The Road to Recovery

Hard to swallow
Dysphagia Following Acute Stroke

A review of issues relevant to Allied Health Professionals and Nurses

Scoping Report
January 2007
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Executive Summary

The Allied Health Professions (AHPs) Clinical Effectiveness and Practice Development network was established in 2001 with the aim of promoting the use of evidence in practice, sharing best practice and building the confidence of AHPs to engage with the clinical effectiveness and clinical governance agenda.

To take this work forward, the NHS Quality Improvement Scotland Practice Development Unit (NHS QIS PDU) set up a process of engaging with AHPs to identify clinical improvement priorities within specific topic areas in June 2005 with stroke being one of the key topics. The first stroke specific project to be addressed by the network was dysphagia following acute stroke for the following reasons:

- Dysphagia (difficulty in swallowing), can be caused by many pathologies but it is a frequent and potentially serious complication of stroke.


- The NHS QIS national review of stroke services in 2005 identified the swallowing screen criteria as a challenging area for a number of sites across Scotland, with the lack of documentation and audit data being a main factor.

A scoping process was designed to focus on the issues related to practice and use of evidence by AHPs in the area of dysphagia. This report describes the process and outcome of this work.

The consensus reached by workshop participants was that there was a considerable amount of evidence and guidance already available and that the area of greatest difficulty and requiring the most development related to the translation of this evidence into practice. In essence, the challenge is in giving AHPs the knowledge, skills, confidence and competency to use the evidence to improve and develop their practice. The development of further guidance was not recommended and the NHS QIS PDU will now focus on working with key stakeholders to develop and deliver a programme of practice development during 2007/08 aimed at improving the care of people with dysphagia following acute stroke.
1 Introduction

Stroke is the third most common cause of death and the most frequent cause of severe adult disability in Scotland. Over 70,000 individuals are living with stroke and its consequences, and each year there will be approximately 15,000 new diagnoses of stroke. Immediate mortality is high and approximately 20% of stroke patients die within 30 days.

Dysphagia (difficulty in swallowing) is a frequent and potentially serious complication of stroke. Dysphagia is categorised by “difficulty moving food or liquids from the mouth to the stomach without aspiration. It may also involve difficulty in oral preparation for the swallow, such as chewing and tongue movement”

It has been estimated that as many as 45% of all stroke patients suffer from dysphagia following a stroke and although this may resolve in a large number of patients, the associated risks and complications make this an area requiring early screening and intervention. The main diagnostic test used to identify people with dysphagia is known as the swallow screen. A swallow screen is a simple water test to check for difficulty in swallowing.

The NHS QIS Stroke Services Standard (2004) identified swallow screen on the day of admission as an essential criteria in the management of patients admitted to hospital.

The national review of stroke services in 2005 identified the swallowing screen criteria as a challenging area for a number of sites across Scotland, with the lack of documentation and audit data being a main factor.
2 Background

The Allied Health Professions (AHPs) Clinical Effectiveness and Practice Development network was established in 2001 with the aim of promoting the use of evidence in practice, sharing best practice and building the confidence of AHPs to engage with the clinical effectiveness and clinical governance agenda.

To take this work forward, the NHS Quality Improvement Scotland Practice Development Unit (NHS QIS PDU) set up a process of engaging with AHPs to identify clinical improvement priorities within specific topic areas in June 2005 and rehabilitation after stroke is now one of the key topics on which the network is focusing. The first stroke specific project to be addressed by the network was dysphagia following acute stroke for the following reasons:

- Dysphagia (difficulty in swallowing), can be caused by many pathologies but it is a frequent and potentially serious complication of stroke.
- The NHS QIS national review of stroke service in 2005 identified the swallowing screen criteria as a challenging area for a number of sites across Scotland, with the lack of documentation and audit data being a main factor.

Working with nine of the allied health professions (Appendix 2), a scoping process in the area of stroke identified areas of AHP intervention which AHPs considered to be clinical improvement priorities. Priorities were identified in areas where there was a need for:

- audit or information gathering
- advice and guidance on effective treatment/intervention
- evidence about effectiveness of intervention
- sharing of best practice across Scotland
- evidence of impact of an initiative/change in practice
- consensus about best treatment or assessment tools.

The area of dysphagia following acute stroke was identified and agreed
by a multiprofessional AHP group as one of the topics which should be reviewed due to concerns raised in relation to:

- lack of a standardised approach in practice
- difficulties in achieving the SIGN guideline and QIS standards
- poor compliance with longer term follow up
- effective use of Speech and Language Therapist and Dietetic expertise
- nutritional issues in relation to supplements and nil by mouth
- lack of specific AHP guidance and best practice information.

**Patient Focus Public Involvement**

The issue of engaging with patients and the public was raised as part of the initial topic specific group process in 2005. Following discussions with the NHS QIS public partnership co-ordinator it was agreed that the scoping processes being undertaken with the AHP network related directly to clinical practice at this stage and would not include consultation with patients. Any subsequent work undertaken as a result of the scoping process will include patient participation.
3 Scoping process

Mindful of the existing guidance and evidence in the area of dysphagia, a scoping process was designed to focus on the issues related to practice and use of evidence by AHPs.

A group of healthcare practitioners with expertise or interest in the topic were invited to attend a workshop in May 2006 (Appendix 3).

The scoping process was designed with the following aims to:

- reaffirm the level of existing evidence and guidance
- identify examples of good practice
- explore issues relating to current practice, identifying areas of concern
- identify what further actions, if any, were required to improve the management of dysphagia with particular reference to AHP interventions

SIGN had already completed a systematic review of evidence in 2004 and it was agreed that a further literature review was not required. SIGN 78 was, therefore, extrapolated into a ‘mind-map’ and used as a tool to aid discussion at the scoping workshop (Appendix 4).

SIGN 78 topic areas discussed:

- Screening (including dysphagia assessment, nutrition and medication)
- Interventions (Percutaneous Endoscopic Gastronomy (PEG) and Nasogastric (NG) and potential complications)
- Discharge (including community support, continuing evaluation, remote and rural settings)
- Ethics
- Therapy (diet modification, compensatory techniques, oral care)
- Patient and carer issues
- Potential complications
- Local initiatives
- Learning and knowledge
- Other factors (including smoking, co-morbidity, respiratory disease, immobility)
Workshop participants were asked a number of questions in relation to each topic area within the SIGN guideline.

1. Is there a problem in this area?

2. What is the scale of the problem?

3. Is there already national or local development work underway in this area of which you are aware?

4. If there is a problem in this area what might the solution or recommendation be?

The scoping process developed by the Practice Developed Unit was experimental and lessons learned from this workshop have been used to further develop scoping processes and skills for use in other topic areas. Practitioners views as to the value and benefit of undertaking this sort of scoping process are important and one participant commented after the event

“I think the scoping exercise has been excellent for pinpointing the actual issues. Very often the first reaction is to ‘get more evidence’ and I am pleased that we resisted that and were able to get to see what the true issues were.”
4 Outcomes and Findings

The discussion highlighted that, despite the evidence in relation to dysphagia management, this area continues to be a challenge and of concern for many practitioners. The consensus reached by participants was that there was a considerable amount of evidence and guidance already available, and the area of greatest difficulty and requiring the most development related to the translation of this evidence into practice. In essence, the challenge is in giving AHPs the knowledge, skills, confidence and competency to use the evidence to improve and develop their practice.

The development of further guidance was not recommended, and the NHS QIS PDU will now focus on working with key stakeholders to develop and deliver a programme of practice development during 2007/08 aimed at improving the care of people with dysphagia following acute stroke.
Appendix 1
Topic Specific Group Process

AHP Clinical Effectiveness & Practice Development Network
Topic Specific Group Process

Horizon Scanning

Over 80 AHPs from across Scotland identify top clinical improvement priorities for their profession in the topic area

Theme and prioritise clinical improvement priorities

Obtain supporting information re clinical priorities

Obtain evidence

Obtain further evidence on top 5

Obtain further supporting information & advice re recommendations

Topic Specific Group identify top 5 clinical improvement priorities

Meet with key stakeholders (Internal & external)

Level 1 Stakeholders - Experts in field/Research organisations/National Organisations with interest in topic/NHS QIS decision-makers

Level 2 Stakeholders - Clinicians in field who may be interested in taking forward proposals

Level 3 Stakeholders - AHP CE & PD Network, Professional Bodies, other interested parties

Final recommendations

Report review by TSG & AHP Clinical Effectiveness & Practice Development Forum

Final report to NHS QIS

NHS QIS Topic Selection Process

Uni-professional Meetings to promote topics outwith top 5 clinical improvement priorities
(Attendees: TSG member, regional representatives & key stakeholders)

Masterclass Events

Timescales

April - July 2005

Aug 2005

Sep 2005

Oct 2005

Oct - Nov 2005

Nov 2005

Nov 2005

Dec 2005

Jan - June 2006

Nov 2007 - March 2008
## Appendix 2
### Allied Health Professions Network Members

<table>
<thead>
<tr>
<th>Role</th>
<th>Description</th>
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<tbody>
<tr>
<td>Arts Therapists</td>
<td>use music, art or drama as a therapeutic intervention to help people with physical, mental, social and emotional difficulties</td>
</tr>
<tr>
<td>Dietitians</td>
<td>translate the science of nutrition into practical information about food. They work with people to promote nutritional wellbeing, prevent food related problems and treat disease</td>
</tr>
<tr>
<td>Occupational Therapists</td>
<td>help people to overcome physical, psychological or social problems arising from illness or disability, by concentrating not on what they are unable to do, but on what they may be able to achieve</td>
</tr>
<tr>
<td>Orthoptists</td>
<td>assess and manage a range of eye problems, mainly those effecting the way the eyes move, such as squint (strabismus) and lazy eye (amblyopia)</td>
</tr>
<tr>
<td>Orthotists</td>
<td>provide braces, splints and special footwear to help patients with movement difficulties and to relieve discomfort</td>
</tr>
<tr>
<td>Prosthetists</td>
<td>design and fit artificial replacements or prostheses for upper and lower limbs</td>
</tr>
<tr>
<td>Podiatrists</td>
<td>specialise in the assessment, treatment and management of patients with foot and lower-limb disorders. They play a particularly important role in helping people to stay mobile and, therefore independent</td>
</tr>
<tr>
<td>Physiotherapists</td>
<td>treat the physical problems caused by accidents illness and ageing, particularly those that affect the muscles, bones, heart, circulation and lungs</td>
</tr>
<tr>
<td>Radiographers - Diagnostics</td>
<td>produce high-quality images of organs, limbs and other parts of the body so that disease and injuries can be assessed and diagnosed</td>
</tr>
<tr>
<td>Radiographers - Therapeutic</td>
<td>use high-energy radiation to treat cancer and other conditions</td>
</tr>
<tr>
<td>Speech and Language Therapists</td>
<td>work with people who have problems with communication, including speech defects, or with chewing or swallowing</td>
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## Appendix 3
### Dysphagia Workshop Membership

<table>
<thead>
<tr>
<th>Name</th>
<th>Title, organisation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sheena Borthwick</td>
<td>Speech &amp; Language Therapist; Clinical Specialist in Stroke, NHS Lothian</td>
</tr>
<tr>
<td>Iris Clarke</td>
<td>Speech &amp; Language Therapy Advisor for Adult Disorders, NHS Highland</td>
</tr>
<tr>
<td>Helen Davidson</td>
<td>Catering Review Dietitian, NHS Scotland Food and Nutrition Adviser, NHS Greater Glasgow &amp; Clyde</td>
</tr>
<tr>
<td>Martin Dennis</td>
<td>Professor of Stroke Medicine, University of Edinburgh</td>
</tr>
<tr>
<td>Sheila Fettes</td>
<td>Speech &amp; Language Therapy Advisor for Adult Disorders, NHS Highland</td>
</tr>
<tr>
<td>Rachel Haddock</td>
<td>Charge Nurse, NHS Tayside</td>
</tr>
<tr>
<td>Karen Krawezyk</td>
<td>Speech &amp; Language Therapist, NHS Greater Glasgow &amp; Clyde</td>
</tr>
<tr>
<td>Morag Ogilvie</td>
<td>Senior Dietitian, NHS Forth Valley</td>
</tr>
<tr>
<td>Rosemary Richardson</td>
<td>Clinical Effectiveness Professional Development Lead Dietetics, NHS Greater Glasgow &amp; Clyde</td>
</tr>
<tr>
<td>Joanna Saunders</td>
<td>Acting Team Leader – Community Enteral Nutrition Team, NHS Lothian</td>
</tr>
<tr>
<td>Fiona Small</td>
<td>Senior I Physiotherapist – Acute Stroke Unit, NHS Lothian</td>
</tr>
<tr>
<td>Beatrice Wood</td>
<td>Speech &amp; Language Therapist, NHS Highland</td>
</tr>
</tbody>
</table>

### NHS QIS Representatives

- **June Wylie**: Professional Practice Development Officer – AHPs
- **Penny Bond**: Professional Practice Development Officer – Nurses
- **Michelle Richmond**: Practice Development Project Co-ordinator
- **Rosemary Hector**: Practice Development Project Co-ordinator
- **Richard McManus**: Business Analyst

### Sponsor Director

- **Jan Warner**: Director of Performance Assessment & Practice Development
Appendix 4
Mind Map of SIGN Guideline
Appendix 5

Bibliography

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