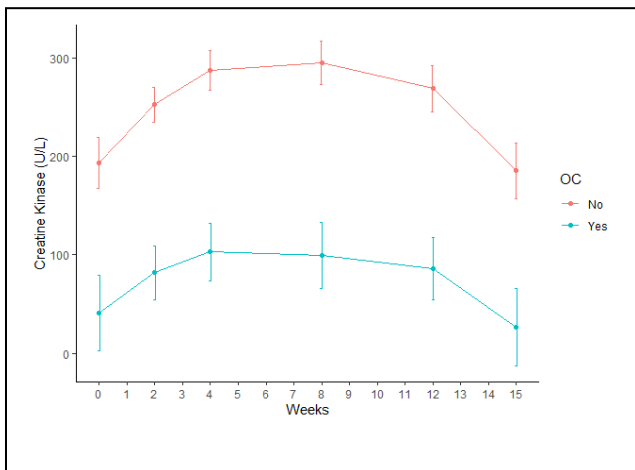
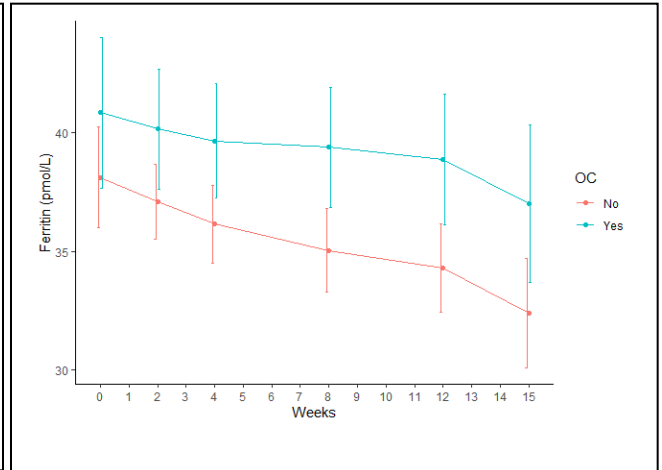
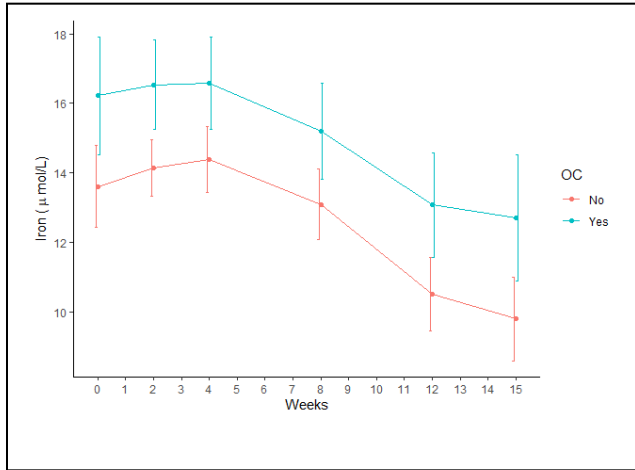
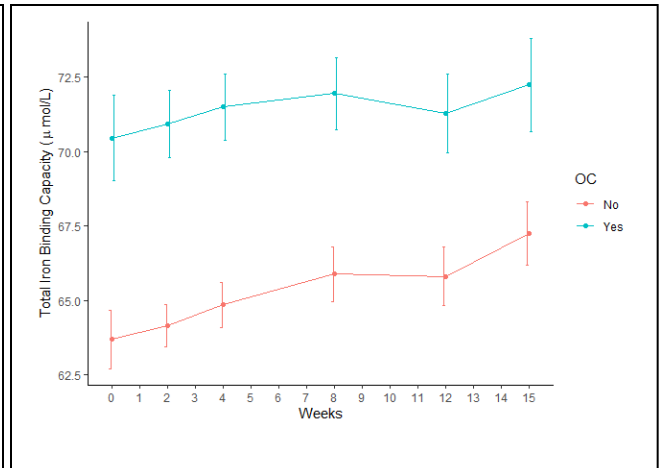
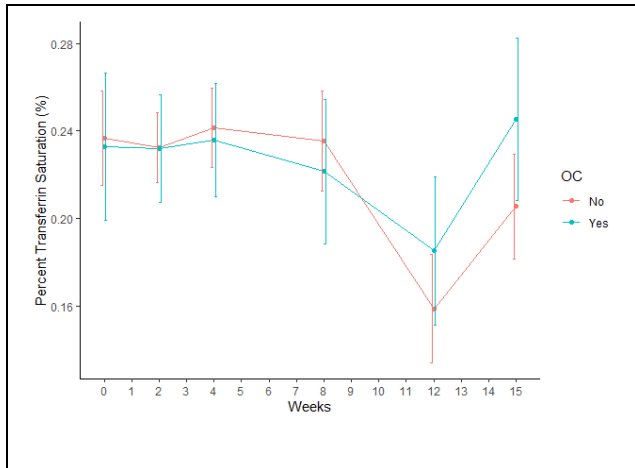


Fig.5: Changes in Iron Status in Female Players across the Soccer Season

Iron and Ferritin



Percent Transferrin Saturation and Total Iron Binding Capacity



Transferrin

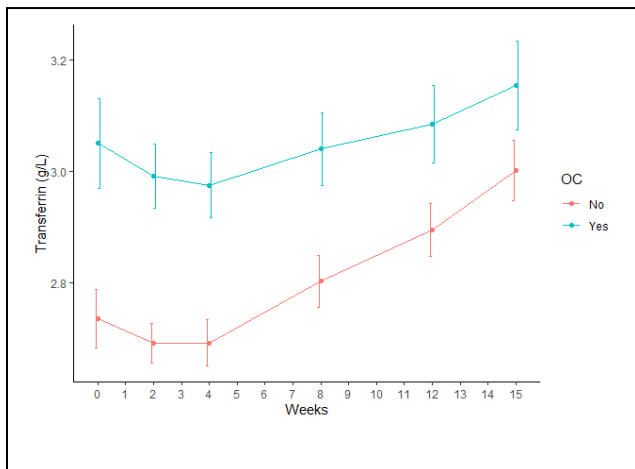
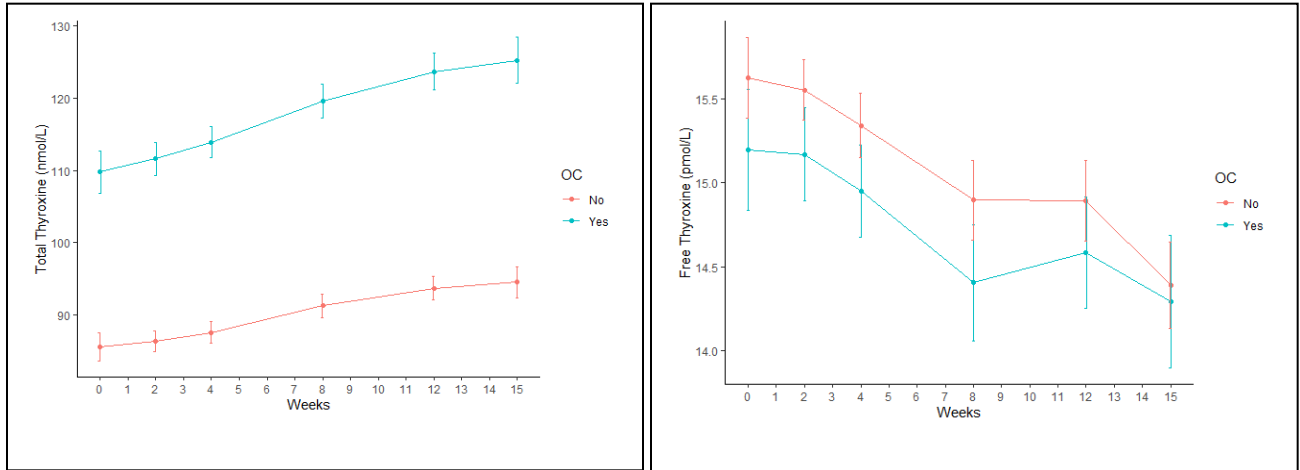
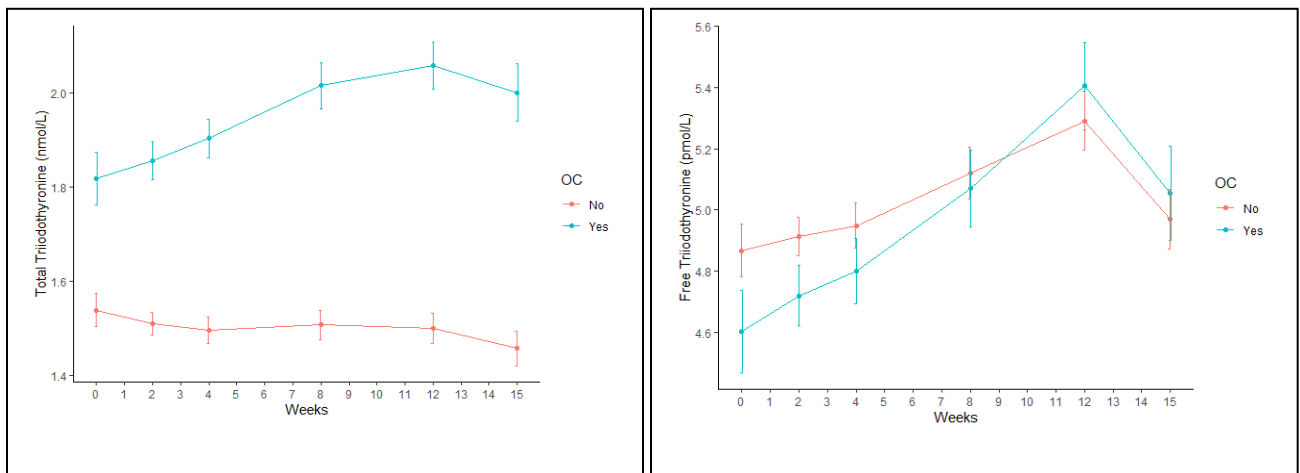


Fig.6: Changes in Metabolic Biomarkers in Female Players across the Soccer Season

Total Thyroxine and Free Thyroxine



Total Triiodothyronine and Free Triiodothyronine



Thyroid Stimulating Hormone and Leptin

