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Audit of Correct Order Entry of Registered Dietitian Recommendations for Nutrition Support

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Audit of Correct Order Entry of Registered Dietitian Recommendations for Nutrition Support

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BACKGROUND

In 2014 the Centers for Medicare and Medicaid services (CMS) authorized pertinent order-writing privileges for Registered Dietitians (RDs) in the acute-care setting, including oral diets, enteral nutrition (EN), and parenteral nutrition (PN). Granting RDs order-writing privileges has been shown to reduce costs in acute care hospitals, including reduced labor, shorter patient stays, lower readmission rates, decreased mortality, and less waste due to incorrectly ordered PN and EN. Nutrition support orders completed by providers other than RDs are associated with hypercaloric feeds in critically ill patients, while simultaneously not meeting protein needs; an imperative macronutrient in critically ill patients

Several quality improvement (QI) analyses have demonstrated that optimizing accuracy and efficiency of clinical nutrition interventions improves patient outcomes, including increased calorie and protein delivery, decreased length-of-stay, decreased mortality, and improved quality of life post-discharge.

A study conducted at a 613-bed tertiary academic medical center observed a \$169,000 savings from correctly entered PN support orders when RDs were granted order writing privileges. This cost savings was a direct result of reduced inaccurate PN orders, pharmacy labor, and material waste. This did not take into account potential additional cost savings related to all aspects of therapeutic diet ordering.

OBJECTIVE

To quantify what percentage of enteral and parenteral nutrition orders were entered accurately based on Registered Dietitian recommendations.

STUDY POPULATION

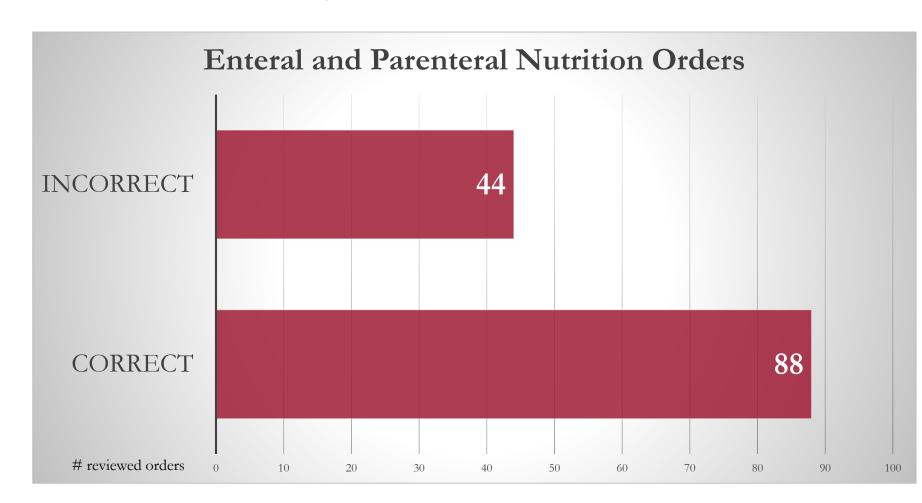
Adult and pediatric patients admitted to Maine Medical Center undergoing audit from January 23rd 2023 to February 3rd 2023.

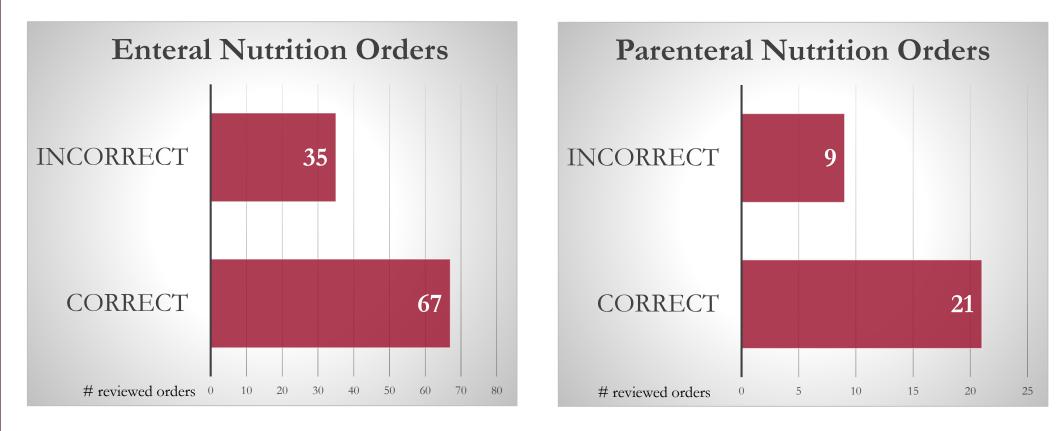
METHODS

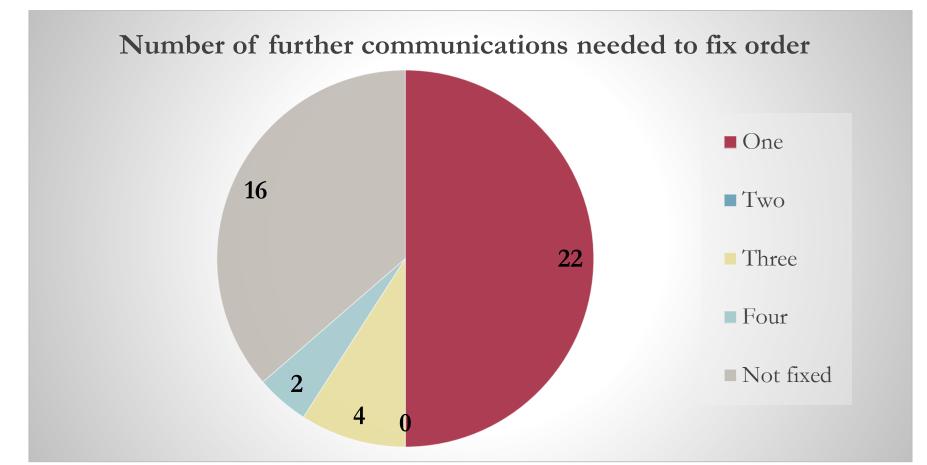
A convenience sample of adult and pediatric patients receiving EN or PN were included in an audit of orders for 10 days. Orders were audited for accuracy with RD recommendations and tracked for appropriate changes made. Formula, rate, duration, and protein modular were audited for accuracy with EN and macronutrients; electrolytes, volume, insulin, duration of infusion were audited accuracy with for PN recommendations.

RESULTS

Eight RDs audited the accuracy of 132 nutrition support adjustments on 92 patient assessments over 10 days (1/23/2023 to 2/3/2023). Of the 132 communications for order changes (102 EN, 30 PN), 44 (33%) were entered incorrectly. Of 30 PN orders, 9 (30%) were entered incorrectly. Of 102 EN orders, 35 (34%) were entered incorrectly. Twenty-two orders were corrected with one further communication, four required three communications, two required four communications, and 16 orders were never corrected. This sample of 92 out of 475 patients seen by eight RDs includes only recommendations for changes to nutrition support orders.







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Letter of Determination: IRB#:2006251-1

CONCLUSIONS

A third of all udited nutrition	A third of all audited nutrition support orders were entered incorrectly leading to increased time spent on the part of both the RD and provider to correct the order, thus delaying optimization of nutrition support.
	Accuracy, efficiency, timeliness, and quality of
support	nutrition care can be improved through the
orders were	granting of specific nutritional ordering
entered	privileges to RDs either through appointment to the medical staff or through authorization of ordering privileges without appointment to
ncorrectly.'	the medical staff, as it is within their scope of
	practice and within state licensure.
•	Further QI projects are needed to explore reasons for why orders are entered incorrectly

• Next steps include pursuing order writing abilities for RDs to align with current best practice guidelines and the official ruling of CMS in order to provide the utmost patient care in a timely manner.

to target education and process changes.

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