

Food Intake in Internal Medicine Departments: The Gap Between Documentation and Reality

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Background

- Malnutrition is common but often underdiagnosed in hospitalized patients.
- It impairs recovery and worsens clinical outcomes.

- · Visual estimation by nursing staff is commonly used to document food intake in hospitals.
- These estimates can be inaccurate, delaying appropriate nutritional care.

report and actual consumption (g)

🅝 Aim: To assess the accuracy of routine documentation by comparing nursing estimates with actual plate waste measurements.

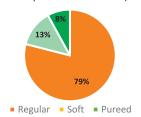


Results

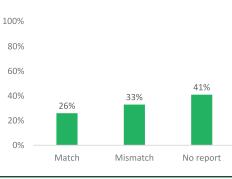
Result 1: Mean energy served and consumed by food categories (N=300)

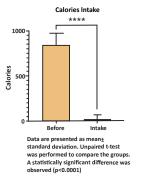
	Total (%)	Carbohydrate (%)	Protein (%)	Vegetable (%)
Meal Served (Kcal)	738 (100)	373 (100)	295 (100)	70 (100)
Consumed (Kcal)	386 (52.3)	199 (53.3)	169 (57.2)	41 (58.7)

Result 2: Food intake by texture-modified diet (N=300)



Result 3: Accuracy of nursing report compared to Result 4: Calories intake in pureed texture diet (N=24) actual intake (N=300)





600 **Actual Measured** 400 (g) Intake 300 200 100 0 0 - 25% 50% 75 -100% No Report **Nursing Report**

Result 5: The distribution and pattern of the gaps between the nursing

Methods

- Conducted in internal medicine departments at Rabin Medical Center, Beilinson Hospital, Israel.
- The study (N=300) compared nursing estimations to actual food intake based on weighing food components before and after meals.
- Data were analyzed using Cohen's Kappa and Bland-Altman.
- Ethics approval was obtained



Summary/ Highlights

- · Significant discrepancies were found between nursing estimations and actual intake measured by precise weighing.
- Despite documentation suggesting adequate intake, true consumption was often lower, especially in pureed meals (p < 0.0001).
- · Visual estimations proved unreliable, underscoring the need for more accurate and standardized methods to assess hospitalized patients' food intake.

References

- Rinninella E et al. Hospital Services to Improve Nutritional Intake and Reduce Food Waste: A Systematic Review, Nutrients, 2023:15:1686.
- Cederholm T, Bosaeus I. Malnutrition in Adults. New England Journal of Medicine. 2024; 391(2):155-65.

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