

A Multicentre Trial to Evaluate Various Feeding Policies in Patients Admitted to Hospital with a Recent Stroke

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INTRODUCTION

Patient feeding policies, following recent stroke, vary between individual hospitals and between clinicians at the same hospital. More specifically, there is often variation in the timing and method of feeding patients with stroke and this reflects the lack of reliable evidence on what is the optimal feeding strategy. We have identified a number of important issues:

- Given the frequency of poor nutrition amongst patients who suffer a stroke and their subsequent feeding problems, should patients who can take adequate fluids or ally receive routine nutritional supplements or ally to improve their outcome?
- If patients are unable to take adequate fluid and/or food orally immediately after the stroke, should we start tube feeding early or wait for a few days to allow their swallowing to improve?
- If tube feeding is required at any stage after the stroke, is feeding via a percutaneous endoscopic gastrostomy (PEG) superior to that via the traditional nasogastric tube (NG)?
- Are there subgroups of patients (e.g. elderly or malnourished) who particularly benefit from one of these feeding policies?

These questions can only be answered reliably by comparing the outcomes of patients fed using different feeding policies in large randomised trials. The aim is to perform a 'family' of three closely related, simple randomised trials which will address *all* of these questions. The main advantages of performing a "family" of trials are that they:

- Will rapidly answer several questions at the same time.
- Can share common randomisation, data collection and follow up systems.
- Should be more efficient (i.e. less effort and money for each patient randomised) than performing completely separate trials to answer each question.
- Allow us to formally examine any interactions between the different feeding policies.

BACKGROUND

Poor nutrition is a common and under-recognised problem in patients admitted to hospital as well as in those who remain in hospital for prolonged periods (Albiin et al 1982, Sandstrom et al 1985, Cederholm & Hellstrom 1992). It is particularly frequent amongst elderly patients. It has been associated with reduced muscle strength, reduced resistance to infection and impaired wound healing (Fiatarone & Evans 1993, Potter et al 1995). Among patients with stroke, most of whom are elderly, muscle weakness and infections are very common (Davenport et al 1996). It is conceivable that malnutrition could increase the frequency of these problems and result in poorer outcomes. It is not surprising, therefore, that several workers have investigated the nutritional status of patients with recent stroke. The reported frequency of malnutrition has varied between 8% and 40% although much of this variation may be due to differences in case mix, the definitions of malnutrition, and the methods of assessment (Axelsson et al 1988, Smithard et al 1993, Unosson et al 1994, Davalos et al 1996). Furthermore, any acute illness may be responsible for a negative energy balance and greater nutritional demands and patients with stroke may be less able to meet these increased demands (Klipstein-Grobusch et al 1995). To compound the general problem of malnutrition, it has been estimated that up to 45% of hospitalised patients with stroke are unable to swallow safely, although again the reported frequency depends on the selection of cases, the timing of assessments, the sensitivity of the method used to detect swallowing problems (Gordon et al 1987, Barer 1989). Of course, even patients who are capable of swallowing liquids and food may have a poor appetite because of the effects of intercurrent illness or medication. Patients may eat more slowly because of facial weakness, lack of dentures or poor arm function. All these factors may contribute to the worsening in nutritional status which has been observed by several groups during hospital admission for stroke (Axelsson et al 1989, Smithard et al 1993, Unosson et al 1994, Davalos et al 1996).

Therefore, there seems to be good evidence that a significant proportion of patients admitted to hospital with recent stroke are malnourished and that their nutritional status may further deteriorate during the admission. However, it is less clear whether this worsens patient outcomes. There is little doubt that the outcome of patients undergoing emergency surgery, and of those with other serious illness, depend on their nutritional status and nowadays careful attention is paid to their nutrition. Few studies have investigated the influence of nutrition on outcome but malnutrition has been associated with an increased risk of death after stroke (Davalos et al 1996).

If nutrition is an important determinant of outcome in the physically ill, and in particular those with stroke, the next question is whether, by improving patients' nutrition, one might improve their outcome. There have been a large number of randomised trials, in a variety of settings, testing the effects of improving nutritional status. Most of these studies have been individually too small to demonstrate an effect but a recent systematic review of all of the available randomised trials suggests that oral or enteral (i.e. via a feeding tube) nutritional supplementation improves nutritional indicators and reduces the odds of death by 34% (95% CI 9% - 52%) (Potter et al 1996). However, this review included trials of differing methodological quality which tested various interventions in different types of patients. It also included relatively few small negative trials which may reflect a degree of publication bias and so be responsible for an over-optimistic estimate of treatment effect. None of these studies were specifically in patients with stroke and few patients with stroke were included in them. One non-randomised trial suggested that early enteral nutrition after stroke reduced length of stay in hospital but methodological limitations make this conclusion unreliable (Nyswonger & Helmchen 1992).

Even if it were shown that improving nutritional status after stroke would improve outcome, there still remain questions about when to start any supplementary feeding regime and the best way to deliver it. This applies particularly to the important minority of patients who cannot swallow safely. Indeed, increasing emphasis has been placed on detecting those patients with swallowing difficulty so their risk of aspiration pneumonia can be reduced. This is usually done by restricting oral intake and providing fluids, and sometimes food, by alternative routes. Swallowing usually recovers over the first few days or weeks which allows patients to safely take fluids and food, if necessary with a modified consistency (Gordon et al 1987, Barer 1989). However, even during this recovery phase, patients' fluid and food intake may be inadequate and some supplementation by an alternative route may be helpful.

Supplementation might be achieved by intravenous feeding but in practice this is rarely used or justified in patients with stroke who generally have a gastrointestinal tract which is well able to absorb nutrients. NG tubes are often inserted to allow fluid and food to be given to patients. However, in patients who are unable to swallow, they are not always easy to insert and perhaps because they are uncomfortable they are often pulled out by patients and have to be replaced. This adds to patient distress and interrupts any feeding regime. Furthermore, NG tubes may become displaced and cause aspiration, as well as ulceration of the nostril if use is prolonged. Some workers therefore advocate the increased use of PEG (O'Mahony & McIntyre 1995) which can be performed with little or no sedation and provides an effective and quite acceptable method of enteral feeding. However, PEG is more invasive than NG and has its own complications including aspiration, peritonitis, wound infection and haemorrhage. Indeed there is a low (about 1%), but not insignificant, risk of death related to the procedure (Larson et al 1987, Miller et al 1989, Finucane et al 1991, Pender et al 1993). The published complication rates are low but may not reflect the rates in less specialised centres which do not publish their results (Wanklyn et al 1995). Two randomised comparisons of NG and PEG tube feeding have suggested that the latter provides more effective nutritional support with less interruption of feeding (Park et al 1992, Norton et al 1996). One trial was in patients with severe stroke and showed that those fed by PEG had an implausibly large (70% relative) reduction in case fatality compared with those fed via NG tube (Norton et al 1996). However, this trial only included 30 patients and little data were provided to allow any assessment of the effectiveness of randomisation. It seems most likely that some imbalance in baseline factors accounted for much of the observed difference in outcome. However, despite its limitations, this trial raises important issues about the best way to feed patients with stroke who cannot swallow safely.

Difficulties in feeding patients with stroke who cannot swallow safely mean that feeding is sometimes delayed for perhaps a week or two and only parenteral (intravenous (IV) or subcutaneous (SC)) fluids are given. During this time many patients will improve enough to be able to take at least some food and therefore avoid or reduce the need for tube feeding. On the other hand, some clinicians prefer to introduce tube feeding very soon after the stroke although many would reserve PEG feeding for those who seem likely to require prolonged tube feeding. However, as PEG feeding becomes more widely available, it is being used earlier. The pros and cons of NG and PEG feeding after stroke have recently been reviewed but with no definite conclusions (O'Mahony & McIntyre 1995).

A recent survey of clinical practice in the UK demonstrated wide variation in the timing and method of feeding in dysphagic patients with stroke which probably reflects the lack of firm evidence that any one policy is superior (Hussein et al 1995). These authors concluded that there was a need for randomised trials to establish the place of tube feeding after stroke. Against this background, we are undertaking a "family" of large randomised trials to determine the optimum feeding policies for patients with stroke.

Research Questions:

These trials will address three important questions about the feeding policy for patients with stroke:

- In patients who can take adequate oral fluids, does routine oral nutritional supplementation increase the proportion of patients with stroke surviving without disability?
- In patients who are unable to take an adequate diet orally, does early initiation of tube feeding (NG or PEG) increase the proportion of patients with stroke surviving without severe disability?
- In patients who need tube feeding, is a PEG tube, instead of the traditional NG tube, associated with improved outcomes after stroke?

Secondary Questions:

- Does any observed advantage from nutritional supplementation apply to all patients with stroke or only to certain subgroups e.g. the elderly or malnourished?
- If a particular feeding policy reduces the case fatality, does it also increase the proportion of patients surviving with severe disability?
- Does the feeding policy have any major effect on the utilisation of hospital facilities and the final placement of patients?

TRIAL DESIGN

FOOD comprises three large, simple, multicentre, randomised trials.

Trial 1 addresses the question For those who can take adequate fluids orally should we routinely supplement the normal hospital diet?

This question is relevant to the majority of patients who can swallow on admission and also to those who survive to regain a safe swallow after a period of swallowing difficulty. Both groups may benefit from nutritional supplementation since even when patients can swallow they may not eat enough for a variety of reasons. We plan to randomise patients in the first month of admission between:

Normal hospital diet vs. Normal hospital diet plus oral supplements until hospital discharge.

Normal diet is that which is normally provided to patients and may be of altered consistency (e.g. for those with swallowing difficulties) or composition (e.g. for patients with special needs e.g. diabetics). Patients randomised to a normal hospital diet should not have nutritional supplements prescribed on their drug chart, although, if supplementation is the norm in a hospital, this might be continued as long as patients allocated normal hospital diet plus nutritional supplementation receive the prescribed supplement in addition to those routinely given.

Oral supplements comprise 120ml of a supplement containing 1.5kcal/ml three times a day prescribed on the drug chart. We have shown in our pilot studies that this approach is practical (Reilly et al 1995), provides patients with an extra 540kcals per day and the use of drug charts allows us to monitor compliance.

Trial 2 addresses the question *Does early initiation of tube feeding benefit patients?*

This is relevant to 30 to 40% of stroke patients admitted to hospital who cannot safely take adequate diet and fluids orally. We plan to randomise patients within the first week of their admission between:

Immediate tube feeding vs. Delay tube feeding for at least a week and hydrate using parenteral fluids.

If randomised to immediate tube feeding, the clinician may choose the type of tube or alternatively coenrol the patient into Trial 3 (NG vs PEG). The tube feeding should be started as soon as possible and certainly within three days of randomisation. The liquid feed would be that normally used at that institution and given in consultation with a dietitian.

Patients randomised to delayed tube feeding should not have tube feeding started for at least a week and should be hydrated using parenteral fluids (IV or SC) given according to local protocols. The randomising clinician decides if and when tube feeding should start after the week has elapsed.

Inevitably, some patients may be taking some oral fluids or food whilst still being fed predominantly via a tube or whilst receiving parenteral hydration. Patients do not have to remain 'nil by mouth'.

Trial 3 addresses the question Is tube feeding via a PEG better than that via an NG tube?

This is relevant to all stroke patients who cannot safely take adequate diet or fluids orally. We plan to randomise patients within the first month of the hospital admission between:

PEG vs. NG tube feeding.

NG tubes may be wide or small bore. Percutaneous tubes may be inserted endoscopically or radiologically, into the stomach or jejunum according to local practice. The tube feeding should be started as soon as possible and certainly within three days of randomisation. The liquid feed would be that normally used at that institution and given in consultation with a dietitian.

Duration of Feeding Regimen

The oral supplements (Trial 1) should normally be continued until hospital discharge. However, the responsible clinician may choose to stop supplements earlier if, for example, the patient is gaining excessive weight. Tube feeding should continue until the responsible clinician decides that the patient is taking adequate diet orally or that further tube feeding is futile. The reason for stopping the feeding regime should be recorded on the Hospital Discharge Form (Appendix C). This form should be completed on discharge from hospital, death or transfer out of the randomising centre, although the allocated feeding policy can be continued after discharge or transfer, if appropriate. Details of **all** types of feeding given since randomisation should be recorded on the Hospital Discharge Form (Appendix C), including those feeding regimens not randomly allocated.

If the patient has been randomised to one feeding policy but this subsequently becomes impractical or the clinician becomes certain that an alternative is better then the clinician may change the method of feeding, although our analyses will be based on intention-to-treat. Data on how often, and why, feeding policies are changed will inform our final analyses.

Inclusion Criteria

Any patient admitted to hospital with a stroke (excluding those with subarachnoid haemorrhage) within a week of onset, in whom the randomising clinician is substantially uncertain about the best feeding policy.

Patients can be randomised into Trial 2 (Immediate tube vs. Delay) within the first week of admission (or a stroke or recurrent stroke which occurs during hospital admission). For Trials 1 (Normal hospital diet vs. Oral supplements) and 3 (NG vs. PEG), patients can be randomised within a month (30 days) of hospital admission (or a stroke or recurrent stroke which occurs during hospital admission).

Exclusion Criteria

Patients who, in the opinion of the responsible clinician, are unlikely to benefit from nutritional supplementation or from PEG or NG feeding.

These might include:

- Patients with TIA or trivial stroke who are likely to remain in hospital for only a few days.
- Patients who can swallow but in whom nutritional supplementation may be contra-indicated (e.g. morbidly obese patients).
- Those in coma (i.e. unresponsive to pain) or who are very unlikely to survive more than a few days because of some severe non-stroke illness.
- Patients who have already been entered into the FOOD Trial in the previous six months.

Consent

UK Multicentre Research Ethical Committee (MREC) approval has been granted. Each collaborating centre will need to confirm local ethics committee approval.

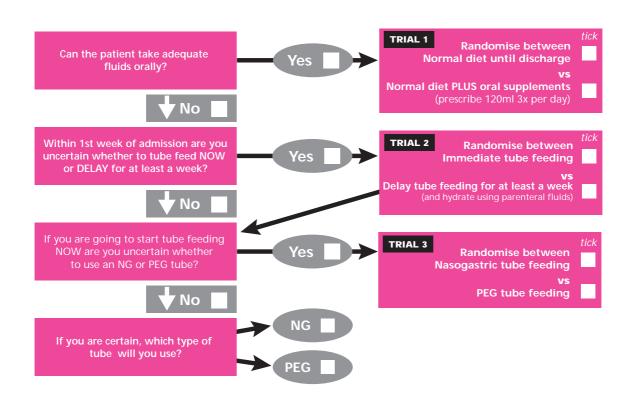
Patients (or their carers) will be given a Patient Information Booklet (Appendix F) which describes the aims of the trial and the potential risks and benefits of a variety of feeding policies. The patients (or their carers) will be given enough time to consider the trial fully and ask any questions they may have about the implications of the trial.

Consent procedures will vary from centre to centre but they will have to be approved by the local Ethics Committee. It is generally recommended that informed consent should be obtained from the patients if they are able to understand and communicate effectively. Alternatively, a close relative may give approval/agreement to participate in the trial. If the patient is unable to express his/her wishes and there are no close relatives, an independent clinician can be sought to provide approval/agreement.

Randomisation Procedure

Data, collected at baseline, will include centre identifiers, patient identifiers and information which will provide a prediction of outcome (e.g. is the patient able to lift both arms off the bed?). Data required to allow minimisation (see below) and to calculate the delay from stroke onset to hospital admission and randomisation will also be collected. A swallowing assessment, carried out by the randomising clinician or a member of his/her team, will determine which trial(s) the patient can be entered into. The swallowing assessment should be performed in line with local guidelines, but as a minimum should comprise a bedside assessment.

To randomise, the clinician completes the randomisation form (Appendix A) by answering questions relating to the patient's ability to take adequate fluids orally and their uncertainty about the best feeding policy. We have adopted a randomisation algorithm (see below) to ensure that patients enter the trial (or trials) which best addresses the responsible clinicians' uncertainties. The clinician then telephones the 24 hour randomisation service using a freephone number. At the end of the call, the operator (or system) will inform the clinician of the allocated treatment regimen which the clinician should note on the randomisation form and then ensure that the allocation is given. The randomisation form should then be faxed immediately to the FOOD Trial Co-ordinating Centre.



Minimisation

Minimisation is a widely accepted technique used to ensure that treatment groups are balanced for major prognostic factors (Pocock 1983). In this trial the following variables will be used for minimisation:

- Country
- Age (<75, > 75 years)
- Sex
- Estimated prognosis (calculated automatically, based on baseline variables).
- An assessment of the patient's nutritional status. This should be in accordance with local practices, but, as a minimum it should include an informal assessment of whether the patient is undernourished, normal or overweight.

Co-enrolment - Randomising a patient into more than one of these three trials.

We encourage clinicians to co-enrol their patients into more than one of the trials since this will:

- Maximise recruitment since patients are not ineligible because they have been previously been randomised into another of our three trials.
- Allow patients to contribute to more than one question.
- Allow us to formally investigate any interactions between the various feeding policies.

Thus patients may be co-enroled:

- at the same time in Trial 2 (Immediate tube vs. Delay) & Trial 3 (NG vs. PEG) if the randomising clinician is unsure both about the timing and type of tube feeding. Obviously, in this case all treatment options must be available to the randomising clinician.
- sequentially in Trial 2 (Immediate tube vs. Delay) then Trial 3 (NG vs. PEG) if the patients swallowing does not recover.
- sequentially in Trial 2 (Immediate tube vs. Delay) then Trial 1 (Normal hospital diet vs. Oral Supplements) if the patients swallowing improves.
- sequentially in Trial 3 (NG vs. PEG) then Trial 1 (Normal hospital diet vs. Oral Supplements) if the patients swallowing improves.
- a patient could even enter Trial 2 (Immediate tube vs. Delay) in the first week, Trial 3 (NG vs. PEG) if they are persistently dysphagic and then Trial 1 (Normal hospital diet vs. Oral Supplements) when their swallowing improves, if the clinician was uncertain about all three questions.

Of course, patients cannot be randomised twice in the same trial during the course of their hospital admission. To enter a patient into another of the three trials later in the admission, the randomising clinician would simply complete another randomisation form (Appendix A) and telephone the randomisation service again.



FOLLOW-UP

Reporting Major Adverse Events

If a patient suffers a major complication of a particular feeding regime the randomising clinician should inform the FOOD Trial Co-ordinating Centre of this by completing an Adverse Event Card (Appendix B).

Hospital Discharge Form

At discharge, transfer from the randomising centre or death, the randomising clinician, or the trial support staff in that centre will review the case notes and drug charts, complete a Hospital Discharge Form (Appendix C) and return it to the FOOD Trial Co-ordinating Centre in Edinburgh.

Clinicians who routinely transfer their patients with stroke to another ward/unit/hospital very soon after admission will need to reach an agreement with that ward/unit/hospital such that the allocated feeding regimen will be continued and that the Hospital Discharge Form will be completed on discharge, death or transfer from that ward/unit/hospital.

The data collected will be used to:

- Determine what nutritional support the patient actually received during hospital admission.
- Provide contact data to allow six month follow-up to be organised centrally.
- Provide data concerning early outcome and use of hospital facilities.
- Provide data relating to any adverse events and complications of the feeding regime.

These data should be available from the medical or nursing notes.

If a Hospital Discharge Form has not been received by the Food Trial Co-ordinating Centre before the six months follow-up is due, the FOOD Trial Co-ordinating Centre in Edinburgh will contact the randomising clinician to confirm the patient's whereabouts. If the patient is still in hospital, a hospital version of the Follow-up Form (Appendix E) will be sent to the clinician for completion. The Hospital Discharge Form should then be completed on eventual discharge, transfer from the randomising centre or death.

Six Month Follow-up Form

If the patient is still in hospital when the six month follow-up is due, the randomising clinician will be sent a hospital version of the six month follow-up form which should be completed with the patient (Appendix E).

For those patients who have been discharged, outcome will be assessed blindly via a postal (or telephone if post not possible) questionnaire (Appendix D). This will be sent to the patient directly from the FOOD Trial Co-ordinating Centre or via the National Co-ordinators (for non-UK centres). The questionnaire will establish their:

- Type of residence (own home, with relatives, residential or nursing home)[as a guide to resource use]
- Functional status degree of functional impairment on the Modified Rankin Scale,
- 'Simple questions', and Health Related Quality of Life (HRQoL) measured using EUROQoL.
- Feeding status whether they are now feeding normally or still have a feeding tube in place.

Prior to the six month follow-up, their family doctor will be contacted by post or phone to establish the patient's:

- Current address (to allow follow-up).
- Date of death (if applicable).

ANALYSES

All analyses will be based on intention-to-treat.

Primary Outcomes

The primary outcome for Trial 1 will be the proportion of patients who are surviving free of dependency (defined as a Modified Rankin <3) six months after first randomisation.

The primary outcome for Trials 2 and 3 will be the proportion of patients surviving free of severe disability (defined as a Modified Rankin <4) six months after first randomisation.

Secondary Outcomes

- Proportion of patients who are dead at one and six months.
- HRQoL amongst survivors.
- Time to hospital discharge.
- Length of stay in hospital which will provide a surrogate outcome for analysis of cost.
- Number of days of tube feeding.
- Adverse effects of feeding regimes.
- Premature cessation of feeding regimes and reasons.

Sample Size

Trial 1 (Normal hospital diet vs. Oral Supplements).

We plan to randomise at least 6000 patients divided equally between the two groups which will provide us with at least 80% power to detect an increase in the proportion of patients surviving free of dependency (Modified Rankin <3) from 52% to 56% when the null hypothesis is rejected at p-values of 0.05 and below (i.e. α =0.05, β =0.2).

Trial 2 (Immediate tube vs. Delay).

We plan to randomise at least 2000 patients divided equally between the two groups which will provide us with at least 80% power to detect an increase in the proportion of patients surviving free of severe disability (Modified Rankin <4) from 30% to 36% when the null hypothesis is rejected at p-values of 0.05 and below (i.e. α =0.05, β =0.2).

Trial 3 (NG vs. PEG).

We plan to randomise at least 1000 patients divided equally between the two groups which will provide us with at least 80% power to detect an increase in the proportion of patients surviving free of severe disability (Modified Rankin <4) from 30% to 39% when the null hypothesis is rejected at p-values of 0.05 and below (i.e. α =0.05, β =0.2).

We plan to continue to randomise patients into each of the three trials until we have achieved these minimum sample sizes in all three trials. Thus it is likely that we will exceed these sample size estimations in two of the trials to allow us to detect more modest treatment effects. Our Data Monitoring Committee may advise us to stop or prolong randomisation in any one of the three trials depending on the results of their confidential interim analyses.

Pre-specified Sub-group Analyses

We plan to explore other questions within The FOOD Trial, accepting that we may have insufficient power to come to definite conclusions at least without combining our data with those from other trials in a meta-analysis. We will address the following hypotheses:

- That the benefit of any feeding regime will depend on the patients' nutritional status at randomisation. Thus we plan to examine the effects of different feeding regimes in those classified as undernourished, normal and overweight at randomisation.
- That any benefit from a specific feeding regime will be influenced by the severity of the patients' stroke. We will therefore examine the effect of treatment in patients with mild, moderate and severe strokes as defined by their predicted prognosis at randomisation.
- That any benefits of oral supplements may be influenced by the nutritional support patients have received prior to randomisation. We will therefore examine separately the effect of oral supplements in patients randomised in Trial 1 initially or after having been first randomised in Trial 2 or 3.
- That the balance of risk and benefit of early initiation of tube feeding will depend on the type of tube feeding. We will therefore examine the difference in outcome between:
 - 1. Those randomised between immediate feeding via an NG tube vs. Delayed tube feeding for at least a week and hydration using parenteral fluids.
 - 2. Those randomised between immediate feeding via a PEG tube vs. Delayed tube feeding for at least a week and hydration using parenteral fluids.
- That feeding via an NG tube may be more appropriate than PEG for early tube feeding but that later feeding via a PEG tube will have advantages over that via an NG tube. Thus we will compare the outcomes of patients randomised between NG and PEG within the first week of admission and those randomised later.
- That a delay in starting feeding may lead to a worsening nutritional status which is impossible to compensate for later. Therefore we plan to examine the effectiveness of our various feeding regimes in patients randomised within a week of their stroke with those randomised after a week, allowing for pre-randomisation feeding and nutritional status.

TRIAL ORGANISATION

FOOD Trial Co-ordinating Centre Personnel

Principal Investigator: Dr. Martin Dennis
Trial Co-ordinator: Gina Cranswick
Trial Statistician: Dave Signorini
Trial Programmer: Vera Soosay

Steering Committee

The trial will be managed and co-ordinated by a combined scientific and administrative Steering Committee.

The scientific advisory group, with a particular interest in nutritional problems, will comprise: Campbell Chalmers, Martin Dennis (Chair), John Forbes, Subrata Ghosh, Peter Langhorne, Carole Ann McAteer, Jean McIntyre, Paul O'Neill, Jan Potter and Margaret Roberts.

The administrative, data management and trial development group will comprise: Gina Cranswick, Martin Dennis, Barbara Farrell, Anne Leigh Brown, Dave Signorini, Vera Soosay and Charles Warlow (Chair).

Data Monitoring Committee

The Data Monitoring Committee comprises: Professor C Bulpitt (London), Professor A Grant (Aberdeen, Chair), Professor G Murray (Edinburgh) and Dr P Sandercock (Edinburgh).

During the period of recruitment into the trial, interim analyses of the proportion of patients surviving free of dependency/severe disability as well as data available on other major outcome events will be supplied, in strictest confidence, to the chairman of the Data Monitoring Committee, along with any other analyses that the Committee may request. In the light of these analyses, the Data Monitoring Committee will advise the chairman of the Steering Committee if, in their view, the randomised comparisons have provided both (i) 'proof beyond reasonable doubt' that for all, or some, the intervention is clearly indicated or clearly contra-indicated and (ii) evidence that might reasonably be expected to materially influence patient management in normal practice. Appropriate criteria of proof beyond reasonable doubt cannot be specified precisely, but some members of the committee have expressed sympathy with the view that a difference of at least 3 standard deviations in an interim analysis of a major outcome event

may be needed to justify halting, or modifying, such a study prematurely. If this criterion were to be adopted, it would have the practical advantage that the exact number of interim analyses would be of little importance, and so no fixed schedule is proposed. The Steering Committee can decide whether to modify intake to the trial (or seek extra data). Unless this happens, however, the Steering Committee, the collaborators and central administrative staff will remain ignorant of the interim results.

Publication of the Trial Results

All publications relating to the main trial will be published in the name of the International Stroke Trials (IST) Collaboration - FOOD.

Abstracts relating to the main study will be submitted as the International Stroke Trials (IST) Collaboration - FOOD along with the presenter's name.

Papers and abstracts relating to 'Add-on' studies will be in the name of those collaborators who took part or the group's name, but recognise the input of the entire Collaboration by putting 'part', 'member' or 'on behalf of' the International Stroke Trials (IST) Collaboration - FOOD.

Anyone wishing to use the data generated from this trial for higher degrees, PhDs etc. must first seek the permission of the Steering Committee. All papers must be approved by the Steering Committee prior to submission for publication. Anyone wishing to use the data in this way, will be asked to sign a confidentiality agreement which will prevent them from publishing the data until the results of the main trial have been published.

No group of collaborators should publish the results of any sub-study which splits patients by treatment allocation without the agreement of the Steering Committee, on behalf of the other members of the Collaboration. Studies which report any of the process or outcome data collected as part of the main study must acknowledge the collaboration as an author e.g. Smith on behalf of the International Stroke Trials (IST) Collaboration - FOOD.

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APPENDICES: A TO G



The International Stroke Trials Collaboration (Feed Or Ordinary Diet)

RANDOMISATION FORM

Do NOT randomise unless you are uncertain about the best feeding policy for your patient

PLEASE BE READY TO PROVIDE THE FOLLOWING INFORMATION WHEN YOU MAKE THE

RANDONISATION TELEPHONE CALL ON
Has this patient been randomised into the FOOD trial before? No (KEY 0) Yes (KEY 1)
HOSPITAL DETAILS:
Country: Country number:
Hospital Name: Hospital number:
Name of responsible Consultant: Consultant number:
Randomising doctor:
Consent: Has consent been given? Yes (MUST be Yes) (KEY 1)
PATIENT DETAILS:
Family Name: Given Name/s:
Date of Birth: Sex? Male (KEY 1) Female (KEY 2)
Date stroke symptoms first noticed: Date of admission:
ABOUT THE PATIENT: (the following questions will be asked by number) (KEY 0) (KEY 9) Yes No Don't Know
1 Did the patient live alone before admission?
2 Was the patient independent in every day activities before this stroke?
ABOUT THE STROKE: (the following questions will be asked by number) (KEY 1) (KEY 0) Is the patient: Yes No
able to talk and orientated in time, place and person?
4 able to lift both their arms off the bed?
5 able to walk without help from another person?
6 able to swallow liquids safely?
7 Do you think the patient is: (Tick one box only) Under-nourished? Normal? Overweight? (KEY 1) (KEY 2) (KEY 3)
Can the patient take adequate fluids orally? Yes Normal diet until discharge vs Normal diet PLUS oral supplements
(For Yes — Key 1) (For No — Key 0) (prescribe 120ml 3x per day)
Within 1st week of admission are you uncertain whether to tube feed NOW or DELAY for at least a week? Yes TRIAL 2 Randomise between Immediate tube feeding ws
No Delay tube feeding for at least a week (and hydrate using parenteral fluids)
If you are going to start tube feeding NOW are you uncertain whether to use an NG or PEG tube? Yes TRIAL 3 Randomise between Nasogastric tube feeding Vs
No PEG tube feeding
If you are certain, which type of tube will you use? NG (Key 3) PEG (Key 4)

Thank You — Now please post or fax this form if you have used the automated randomisation service. Please keep the original for your records

Fax: +44(0) 131 332 5150

FOOD/SE/1/998

APPENDIX A: Randomisation Form Reverse

NOTES

Using the automated service

Please note that you will not be able to make a reverse charge call to this service.

Remember to fax us the Randomisation Form every time the automated service is used. Our fax number is +44 (0) 131 332 5150.

If you would like to practice using this service, please call the number provided on the front of the FOOD manual.

If you experience any difficulties with this service please fax us the completed Randomisation Form and we will return it to you with the treatment allocation clearly marked.

About the Stroke

- These questions relate to the Glasgow Coma Scale (GCS) or the Medical Research Council (MRC) Scale
- Able to swallow This assessment should be performed in line with local guidelines but, as a minimum, should comprise a bedside assessment
- Nourishment This assessment should be performed in line with local practice but, as a minimum, should include an informal assessment of nutritional status

Co-enrolment

Remember you can randomise this patient into another trial if you are uncertain how best to feed them later in this admission (e.g. NG vs PEG, Normal diet vs Normal diet PLUS oral supplements).

FOOD/SER/1/998

APPENDIX B: Adverse Event Card

	ajor å	dverse eve	ndomised into FOOD ent (in particular any licy)
TO MAINTAIN CONFIDENTIA	LITY, PLE	ASE SEND US	THIS CARD IN AN ENVELOPE
Hospital name:			
Patient's family name:			
Given names:			
Date of birth:	day	/month	/year
Date adverse event first experienced:	day	/month	/year
Details:			
Please return (in an envelope) to the Neurosciences Trials Unit, Western			
THANK YOU			for office use only FOODIMAC/1/998



Hospital Discharge Form

PLEASE COMPLETE THIS FORM ON THE PATIENT'S DISCHARGE FROM HOSPITAL, TRANSFER FROM THE CENTRE OR DEATH (whichever occurs first) AS ACCURATELY AS POSSIBLE

ospital Number:	or Hospital Name:
Patient Details:	of Hospital Name.
amily Name:	
siven Name/s:	
Pate of Birth: day month year	Affix Patient Sticker Here
ex: Male Female	
ex: Iviale Female	
ABOUT THE STROKE:	
Was stroke diagnosis confirmed in this patient?	YES NO
If not a stroke, please specify the diagnosis:	
, p, m	For office us
ABOUT THE PATIENT:	
How was the nutritional status assessed before	How was the swallowing assessed before the
first randomisation (please tick (*/) one or more boxes)	first randomisation (please tick (/) one or more boxes)
Informal assessment	Bedside assessment (doctor or nurse)
Weight	Bedside assessment (speech & language therapis
☐ Dietitian's assessment	
☐ Anthropometry	U Other: For office us
☐ Blood tests	To office as
U Other: For offic	2011
PRIOR to randomisation, did this patient i	receive:
Any enteral tube feeds? YES NO	_
SINCE randomisation, has this patient rec	eived: (please tick (🗸) one box on each line)
Any Parenteral Fluids	YES NO If YES complete PARTS 1, 5, 6 &
	YES NO If YES complete PARTS 2, 5, 6 &
Any feeding via an NG Tube	YES NO If YES complete PARTS 3, 5, 6 &
Any feeding via another type of tube (e.g. PEG)	YES NO If YES complete PARTS 4, 5, 6 &
Any feeding via another type of tube (e.g. PEG) Any normal hospital diet PLUS supplementary feed	
Any feeding via another type of tube (e.g. PEG) Any normal hospital diet PLUS supplementary feed Normal hospital diet only	YES NO If YES complete PARTS 5, 6 & 7
Any feeding via another type of tube (e.g. PEG) Any normal hospital diet PLUS supplementary feed	YES NO If YES complete PARTS 5, 6 & 7
Any feeding via another type of tube (e.g. PEG) Any normal hospital diet PLUS supplementary feed Normal hospital diet only	YES NO If YES complete PARTS 5, 6 & 7

APPENDIX C: Hospital Discharge Form — Page 2

Date first parenteral fluids given after randomis Date last parenteral fluids given: Were fluids given between these dates?	ation: day month year Dintermittently Intravenous Subcutaneous Both
ART 2 Fed via a NG Tube SINCE Ra	ndomisation (Please enter 99/99/99 or 99 if unknown)
	yes NO
Patient taking adequate diet and fluiper Patient discharged/died Difficulties encountered (please special Other (e.g. feeding futile), please special Difficulties encountered (please special Difficulties)	cify difficulties below)
Were any difficulties experienced? (p	
No Difficulties with tube insertion Nasal ulceration Other, please specify:	Patient pulled out the tube(s) Aspiration For office u
PART 3 Fed via another type of tube (e.	g. PEG) SINCE Randomisation (Please enter 99/99/99 or 99 if unknown)
Type of tube inserted Method of insertion Date first tube inserted after randomisati Number of tubes inserted SINCE randomi Is the tube still in situ? If NO, date last tube removed: Name(s) of feed given: Did PEG tube deliver satisfactory volumes of liquid fee	YES NO day month year
Patient taking adequate diet and flui Patient discharged/died Difficulties encountered (please special Other (e.g. feeding futile), please special Other (e.g. feeding futile)	cify difficulties below) cify:For office u
Were any difficulties experienced? (p	lease tick (✓) one or more boxes) Patient pulled out the tube(s)

APPENDIX C: Hospital Discharge Form — Page 3

	eeds Given SINC	E Randomisation (Please ente	er 99/99/99 or 99 i	f unknown)
					r unitino virij
Date supplementary feeding sta		· —	J year L		
Number of missed doses SIN			ceive 3 dc	ses per day)	
Are supplementary feeds	3 3	YES NO NO			
If No , date last supplemen	ntary feed given:	day month	J year L		
Name(s) of feed given: supplementary feeding stop	aned please indicat	e the nrimary reason	helow (r	please tick (/) or	ne hov only)
Patient discharged/die		c the primary reason	DCIOW (A	nease tick (V) OI	ic box orny)
		difficulties below)			
Difficulties encountered		•			
Other (e.g. feeding no lor	•		havas		For office u
Were any difficulties ex	kperienced? (piease	lick (v) one or more	Doxes)		
No				П	
Unable to swallow		Patient refuse	ed	Unwanted	weight gain
Any other, please spec	cify:				For office u
ART 5 This section shou	ıld be completed	for all patients (PI	ease enter	99/99/99 or 99 it	f unknown)
		•			
ICE this patient was first r					No L
Recurrent stroke		since randomisation	day	month year	
Neurological worsenir		since randomisation	day	month year	
Pneumonia	•	since randomisation	day	month year	
Other infections		since randomisation	day	month year	
Please specify:			,	J	
ricase specify.					For office u
	2 If so, first noted	since randomisation	day	month year	
Please specify:					
	If on final makes	olmoo romalamataatta]	For office u
Pulmonary Embolism		since randomisation	day	month year	
Deep vein thrombosis		since randomisation	day		
Pressure sores		since randomisation	day	month year	
Gastrointestinal haemorrha	•		day	month year	
Other medical complication	is I II so, first noted :	since randomisation	day	year	
Please specify:					For office u
ricase specify.					
ricase speerly.	2 If so, first noted s	since randomisation	day	month year	
, ,	2 If so, first noted	since randomisation	day	month year	
Please specify:				month year	
Please specify: Did the patient survive	to discharge from			month year	
Please specify: Did the patient survive YES NO If YES,	to discharge from go to Part 6	randomising centre		year	
Please specify: Did the patient survive YES NO If YES, 9 If NO, p	to discharge from go to Part 6 blease complete the f	randomising centre			
Please specify: Did the patient survive YES NO If YES, 9 If NO, p Date of death	e to discharge from go to Part 6 Dlease complete the f	randomising centre] month [] year	
Please specify: Did the patient survive YES NO If YES, of If NO, p Date of death Primary cause of death	e to discharge from go to Part 6 blease complete the f daymc	randomising centre collowing onth year box only)			For office u
Please specify: Did the patient survive YES NO If YES, 9 If NO, p Date of death Primary cause of death Neurological damage from	e to discharge from go to Part 6 blease complete the f daymc	randomising centre following onth year box only) ng Pneumonia	.?	Pulmona	
Please specify: Did the patient survive YES NO If YES, 9 If NO, p Date of death Primary cause of death Neurological damage from Recurrent stroke	e to discharge from go to Part 6 blease complete the f daymc in (please tick () one m initial stroke (e.g. conin	randomising centre collowing conth year box only) ng) Pneumonia Coronary hea	rt disease	Pulmona	For office u
Please specify: Did the patient survive YES NO If YES, 9 If NO, p Date of death Primary cause of death Neurological damage from Recurrent stroke Other vascular, please	e to discharge from go to Part 6 blease complete the f daymc i (please tick (🗸) one m initial stroke (e.g. coning	randomising centre following onth year box only) ng Pneumonia	rt disease	Pulmona	For office u
Please specify: Did the patient survive YES NO If YES, 9 If NO, p Date of death Primary cause of death Neurological damage from Recurrent stroke	e to discharge from go to Part 6 blease complete the f daymc i (please tick (🗸) one m initial stroke (e.g. coning	randomising centre collowing conth year box only) ng) Pneumonia Coronary hea	rt disease	Pulmona	For office u
Please specify: Did the patient survive YES NO If YES, 9 If NO, p Date of death Primary cause of death Neurological damage from Recurrent stroke Other vascular, please sp	e to discharge from go to Part 6 blease complete the f daymc in (please tick () one m initial stroke (e.g. coning especify: pecify:	randomising centre collowing conth year box only ng) Pneumonia Coronary hea	rt disease	Pulmona	For office u
Please specify: Did the patient survive YES NO If YES, If NO, p Date of death Primary cause of death Neurological damage from Recurrent stroke Other vascular, please sp Do you think this patient	e to discharge from go to Part 6 blease complete the f daymc i (please tick () one m initial stroke (e.g. coning specify: pecify: died due to trial trea	randomising centre collowing conth year box only ng) Pneumonia Coronary hea	rt disease	Pulmona	For office u
Please specify: Did the patient survive YES NO If YES, 9 If NO, p Date of death Primary cause of death Neurological damage from Recurrent stroke Other vascular, please sp	e to discharge from go to Part 6 blease complete the f daymc i (please tick () one m initial stroke (e.g. coning specify: pecify: died due to trial trea	randomising centre collowing conth year box only ng) Pneumonia Coronary hea	rt disease	Pulmona	For office u



APPENDIX C: Hospital Discharge Form — Page 4

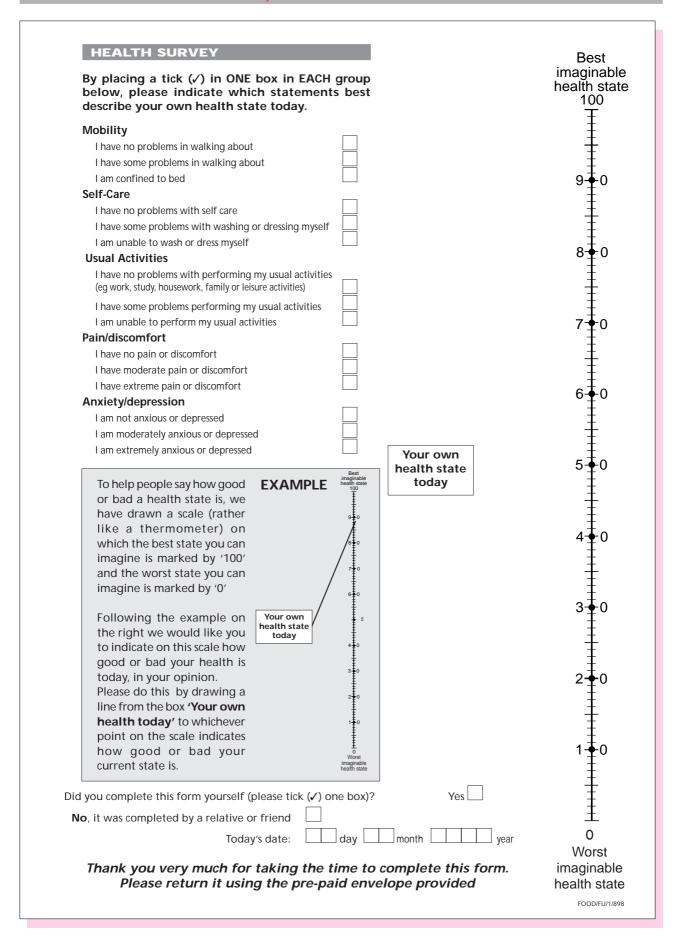
Has this patient been discharg	ged to: (tick (/) one box only)
own home, alone	at home, with partner or relative relative's home
residential home	nursing home other hospital
other, please specify:	
If so, date of discharge	day month year For office use
Patient details:	day LLJ month LLJ year LLJ J
Patient's full postal address	
on discharge	
(please PRINT clearly or attach	
an address label) Post Code	Telephone:
Family doctor details:	
Name of family doctor on discharge	
Family doctor's full postal address	
(please PRINT clearly)	
Post Code	Tolombono
	with a family doctor, please provide the name of a reliable contact below:
ir this patient is NOT registered	with a failing doctor, please provide the fiame of a renable contact below.
Contact Name	
Relationship to patient	
Full postal address	
(please PRINT clearly)	
Post Code	Telephone:
Fost code	Telephone.
Part 7 Additional In	formation additional information you may think relevant to the trial or to the patient's treatment
(Please use this space below for any	additional information you may think relevant to the trial or to the patient's treatment
(Please use this space below for any	additional information you may think relevant to the trial or to the patient's treatment
(Please use this space below for any	additional information you may think relevant to the trial or to the patient's treatment



FOLLOW-UP QUESTIONNAIRE

CONFIDE	NTIAL
Dear	
On:	
you were admitted to:	
under the care of:	
and, we would like to know how you are now. We need to kno not what you used to do, or would like to do.	ow what you are actually managing to do now,
Please tick (✓) one box on each line	YES NO
Has the stroke left you with any problems?	
Do you need help from anybody with everyday activities	es?
How do you live now? (please tick (✓) ONE box only)	
On my own	
With my partner or relatives	
Where do you live now? (please tick (✓) ONE box only)	
In my own home or my relative's home	
In a residential home	
In a nursing home	
In the next section we would like you to read the following desproblems to you and choose the one which best describes your	·
Tick the ONE box next to the sentence which best describ	pes your present state.
I have no symptoms at all	
I have a few symptoms but these do not interfere w	ith my everyday life
I have symptoms which have caused some changes in	n my life but I am still able to look after myself
I have symptoms which have significantly changed n	ny life and I need some help in looking after myself
I have quite severe symptoms which mean I need to bad as to need attention day and night	have help from other people but I am not so
I have major symptoms which severely handicap me	and I need constant attention day and night
We would also like to know how you are NOW being fed	
I now consider that I can eat normally	
I am fed via a tube in my nose	
I am fed via a tube in my side	
NOW PLEASE T	URN OVER
	FOOD/FII/1/89

APPENDIX D: Follow-up Form — Reverse





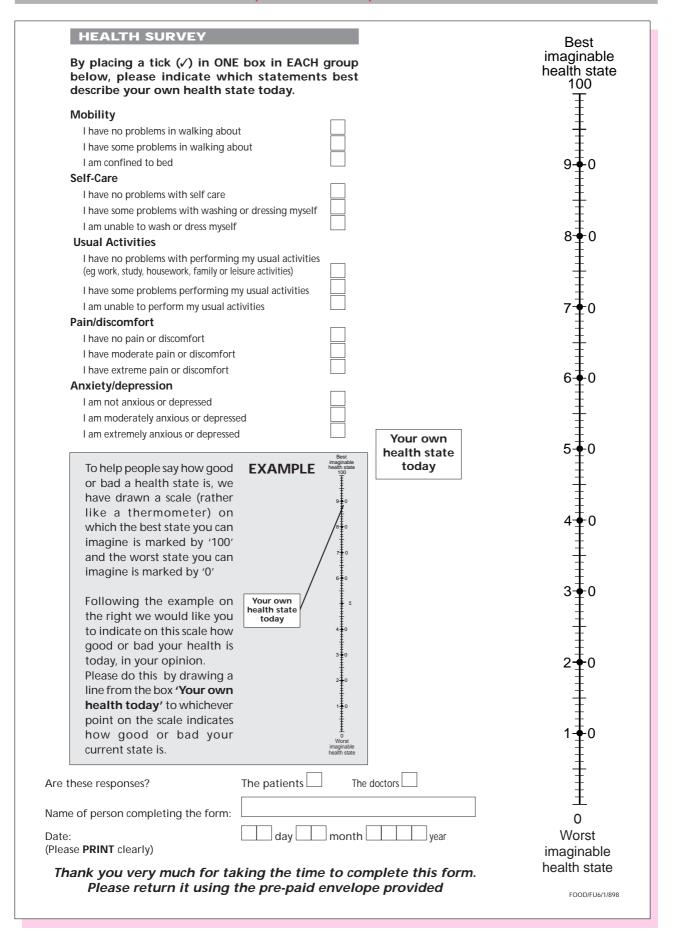
The International Stroke Trials Collaboration (Feed Or Ordinary Diet)

Doctors questionnaire – patient still in hospital at 6 months FOLLOW-UP QUESTIONNAIRE

CONFIDENTIAL

Dear	
Re:	
On:	
the above named patient was admitted to:	
under your care. It is now time for the six month follow-up of	and we understand that
this patient is still in hospital. We need to know what	can actually manage to do now.
Please tick (✓) ONE box on each line	YES NO
Has the stroke left your patient with any problems? Does your patient need help from anybody with everyday activities?	
Does your patient (please tick (✓) ONE box only)	YES NO
Have an NG tube in situ Have a PEG tube in situ	
Where is the patient NOW?	
Hospital: Ward:	
Who is responsible for their daily care (if this is NOT you)	
Please complete this form by asking the following questions. In the next section we would like your patient to read the following descript describes their present state. If your patient cannot read or complete the question their behalf.	
Tick the ONE box next to the sentence which best describes your pre-	sent state.
☐ I have no symptoms at all	
I have a few symptoms but these do not interfere with my everyon.	day life
I have symptoms which have caused some changes in my life but	
I have symptoms which have significantly changed my life and I r	need some help in looking after myself
I have quite severe symptoms which mean I need to have help from bad as to need attention day and night	om other people but I am not so
I have major symptoms which severely handicap me and I need co	onstant attention day and night
NOW PLEASE TURN C	VER
	FOOD/FU6/1/898

APPENDIX E: Follow-up Form — Hospital Version – Reversre



APPENDIX F: Patient Information Booklet



Introduction to the study

You very recently had a stroke, an interruption in the blood supply to part of the brain. In some people this causes problems with eating and drinking. We believe that your nutritional status (the food and drink you take in) will have an effect on your recovery. We want to find out, firstly, whether extra food, in addition to the ward diet, is beneficial and, secondly, if you have a swallowing problem, so that you cannot eat, which is the best method of giving you nourishment, how much and when we should start this. This is why we are asking for your help, even though we know that this is a very difficult time for you.

We are studying the best methods of giving nourishment to patients after stroke in many hospitals around the country. If you agree to take part you will receive one of five different types of treatment along with the standard care for patients with stroke. If your stroke has not affected your ability to swallow, you may receive either the standard ward diet or the standard ward diet plus an energy-rich drink. If your stroke has affected your ability to swallow, you may be asked to receive liquid food through a feeding tube.

How is the treatment given and monitored?

This depends on the way food is given. If you are able to swallow you may receive an energy-rich drink which will be given to you (three times a day) along with any drugs you have been prescribed. If you are having great difficulty with swallowing, you will receive a special liquid feed via a tube; either one which is inserted into your stomach via your nose (NG Tube) or one which is inserted through your stomach (PEG Tube). Fluids will be provided by a tube placed in a vein in your arm or just under the skin in your side if there is a delay in giving you a tube feed. This liquid feed will then run through the tube during the day and/or night. Whichever treatment you receive you will be carefully monitored throughout your hospital stay. You will leave hospital when your doctor thinks that you are well enough to go home and the timing of your discharge will not be influenced by taking part in the study. In a few months, we will either send

you a questionnaire to find out how you are doing or we may telephone you instead. A friend or relative may help you to complete the forms. In addition, we may telephone or write to your family doctor.

What are the risks and benefits?

Although we believe that the amount of nourishment may influence the long term problems after a stroke, some patients experience mild discomfort during tube insertion and some patients will occasionally experience serious complications related to the tube.

Who will be told about my illness?

Any information we collect about you will be confidential and used only for the purpose of this study. Information about you will only be available to research staff and the medical staff caring for you.

What happens now?

We would like you to think very carefully about whether or not to join the study. It is entirely voluntary and if you decide **not** to join, this will not influence your care in any way. You may also choose to stop taking the trial treatment at any time, although we would like to continue monitoring your progress.

And finally...

You must be happy about any decision you make and if we can give you any additional information to make the decision easier we will be happy to do so. Your family doctor will be informed about this study if you decide to join. Thank you for taking the time to read this leaflet.

If you would like to know	more, please contact:
(or ask the nurse to conta	ct)



The International Stroke Trials Collaboration (Feed Or Ordinary Diet)

Consent Form

I have been fully informed of the possible risks and benefits of taking part in this study. I agree to take part in the study and understand that I can withdraw from the treatment at any time, without having to give reasons and without it affecting my future medical care.

Address:	
Signature (Patient):	Date:/
Independent Witness (e.g. Nurse):	
Address:	
f the patient gives verbal consent to take part in the doctor must sign here:	e trial but is unable to sign, the responsib
Responsible Doctor: and the signature must be witnessed above	
Responsible Doctor: and the signature must be witnessed above	
Responsible Doctor: and the signature must be witnessed above Assent by Anot	her Person
Responsible Doctor: and the signature must be witnessed above Assent by Anot have been fully informed of the possible risks and be	her Person enefits of participation in this study. Lagr
Responsible Doctor: and the signature must be witnessed above Assent by Anot have been fully informed of the possible risks and be may take part in	her Person enefits of participation in this study. Lagr in the study and understand that he/she c
Responsible Doctor:and the signature must be witnessed above	her Person enefits of participation in this study. Lagr in the study and understand that he/she c
Responsible Doctor: and the signature must be witnessed above Assent by Anot have been fully informed of the possible risks and be hat may take part in withdraw from the study at any time, without having	her Person enefits of participation in this study. I agr in the study and understand that he/she can be give reasons and without it affections.
Responsible Doctor: and the signature must be witnessed above Assent by Anot have been fully informed of the possible risks and be hat may take part in withdraw from the study at any time, without having their future medical care	her Person enefits of participation in this study. I agr in the study and understand that he/she cong to give reasons and without it affection. Date:/
Responsible Doctor: and the signature must be witnessed above Assent by Anot have been fully informed of the possible risks and be hat may take part in withdraw from the study at any time, without having their future medical care Signature:	her Person enefits of participation in this study. I agr in the study and understand that he/she cong to give reasons and without it affection Date:/
Responsible Doctor: and the signature must be witnessed above Assent by Anot Assent by Anot have been fully informed of the possible risks and be hat may take part in withdraw from the study at any time, without having their future medical care Signature: Relationship with patient:	her Person enefits of participation in this study. I agr in the study and understand that he/she co ing to give reasons and without it affection Date://_ day

FOOD Protocol 1998

FOOD/C/1/898



The FOOD Trial Co-ordinating Centre Neurosciences Trials Unit Western General Hospital Edinburgh EH4 2XU Scotland

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