

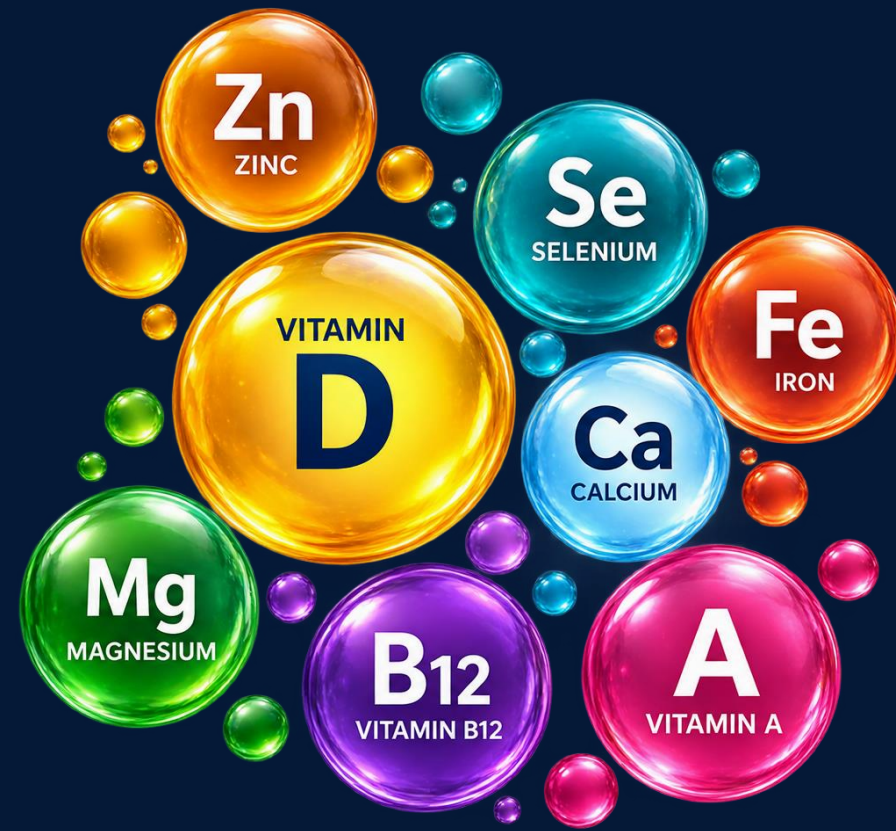
NUTRIENT DEFICIENCIES AFTER MagDI

What happens during the first year?

Nutrient Absorption and Deficiency Risk Following Magnetic Duodeno-ileostomy in Adults With Obesity

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IFSO 2026



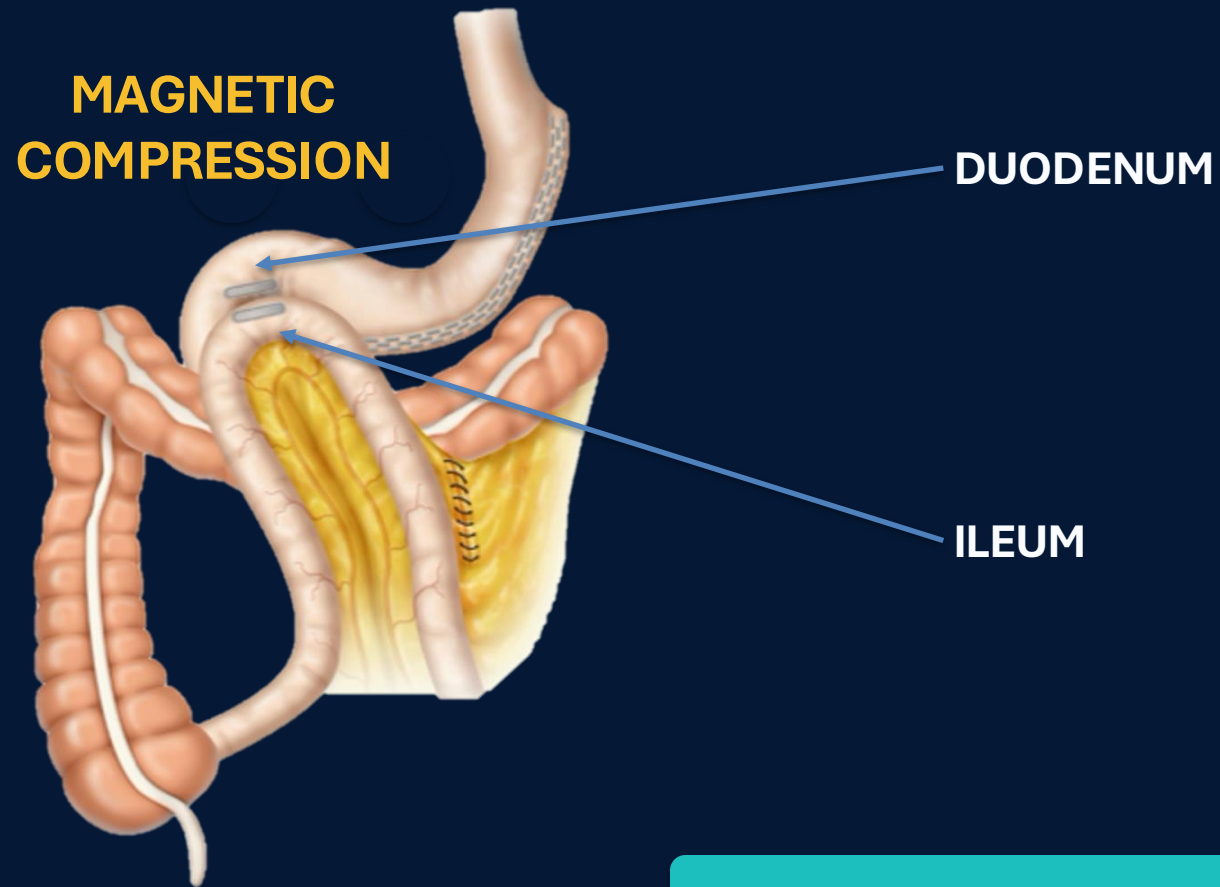
*Westmount Square Surgical Center.

Disclosure

GT Metabolic Shareholder

THE PROCEDURE

MAGDI



SIDE-TO-SIDE DI ANASTOMOSIS

WHY IT MATTERS

**Minimally invasive
compression
strategy**

**Creates a duodeno-
ileal
diversion**



HOW DOES MagDI IMPACT NUTRITIENT DEFICIENCIES?

We followed deficiency patterns and asked what drives them.

MAGNET SIZE?

COMPLIANCE?

SUPPLEMENTS?

HYPOTHESIS

Overall deficiency severity would remain **LOW**.

Nutritional status would depend more on adherence than device size.

54 PATIENTS. 1 YEAR.

54

PATIENTS

3 MAGNET SIZES

30 mm: 24

39 mm: 11

50 mm: 19

FOLLOW-UP

PRE → 3M → 6M → 12M

LABS

Hemoglobin
Protein/albumin
Vitamins
Minerals

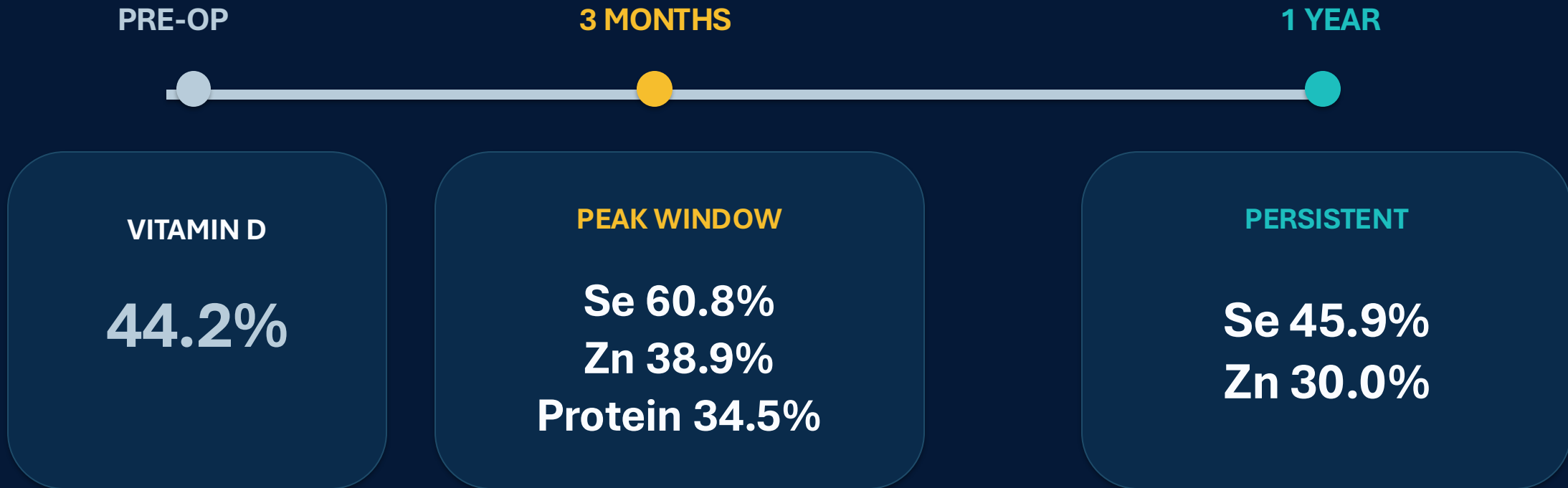
DEFICIENCY CLASSIFY AS

Light
Moderate
Severe

ADHERENCE

Supplements +
6-domain
compliance score

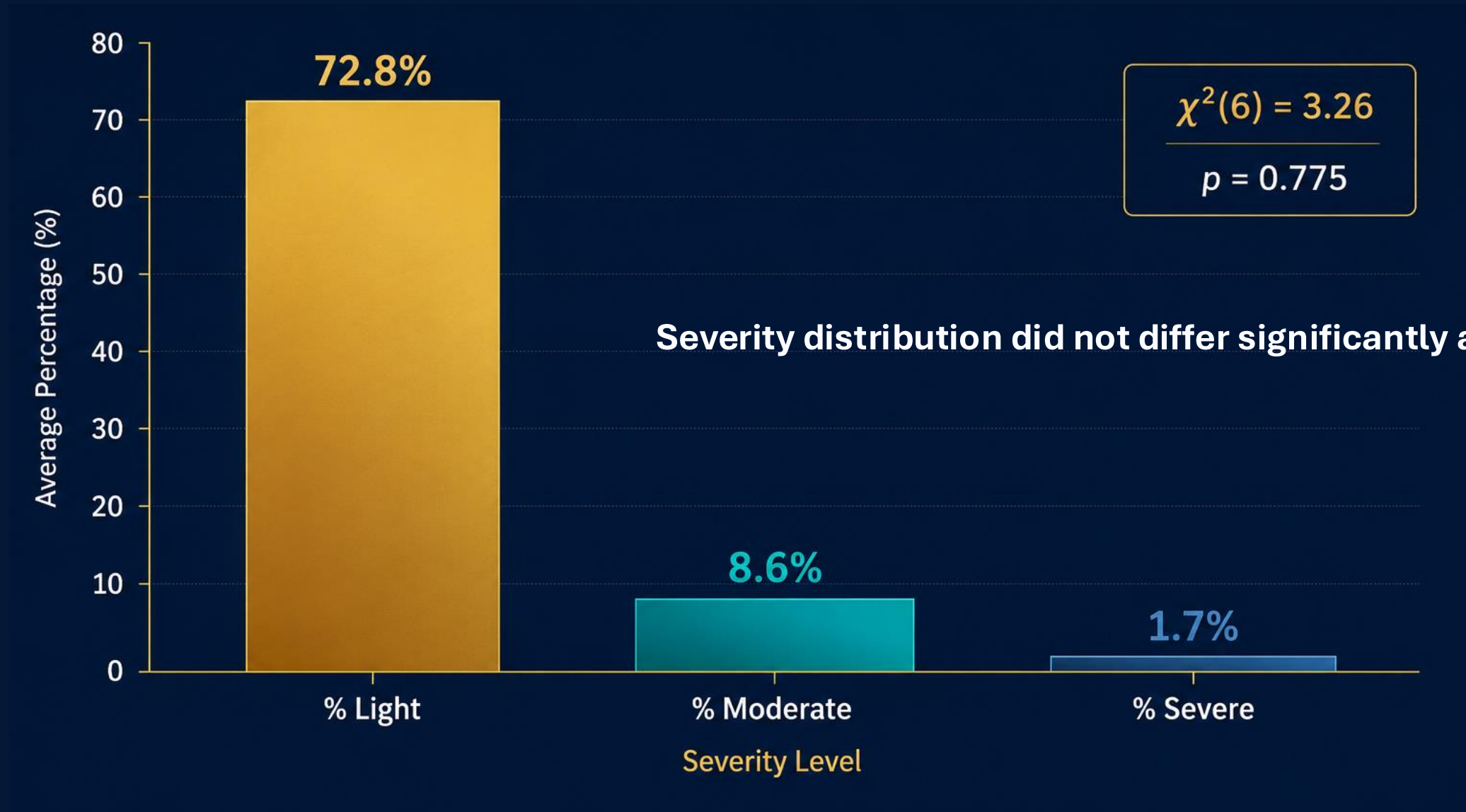
THE DEFICIENCY STORY



Most deficiencies improved — selenium and zinc remained the main signal.

RESULTS

Most recorded deficiencies were light, and severity distribution remained stable across follow-up.



RESULTS

DOES MAGNET SIZE MATTER?

Deficiency status was compared across the three magnet-size groups.



30 mm

n = 24

12.5% deficient



39 mm

n = 11

27.3% deficient



50 mm

n = 19

15.8% deficient

$\chi^2(2)$

1.20

p =

0.548

NOT
SIGNIFICANT

No statistically significant association between magnet size and deficiency status.

MAGNET SIZE DOES NOT APPEAR TO DRIVE DEFICIENCY RISK.

RESULTS

COMPLIANCE FADES OVER TIME.

The distribution of patients with deficiencies by compliance categories changed significantly from 3 to 12 months.



Overall shift $p = 0.0272$

Good compliance ↓ $p = 0.0139$

The Key: Follow the recommendation.

Recommendations.



- **MONITOR EARLY** including ZINC SELENIUM, PROTEINS
- **Personalized Plan** based on patient deficiencies
- **Integrate behavioral and educational support**

XXX IFSO WORLD CONGRESS

"Advancing Multimodal Obesity Care"

24-27 August 2027

ifso2027.org



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PARIS 2027

See you in

PARIS



BACKUP — STATISTICAL RESULTS

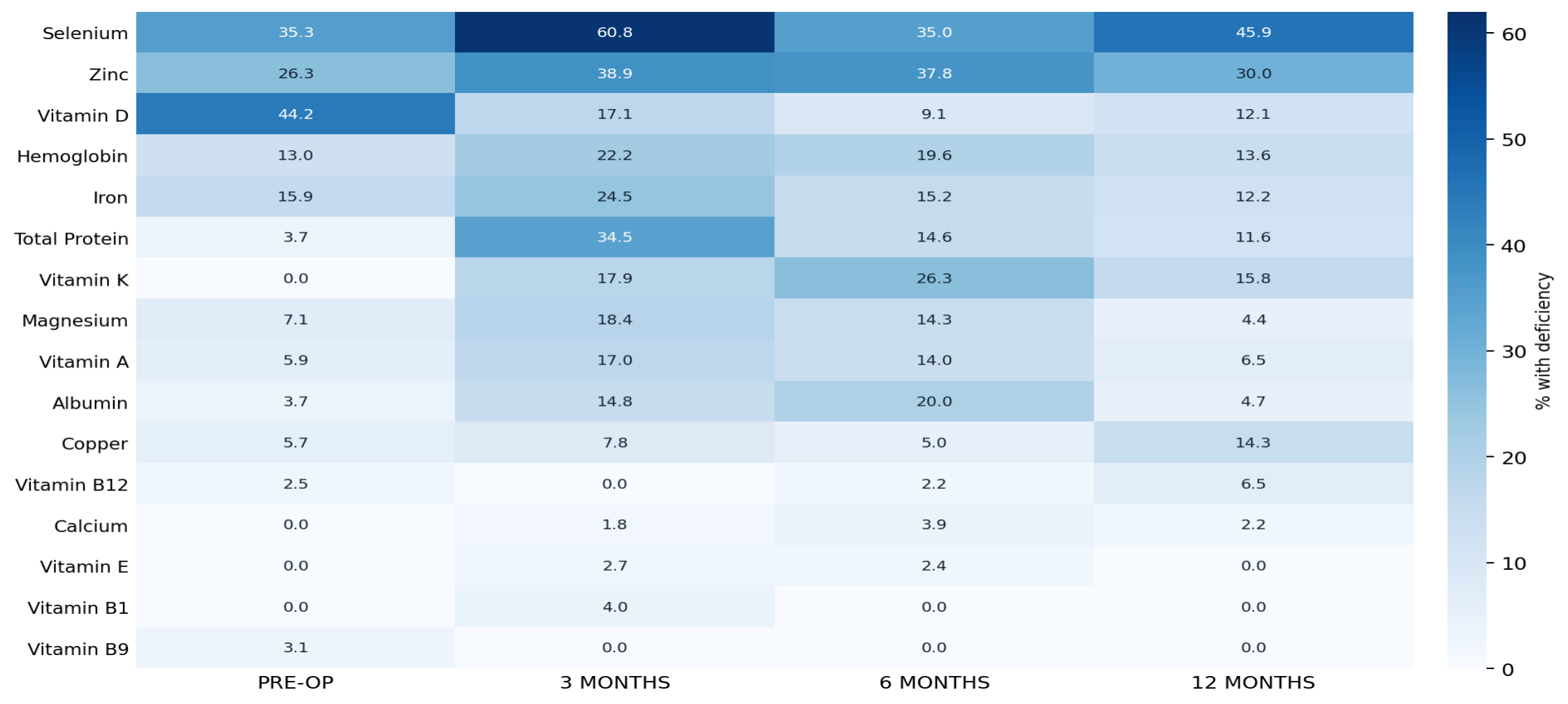
COMPARISON	TEST	P-VALUE	INTERPRETATION
Severity × Period	$\chi^2 = 3.261$	p = 0.7755	Not significant
Compliance × Period	$\chi^2 = 7.209$	p = 0.0272	Significant
Category I — Good	$\chi^2 = 6.048$	p = 0.0139	Significant ↓
Category II — Moderate	$\chi^2 = 0.691$	p = 0.4058	Not significant
Category III — Poor	$\chi^2 = 2.068$	p = 0.1504	Not significant

Category I: 37.7% at 3 months → 18.8% at 12 months.

Categories II and III did not change significantly.

NUTRIENT DEFICIENCY PREVALENCE OVER TIME

Updated cohort: N = 54 • Follow-up: pre-op, 3, 6 and 12 months



Peak signal at 3 months; selenium and zinc remain the most persistent at 12 months.