

NUTRITION SUPPORT TEAM







NUTRITION CARE PROCESS: RATIONALE FOR A TEAM APPROACH



"To ensure that all patients' nutritional needs are met whenever possible".1

This requires coordinated activity by catering, dietetic departments, and multi-disciplinary Nutrition Support Teams (NSTs), working with all ward-based nurses and care assistants.¹



NUTRITION CAREPROCESS: RECOMMENDATIONS



"Coordination is best achieved by hospitals having a Nutrition Steering Committee with members which include senior representation from trust management, catering, pharmacy, dietetics, nursing, and the

NUTRITION SUPPORTTEAM".1



WHAT DOES THE TERM NST MEAN?







The first Nutrition Support Team (NST) was established in the US in 1973, followed by teams across Europe.¹

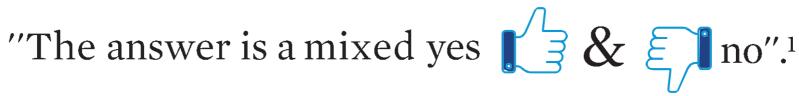


In 1992, Simon Allison defined a NST as a:

"TEAM OF DIFFERENT DISCIPLINES WITH GOOD COMMUNICATION, WHICH ENABLES NUTRITIONAL SUPPORT TO BE GIVEN IN THE BESTMANNER FOR EACH PATIENT".

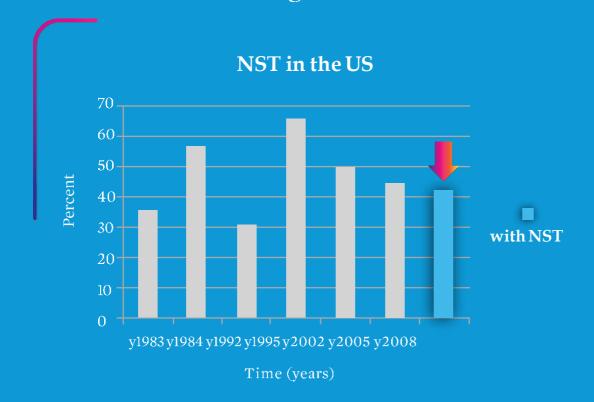


HAS THERE BEEN AN INCREASE IN THE PRESENCE OF NST IN HOSPITALS?



In the U.S.:

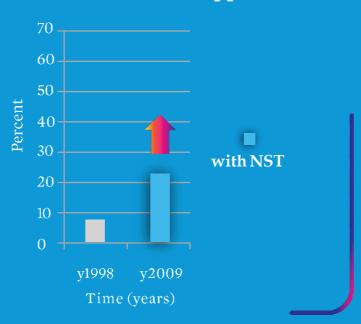
35% in 1983, 29% in 1991, 65% - highest in 1995¹



In the Philippines:

Increasing trend of NSTs from 7%to 22%1

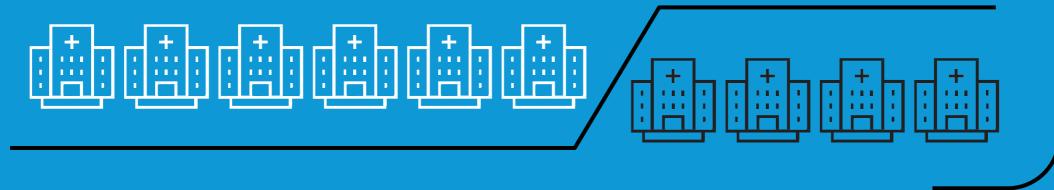
NST in the Philippines





INDIAN SCENARIO: STATUS OF NUTRITION SUPPORTSERVICES

In India, only about 6 out of 10 hospitals have a dietetics department.¹





NUTRITION SUPPORT SERVICES

are inadequate even in tertiary care hospitals and there is a need to strengthen the services for the holistic management of patients.¹

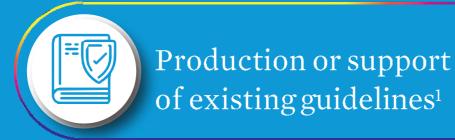


POTENTIAL ADVANTAGES OF NST



Prevention of mechanical, infective, and metabolic complications¹





Education and training of other staff, patients, and caregivers¹





Acting as advocates for patients & a point of contact for patients and caregivers¹



EFFECTIVENESS OF NST



62% of patients achieved ≥75% of the energy and protein intake¹



Complications reduced from 47% to 3%¹



Reduced ICU stay by 9 days²



Less weight loss¹

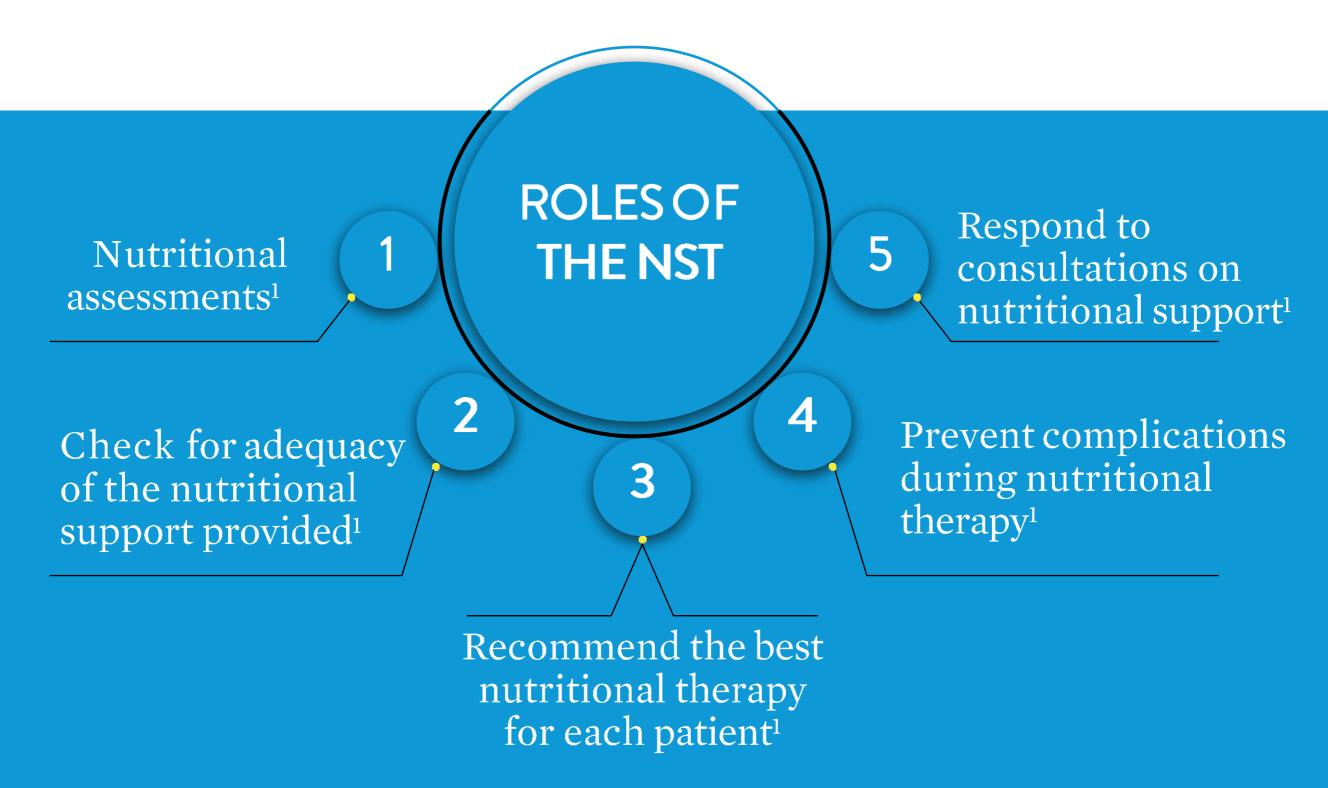


Improved muscle function¹



Improvement in quality of life¹







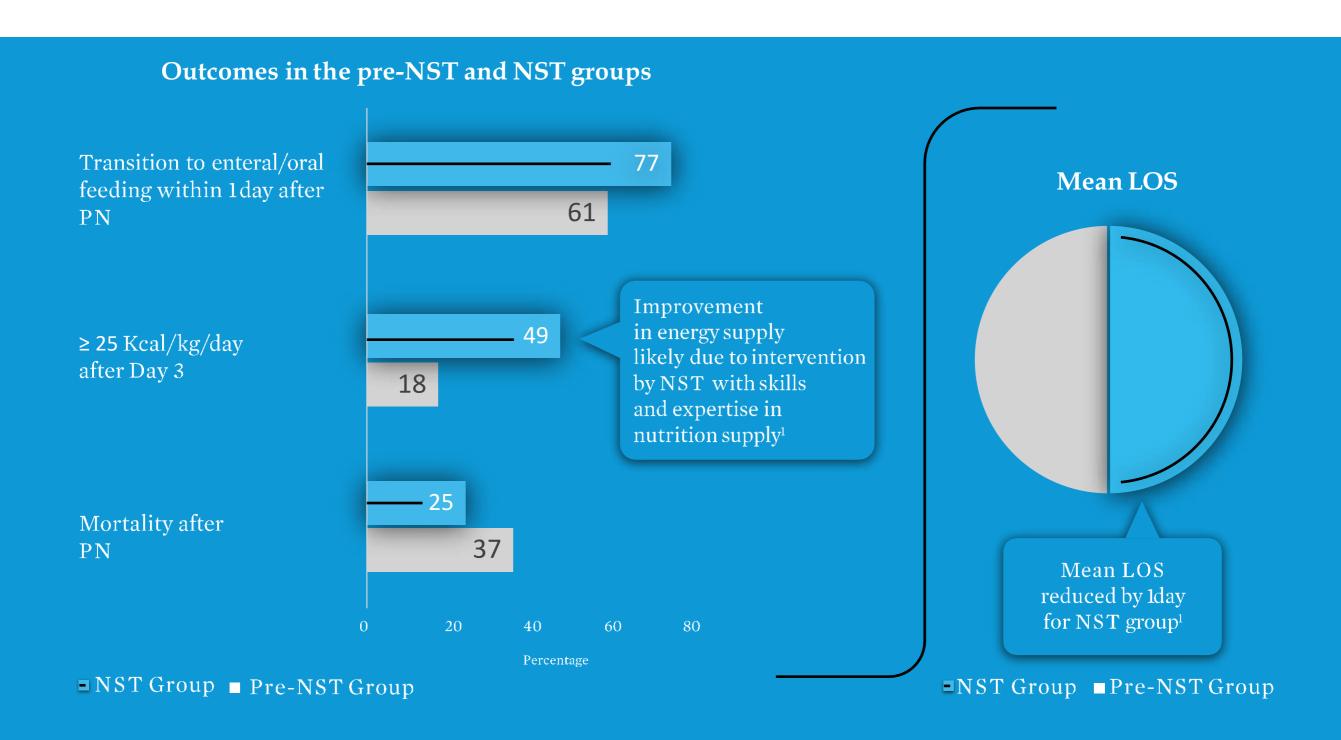
NST: AN EVIDENCE-BASED PRACTICE





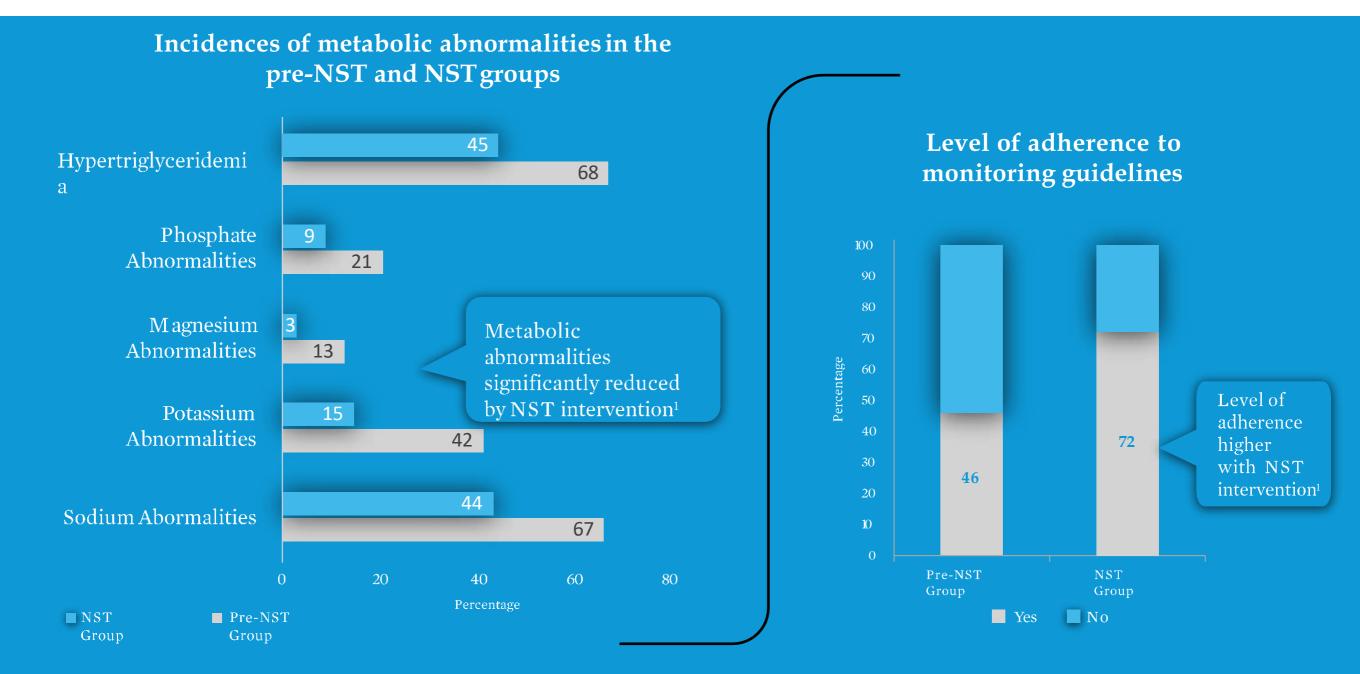


PATIENT AND NUTRITIONAL OUTCOMES





INCIDENCES OF METABOLICABNORMALITIES& LEVEL OF ADHERENCE TO MONITORING





NST: HOW TO START?



Create an Institutional Culture¹

- Know the facts Nutrition improves patient outcomes
- Support adequate and appropriate nutritional intervention
- Identify motivated champions among hospital stakeholders



Redefine Clinicians' Roles to Include Nutrition¹

- Empower dietitians
- Secure nurse and physician leadership
- Engineer teamwork (e.g., daily team huddles) to include nutrition



NST: HOW DOES ITWORK?



Recognize and Diagnose ALL Patients at Risk¹

- Assure accountability for malnutrition identification
- Use valid screening tools and criteria to assess/diagnose malnutrition
- Include fields for malnutrition characteristics in an EHR



Rapidly Implement Interventions and Continued Monitoring¹

- Establish policy to feed patients within 24 hours of 'at-risk' screen
- Create an EHR prompt for diet order when 'at-risk' screening data entered
- Monitor patients' food and oral nutritional supplement consumption



NST: HOW DOES IT MAINTAIN?



Communicate Nutrition Care Plans¹

- Leverage an EHR to standardize nutrition documentation
- When present, ensure coding of mild, moderate or severe malnutrition as a complicating condition to primary diagnosis
- Ensure that care discussions include nutrition



Develop Discharge Nutrition Care and Education Plan¹

- Ensure that the nutrition care plan is incorporated into the discharge plan
- Educate patients and their families
- Communicate with the patient's health care providers



ROLE OF EACH MEMBER OF THENST

Traditionally, NSTs have included:1



The structure and function of NSTs vary from one institution to another depending on needs, organizational culture, and available personnel.¹





Physician

ROLE OF EACH MEMBER OF THE NST

- Prescribes and manages enteral/parenteral therapy¹
- Promotes the established nutrition therapy within the host specialty¹
- Provides professional input for highly complex nutritional therapy¹
- Supports ongoing research and projects on complex nutritional therapy¹
- Informs colleagues, physicians in training, and members on the board of directors of the importance of good nutrition therapy on the ward¹





Dietitian

ROLE OF EACH MEMBER OF THE NST

- Gives advice on enteral/parenteral nutrition (indications, choice of feeding solution, nutritional goals)¹
- Advises about options for enteral/parenteral nutrition and other nutrients (e.g., immuno-nutrition, vitamins, trace elements)¹
- Edits, implements, and adapts protocols on enteral/parenteral nutrition and complex nutritional therapy¹
- Develops and interprets screening tools; initiates and performs nutritional assessment¹
- Contributes to education and conducts research on complex nutritional solutions¹





ROLE OF EACH MEMBER OF THE NST

- Gives advice on routes, methods, and systems for delivery of enteral/parenteral nutrition¹
- Assesses adequacy of access to nutrition therapy¹
- Advises on the use of tubes, feeding pumps, and enteral/parenteral equipment¹
- Implements and adapts protocols on methods of delivering enteral/parenteral nutrition to establish uniformity, save costs, and prevent mechanical complications¹
- Educates on enteral/parenteral nutrition and highly complex nutritional therapy¹
- Conducts research on complex nutritional therapy¹





ROLE OF EACH MEMBER OF THE NST

- Provides logistical support for parenteral nutrition¹
- Oversees and provides information about possible chemical/pharmaceutical interactions between parenteral nutrition components¹
- Provides professional input on the composition of parenteral nutrition, on stability and compatibility of parenteral admixtures, and on drug/medication interactions with enteral/parenteral nutrition¹
- Supports ongoing research projects on complex nutritional therapy, develops and implements parenteral nutrition protocols¹



MEETINGS AND AUDIT



The NST may meet weekly to discuss its operation, selected patients, data collection/audits, and journals.¹

The meetings may include other specialists (surgeon(s), occupational therapist, speech and language therapist, physiotherapist, etc).¹

The continuation of the NST depends on it keeping good audit data.¹

As a minimum, it must record details of:1

- All patients seen and data about every episode of
- CRS Every other complication of PN
- Infection data per 100 catheter days (at home, it is presented per 1000 days)





TEAM MEASUREMENT TOOLS FOR EVALUATION OF NST



Plotting performance using a "run" chart (measurement of performance over time) helps NSTs to determine how closely they are achieving their aim.¹

It also enables the measurement of the impact of procedural changes on the quality of care.1

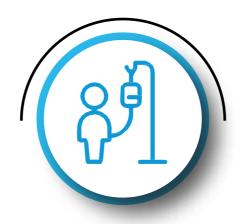


MEASURE AND TRACK





Percentage of patients for whom nutrition support is indicated according to predefined standards¹



Percentage of patients for whom the proper route of administration is used to administer nutrition support¹



Percentage of nutrition support patients with improved nitrogen balance¹



Incidence of hyper or hypoglycemia, fluid and electrolyte imbalance, and acid base alterations in nutrition support patients¹

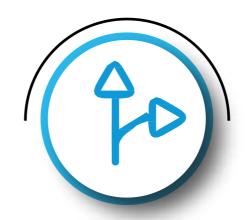


MEASURE AND TRACK





Number of nutrition support patients who sign consent forms acknowledging the risks and benefits of nutrition therapy¹



Number of patients who are given nutrition support that deviates from the prescribed treatment¹



Number of patients who experience a detrimental drug-nutrient interaction¹



Number of patients who receive nutrition support more than 2 hours after a treatment decision is made¹



WHY SHOULD A HOSPITAL INITIATE A NST IN INDIA?







If a Trust does not have a NST, it may still be necessary to justify the benefits of having one, both in terms of:

QUALITY IMPROVEMENT & COST SAVINGS1...





TYPESOF FINANCIAL COST SAVINGS WITH NST





In the U.S.:

NST reduced intangible costs¹



In the UK:

NST saved tangible costs of 50715£ by avoiding PN episodes & lowering incidence of CRS²



Additional cost savings by NST:
Reduced the number of PEG tube insertions¹



