

# NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE

## Interventional Procedures Programme

Procedure Name: **Inserting a drug eluting stent after endoscopic sinus surgery to treat chronic sinusitis (963/1)**

Name of Specialist Advisor: **Mr Chris Potter**

Specialist Society: **ENT UK**

Please complete and return to: [azeem.madari@nice.org.uk](mailto:azeem.madari@nice.org.uk) OR [sally.compton@nice.org.uk](mailto:sally.compton@nice.org.uk)

### **1 Do you have adequate knowledge of this procedure to provide advice?**

Yes.

No – please return the form/answer no more questions.

#### **1.1 Does the title used above describe the procedure adequately?**

Yes.

No. If no, please enter any other titles below.

**Comments:**

### **2 Your involvement in the procedure**

#### **2.1 Is this procedure relevant to your specialty?**

Yes.

Is there any kind of inter-specialty controversy over the procedure?

No. If no, then answer no more questions, but please give any information you can about who is likely to be doing the procedure.

**Comments:**

The next two questions are about whether you carry out the procedure, or refer patients for it. If you are in a specialty that normally carries out the procedure please answer question 2.2.1. If you are in a specialty that normally selects or refers patients for the procedure please answer question 2.2.2.

**2.2.1 If you are in a specialty which does this procedure, please indicate your experience with it:**

I have never performed this procedure.

I have performed this procedure at least once.

I perform this procedure regularly.

**Comments:**

Have seen videos and performed simulation of procedure on cadaveric specimen.

**2.2.2 If your specialty is involved in patient selection or referral to another specialty for this procedure, please indicate your experience with it.**

I have never taken part in the selection or referral of a patient for this procedure.

I have taken part in patient selection or referred a patient for this procedure at least once.

I take part in patient selection or refer patients for this procedure regularly.

**Comments:**

**2.3 Please indicate your research experience relating to this procedure (please choose one or more if relevant):**

I have undertaken bibliographic research on this procedure.

I have undertaken research on this procedure in laboratory settings (e.g. device-related research).

I have undertaken clinical research on this procedure involving patients or healthy volunteers.

I have had no involvement in research on this procedure.

Other (please comment)

**Comments:**

### 3 Status of the procedure

#### 3.1 Which of the following best describes the procedure (choose one):

- Established practice and no longer new.
- A minor variation on an existing procedure, which is unlikely to alter that procedure's safety and efficacy.
- Definitely novel and of uncertain safety and efficacy.
- The first in a new class of procedure.

#### Comments:

Stent inserted at end of procedure to prevent scarring and stenosis of sinus drainage pathway.

#### 3.2 What would be the comparator (standard practice) to this procedure?

Endoscopic sinus surgery without stent insertion- packing or Sinufoam commonly inserted at end of procedure.

#### 3.3 Please estimate the proportion of doctors in your specialty who are performing this procedure (choose one):

- More than 50% of specialists engaged in this area of work.
- 10% to 50% of specialists engaged in this area of work.
- Fewer than 10% of specialists engaged in this area of work.
- Cannot give an estimate.

#### Comments:

Endoscopic sinus surgery extremely common procedure, but relatively few ENT surgeons currently using stents outside of major centres.

### 4 Safety and efficacy

#### 4.1 What are the adverse effects of the procedure?

Please list adverse events and major risks (even if uncommon) and, if possible, estimate their incidence, as follows:

##### 1. Theoretical adverse events

Fungal infection secondary to high local steroid concentration. Systemic absorption of steroids leading to idiosyncratic complications (femoral head necrosis etc). Foreign

body reaction to stent components, biofilm formation on stent. Migration of stent to another anatomical location, possible aspiration/swallowing..

2. Anecdotal adverse events (known from experience)

nil

3. Adverse events reported in the literature (if possible please cite literature)

Metallic stent retained after failure of removal leading to infection.

Kounis NG, Soufras GD, Hahalis G. Stent hypersensitivity and infection in sinus cavities. *Allergy & Rhinology* 2013;4(3):e162-e165. doi:10.2500/ar.2013.4.0071.

Sjogren PP, Parker NP, Boyer HC. Retained drug-eluting stents and recalcitrant chronic rhinosinusitis: A case report. *Allergy & Rhinology* 2013;4(1):e45-e48. doi:10.2500/ar.2013.4.0042.

Toxic shock syndrome

Toxic shock syndrome associated with frontal sinus stents.

*Chadwell JS, Gustafson LM, Tami TA*

*Otolaryngol Head Neck Surg. 2001 May; 124(5):573-4*

Implant blockage and granulation build-up in obsolete non-biodegradable stents

*Laryngoscope. 2000;110(7);1179-1182*

**4.2 What are the key efficacy outcomes for this procedure?**

Recurrent sinus disease requiring revision surgery, long term maintenance of sinus patency on clinical examination, SNOT score.

**4.3 Are there uncertainties or concerns about the efficacy of this procedure? If so, what are they?**

I am unaware of any major long term trials randomized controlled trials, but there have been a number of recent small studies:

Catalano PJ, Thong M, Weiss R, Rimash T. The MicroFlow Spacer: A drug-eluting stent for the ethmoid sinus. *Indian J Otolaryngol Head Neck Surg. 2011;63(3):279-284*  
N=40, 6months follow-up

Forwith KD, Chandra RK, Yun PT, et al. ADVANCE: A multisite trial of bioabsorbable steroid-eluting sinus implants. Laryngoscope. 2011;121(11):2473-2480  
n=50, 6 months follow-up

Marple BF, Smith TL, Han JK, et al. Advance II: A prospective, randomized study assessing safety and efficacy of bioabsorbable steroid-releasing sinus implants. Otolaryngol Head Neck Surg. 2012;146(6):1004-1011.

N=105, heterogeneous population

#### **4.4 What training and facilities are required to undertake this procedure safely?**

A competent sinus surgeon should need very little training to safely place a stent, but cadaveric simulation training would seem appropriate, and the availability of navigation equipment for early cases would be prudent.

#### **4.5 Are there any major trials or registries of this procedure currently in progress? If so, please list.**

I am not involved in or aware of any major current studies.

#### **4.6 Are you aware of any abstracts that have been *recently* presented/published on this procedure that may not be listed in a standard literature search, e.g. PUBMED? (This can include your own work). If yes, please list.**

no

#### **4.7 Is there controversy, or important uncertainty, about any aspect of the way in which this procedure is currently being done or disseminated?**

Not to my knowledge.

## **5 Audit Criteria**

**Please suggest a minimum dataset of criteria by which this procedure could be audited.**

**5.1 Outcome measures of benefit (including commonly used clinical outcomes – both short and long-term; and quality of life measures):**

**SNOT 23, Lund-Kennedy score of endoscopic postoperative appearance, Lund-McKay CT score (if performed)**

**5.2 Adverse outcomes (including potential early and late complications):**

**Bleeding, implant migration/retention, adverse effects of steroids.**

## **6 Trajectory of the procedure**

**6.1 In your opinion, what is the likely speed of diffusion of this procedure?**

Slow outside of major tertiary centres. Costs would appear to limit routine use in uncomplicated sinus surgery. For complex revision cases it may gain more traction.

**6.2 This procedure, if safe and efficacious, is likely to be carried out in (choose one):**

Most or all district general hospitals.

A minority of hospitals, but at least 10 in the UK.

Fewer than 10 specialist centres in the UK.

Cannot predict at present.

**Comments:**

**6.3 The potential impact of this procedure on the NHS, in terms of numbers of patients eligible for treatment and use of resources, is:**

Major.

Moderate.

Minor.

**Comments:**

## 7 Other information

7.1 Is there any other information about this procedure that might assist NICE in assessing the possible need to investigate its use?

## 8 Data protection and conflicts of interest

### 8.1 Data protection statement

*The Institute is committed to transparency. As part of this commitment your name and specialist society will be placed in the public domain, in future publications and on our website ([www.nice.org.uk](http://www.nice.org.uk)) and therefore viewable worldwide. This information may be passed to third parties connected with the work on interventional procedures.*

*A copy of the completed Specialist Adviser advice will be sent to the Specialist Society who nominated the Specialist Adviser.*

Specialist Advisers should be aware that full implementation of the Freedom of Information Act 2000 may oblige us to release Specialist Advice from 2005. The Freedom of Information Act 2000 favours the disclosure of information however requests will be considered on a case by case basis. If information is made available, personal information will be removed in accordance with the Data Protection Act 1998. In light of this please ensure that you have not named or identified individuals in your comments.

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### 8.2 Declarations of interest by Specialist Advisers advising the NICE Interventional Procedures Advisory Committee

Please state any potential conflicts of interest, or any involvements in disputes or complaints, relevant to this procedure. Please use the “Conflicts of Interest for Specialist Advisers” policy (attached) as a guide when declaring any conflicts of interest. Specialist Advisers should seek advice if required from the Associate Director – Interventional Procedures.

Do you or a member of your family<sup>1</sup> have a **personal pecuniary** interest?  
The main examples are as follows:

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<sup>1</sup> ‘Family members’ refers to a spouse or partner living in the same residence as the member or employee, children for whom the member or employee is legally responsible, and adults for whom the member or employee is legally responsible (for example, an adult whose full power of attorney is held by the individual).



**Consultancies or directorships** attracting regular or occasional payments in cash or kind  YES

NO

**Fee-paid work** – any work commissioned by the healthcare industry – **this includes income earned in the course of private practice**  YES

NO

**Shareholdings** – any shareholding, or other beneficial interest, in shares of the healthcare industry  YES

NO

**Expenses and hospitality** – any expenses provided by a healthcare industry company beyond those reasonably required for accommodation, meals and travel to attend meetings and conferences  YES

NO

**Investments** – any funds which include investments in the healthcare industry  YES

NO

Do you have a **personal non-pecuniary** interest – eg have you made a public statement about the topic or do you hold an office in a professional organisation or advocacy group with a direct interest in the topic?  YES

NO

Do you have a **non-personal** interest? The main examples are as follows:

**Fellowships** endowed by the healthcare industry  YES

NO

**Support by the healthcare industry or NICE** that benefits his/her position or department, eg grants, sponsorship of posts  YES

NO

**If you have answered YES to any of the above statements please describe the nature of the conflict(s) below.**

**Comments:**

Thank you very much for your help.

**Professor Bruce Campbell, Chairman,  
Interventional Procedures Advisory  
Committee**

**Professor Carole Longson, Director,  
Centre for Health Technology  
Evaluation.**

**February 2010**

## Conflicts of Interest for Specialist Advisers

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  - 1.1 Any conflicts of interest set out below should be declared on the questionnaire the Specialist Adviser completes for the procedure.
  - 1.2 Specialist Advisers should seek advice if required from the Associate Director – Interventional Procedures.
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  - 2.1 A personal pecuniary interest involves a current personal payment to a Specialist Adviser, which may either relate to the manufacturer or owner of a product or service being evaluated, in which case it is regarded as ‘**specific**’ or to the industry or sector from which the product or service comes, in which case it is regarded as ‘**non-specific**’. The main examples are as follows.
    - 2.1.1 **Consultancies** – any consultancy, directorship, position in or work for the healthcare industry that attracts regular or occasional payments in cash or kind (this includes both those which have been undertaken in the 12 months preceding the point at which the declaration is made and which are planned but have not taken place).
    - 2.1.2 **Fee-paid work** – any work commissioned by the healthcare industry for which the member is paid in cash or in kind (this includes both those which have been undertaken in the 12 months preceding the point at which the declaration is made and which are planned but have not taken place).
    - 2.1.3 **Shareholdings** – any shareholding, or other beneficial interest, in shares of the healthcare industry that are either held by the individual or for which the individual has legal responsibility (for example, children, or relatives whose full Power of Attorney is held by the individual). This does not include shareholdings through unit trusts, pensions funds, or other similar arrangements where the member has no influence on financial management.
    - 2.1.4 **Expenses and hospitality** – any expenses provided by a healthcare industry company beyond that reasonably required for accommodation, meals and travel to attend meetings and conferences (this includes both those which have been undertaken in the 12 months preceding the point at which the declaration is made and which are planned but have not taken place).
    - 2.1.5 **Investments** – any funds which include investments in the healthcare industry that are held in a portfolio over which individuals have the ability to instruct the fund manager as to the composition of the fund.
  - 2.2 No personal interest exists in the case of:
    - 2.2.1 assets over which individuals have no financial control (for example, wide portfolio unit trusts and occupational pension funds) and where

the fund manager has full discretion as to its composition (for example, the Universities Superannuation Scheme)

2.2.2 accrued pension rights from earlier employment in the healthcare industry.

### 3 **Personal family interest**

3.1 This relates to the personal interests of a family member and involves a **current payment** to the family member of the Specialist Adviser. The interest may relate to the manufacturer or owner of a product or service being evaluated, in which case it is regarded as '**specific**', or to the industry or sector from which the product or service comes, in which case it is regarded as '**non-specific**'. The main examples include the following.

3.1.1 Any consultancy, directorship, position in or work for a healthcare industry that attracts regular or occasional payments in cash or in kind.

3.1.2 Any fee-paid work commissioned by a healthcare industry for which the member is paid in cash or in kind.

3.1.3 Any shareholdings, or other beneficial interests, in a healthcare industry which are either held by the family member or for which an individual covered by this Code has legal responsibility (for example, children, or adults whose full Power of Attorney is held by the individual).

3.1.4 Expenses and hospitality provided by a healthcare industry company (except where they are provided to a general class of people such as attendees at an open conference)

3.1.5 Funds which include investments in the healthcare industry that are held in a portfolio over which individuals have the ability to instruct the fund manager as to the composition of the fund.

3.2 No personal family interest exists in the case of:

3.2.1 assets over which individuals have no financial control (for example, wide portfolio unit trusts and occupational pension funds) and where the fund manager has full discretion as to its composition (for example, the Universities Superannuation Scheme)

3.2.2 accrued pension rights from earlier employment in the healthcare industry.

### 4 **Personal non-pecuniary interests**

These might include, but are not limited to:

4.1 a clear opinion, reached as the conclusion of a research project, about the clinical and/or cost effectiveness of an intervention under review

4.2 a public statement in which an individual covered by this Code has expressed a clear opinion about the matter under consideration, which could reasonably be interpreted as prejudicial to an objective interpretation of the evidence

- 4.3 holding office in a professional organisation or advocacy group with a direct interest in the matter under consideration
- 4.4 other reputational risks in relation to an intervention under review.

## **5 Non-personal interests**

5.1 A non-personal interest involves payment that benefits a department or organisation for which a Specialist Advisor is responsible, but that is not received by the Specialist Advisor personally. This may either relate to the product or service being evaluated, in which case it is regarded as '**specific,**' or to the manufacturer or owner of the product or service, but is unrelated to the matter under consideration, in which case it is regarded as '**non-specific**'. The main examples are as follows.

5.1.1 **Fellowships** – the holding of a fellowship endowed by the healthcare industry.

5.1.2 **Support by the healthcare industry or NICE** – any payment, or other support by the healthcare industry or by NICE that does not convey any pecuniary or material benefit to a member personally but that does benefit his/her position or department. For example:

- a grant from a company for the running of a unit or department for which a Specialist Advisor is responsible
- a grant, fellowship or other payment to sponsor a post or member of staff in the unit for which a Specialist Adviser is responsible. This does not include financial assistance for students
- the commissioning of research or other work by, or advice from, staff who work in a unit for which the specialist advisor is responsible
- one or more contracts with, or grants from, NICE.

5.2 Specialist Advisers are under no obligation to seek out knowledge of work done for, or on behalf of, the healthcare industry within departments for which they are responsible if they would not normally expect to be informed.

# NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE

## Interventional Procedures Programme

Procedure Name: **Inserting a drug eluting stent after endoscopic sinus surgery to treat chronic sinusitis (963/1)**

Name of Specialist Advisor: **Professor Nirmal Kumar**

Specialist Society: **ENT UK**

Please complete and return to: [azeem.madari@nice.org.uk](mailto:azeem.madari@nice.org.uk) OR [sally.compton@nice.org.uk](mailto:sally.compton@nice.org.uk)

### **1 Do you have adequate knowledge of this procedure to provide advice?**

Yes.

No – please return the form/answer no more questions.

#### **1.1 Does the title used above describe the procedure adequately?**

Yes.

No. If no, please enter any other titles below.

**Comments:**

### **2 Your involvement in the procedure**

#### **2.1 Is this procedure relevant to your specialty?**

Yes.

Is there any kind of inter-specialty controversy over the procedure?

No. If no, then answer no more questions, but please give any information you can about who is likely to be doing the procedure.

**Comments:**

**The next two questions are about whether you carry out the procedure, or refer patients for it. If you are in a specialty that normally carries out the procedure please answer question 2.2.1. If you are in a specialty that normally selects or refers patients for the procedure please answer question 2.2.2.**

**2.2.1 If you are in a specialty which does this procedure, please indicate your experience with it:**

- I have never performed this procedure.
- I have performed this procedure at least once.
- I perform this procedure regularly.

**Comments:**

**2.2.2 If your specialty is involved in patient selection or referral to another specialty for this procedure, please indicate your experience with it.**

- I have never taken part in the selection or referral of a patient for this procedure.
- I have taken part in patient selection or referred a patient for this procedure at least once.
- I take part in patient selection or refer patients for this procedure regularly.

**Comments:**

**2.3 Please indicate your research experience relating to this procedure (please choose one or more if relevant):**

- I have undertaken bibliographic research on this procedure.
- I have undertaken research on this procedure in laboratory settings (e.g. device-related research).
- I have undertaken clinical research on this procedure involving patients or healthy volunteers.
- I have had no involvement in research on this procedure.
- Other (please comment)

**Comments:**

### 3 Status of the procedure

#### 3.1 Which of the following best describes the procedure (choose one):

- Established practice and no longer new.
- A minor variation on an existing procedure, which is unlikely to alter that procedure's safety and efficacy.
- x Definitely novel and of uncertain safety and efficacy.
- The first in a new class of procedure.

**Comments:**

#### 3.2 What would be the comparator (standard practice) to this procedure?

Conventional endoscopic sinus surgery

#### 3.3 Please estimate the proportion of doctors in your specialty who are performing this procedure (choose one):

- More than 50% of specialists engaged in this area of work.
- 10% to 50% of specialists engaged in this area of work.
- x Fewer than 10% of specialists engaged in this area of work.
- Cannot give an estimate.

**Comments:**

### 4 Safety and efficacy

#### 4.1 What are the adverse effects of the procedure?

Please list adverse events and major risks (even if uncommon) and, if possible, estimate their incidence, as follows:

##### 1. Theoretical adverse events

Potential for damage to adjacent vital structures including cribriform plate causing CSF leak or orbital lamina causing eye problems. Also potential for uncontrolled steroid absorption

2. Anecdotal adverse events (known from experience)

Not known

3. Adverse events reported in the literature (if possible please cite literature)

None reported

**4.2 What are the key efficacy outcomes for this procedure?**

Regression of nasal polyps with resolution of sino-nasal symptoms

**4.3 Are there uncertainties or concerns about the *efficacy* of this procedure? If so, what are they?**

Implants used and the risks of surgery

**4.4 What training and facilities are required to undertake this procedure safely?**

Additional training above that of standard for endoscopic sinus surgery including practice on cadavers or models

**4.5 Are there any major trials or registries of this procedure currently in progress? If so, please list.**

Not known



**4.6 Are you aware of any abstracts that have been *recently* presented/ published on this procedure that may not be listed in a standard literature search, e.g. PUBMED? (This can include your own work). If yes, please list.**

**Not known**

**4.7 Is there controversy, or important uncertainty, about any aspect of the way in which this procedure is currently being done or disseminated?**

**Not known**

## **5 Audit Criteria**

**Please suggest a minimum dataset of criteria by which this procedure could be audited.**

**5.1 Outcome measures of benefit (including commonly used clinical outcomes – both short and long-term; and quality of life measures):**

**SNOT-22 ratings  
Endoscopic evaluation**

**5.2 Adverse outcomes (including potential early and late complications):**

**CSF leak  
Systemic steroid absorption  
Orbital damage**

## 6 Trajectory of the procedure

6.1 In your opinion, what is the likely speed of diffusion of this procedure?

Slow

6.2 This procedure, if safe and efficacious, is likely to be carried out in (choose one):

- Most or all district general hospitals.
- A minority of hospitals, but at least 10 in the UK.
- Fewer than 10 specialist centres in the UK.
- Cannot predict at present.

**Comments:**

6.3 The potential impact of this procedure on the NHS, in terms of numbers of patients eligible for treatment and use of resources, is:

- Major.
- Moderate.
- Minor.

**Comments:**

## **7 Other information**

### **7.1 Is there any other information about this procedure that might assist NICE in assessing the possible need to investigate its use?**

1. Do you have any comments on the title? I would simplify it and say “use of drug eluting stents and spacers”.
2. Is the proposed indication appropriate? Yes
3. Are there any Specialist Societies that should be added or deleted?  
British Rhinological Society could be added
4. Have we missed any important organisations to contact for consultation who have a particular focus on relevant equality issues? No
5. Are there any particular issues that we should be aware of in the evaluation of this procedure? This is not usually a procedure in isolation but performed as part of endoscopic sinus surgery. So therefore the comparator here is not appropriate. I’m also not sure about the term “refractory CRS” – refractory to what? – maximal medical management or previous surgery or both?
6. Are there any aspects of the safety and/or efficacy of this procedure that could be influenced by membership of any of the subgroups described in the prevalence section? No

## **8 Data protection and conflicts of interest**

### **8.1 Data protection statement**

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Do you or a member of your family<sup>1</sup> have a **personal pecuniary** interest?

The main examples are as follows:

**Consultancies or directorships** attracting regular or occasional payments in cash or kind  YES  
 NO

**Fee-paid work** – any work commissioned by the healthcare industry – **this includes income earned in the course of private practice**  YES  
 NO

**Shareholdings** – any shareholding, or other beneficial interest, in shares of the healthcare industry  YES  
 NO

**Expenses and hospitality** – any expenses provided by a healthcare industry company beyond those reasonably required for accommodation, meals and travel to attend meetings and conferences  YES  
 NO

**Investments** – any funds which include investments in the healthcare industry  YES  
 NO

Do you have a **personal non-pecuniary** interest – eg have you made a public statement about the topic or do you hold an office in a professional organisation or advocacy group with a direct interest in the topic?  YES  
 NO

Do you have a **non-personal** interest? The main examples are as follows:

**Fellowships** endowed by the healthcare industry  YES  
 NO

**Support by the healthcare industry or NICE** that benefits his/her position or department, eg grants, sponsorship of posts  YES  
 NO

**If you have answered YES to any of the above statements please describe the nature of the conflict(s) below.**

**Comments:**

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<sup>1</sup> ‘Family members’ refers to a spouse or partner living in the same residence as the member or employee, children for whom the member or employee is legally responsible, and adults for whom the member or employee is legally responsible (for example, an adult whose full power of attorney is held by the individual).

Thank you very much for your help.

**Professor Bruce Campbell, Chairman,  
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**February 2010**

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2.2.2 accrued pension rights from earlier employment in the healthcare industry.

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3.1.1 Any consultancy, directorship, position in or work for a healthcare industry that attracts regular or occasional payments in cash or in kind.

3.1.2 Any fee-paid work commissioned by a healthcare industry for which the member is paid in cash or in kind.

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4.2 a public statement in which an individual covered by this Code has expressed a clear opinion about the matter under consideration, which could reasonably be interpreted as prejudicial to an objective interpretation of the evidence

- 4.3 holding office in a professional organisation or advocacy group with a direct interest in the matter under consideration
- 4.4 other reputational risks in relation to an intervention under review.

## **5 Non-personal interests**

5.1 A non-personal interest involves payment that benefits a department or organisation for which a Specialist Advisor is responsible, but that is not received by the Specialist Advisor personally. This may either relate to the product or service being evaluated, in which case it is regarded as '**specific,**' or to the manufacturer or owner of the product or service, but is unrelated to the matter under consideration, in which case it is regarded as '**non-specific**'. The main examples are as follows.

5.1.1 **Fellowships** – the holding of a fellowship endowed by the healthcare industry.

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- a grant from a company for the running of a unit or department for which a Specialist Advisor is responsible
- a grant, fellowship or other payment to sponsor a post or member of staff in the unit for which a Specialist Adviser is responsible. This does not include financial assistance for students
- the commissioning of research or other work by, or advice from, staff who work in a unit for which the specialist advisor is responsible
- one or more contracts with, or grants from, NICE.

5.2 Specialist Advisers are under no obligation to seek out knowledge of work done for, or on behalf of, the healthcare industry within departments for which they are responsible if they would not normally expect to be informed.



# NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE

## Interventional Procedures Programme

Procedure Name: **Inserting a drug eluting stent after endoscopic sinus surgery to treat chronic sinusitis (963/1)**

Name of Specialist Advisor: **Professor Valerie Lund**

Specialist Society: **ENT UK**

Please complete and return to: [azeem.madari@nice.org.uk](mailto:azeem.madari@nice.org.uk) OR [sally.compton@nice.org.uk](mailto:sally.compton@nice.org.uk)

### **1 Do you have adequate knowledge of this procedure to provide advice?**

Yes.

No – please return the form/answer no more questions.

#### **1.1 Does the title used above describe the procedure adequately?**

Yes though 'chronic rhinosinusitis' is the preferred terminology

No. If no, please enter any other titles below.

**Comments:**

### **2 Your involvement in the procedure**

#### **2.1 Is this procedure relevant to your specialty?**

Yes.

Is there any kind of inter-specialty controversy over the procedure?

No. If no, then answer no more questions, but please give any information you can about who is likely to be doing the procedure.

**Comments:**

**The next two questions are about whether you carry out the procedure, or refer patients for it. If you are in a specialty that normally carries out the procedure please answer question 2.2.1. If you are in a specialty that normally selects or refers patients for the procedure please answer question 2.2.2.**

**2.2.1 If you are in a specialty which does this procedure, please indicate your experience with it:**

- I have never performed this procedure.
- I have performed this procedure at least once.
- I perform this procedure regularly.

**Comments:**

**2.2.2 If your specialty is involved in patient selection or referral to another specialty for this procedure, please indicate your experience with it.**

- I have never taken part in the selection or referral of a patient for this procedure.
- I have taken part in patient selection or referred a patient for this procedure at least once.
- I take part in patient selection or refer patients for this procedure regularly.

**Comments:**

**2.3 Please indicate your research experience relating to this procedure (please choose one or more if relevant):**

- I have undertaken bibliographic research on this procedure.
- I have undertaken research on this procedure in laboratory settings (e.g. device-related research).
- I have undertaken clinical research on this procedure involving patients or healthy volunteers.
- I have had no involvement in research on this procedure.
- Other (please comment)

**Comments:**

### 3 Status of the procedure

#### 3.1 Which of the following best describes the procedure (choose one):

- Established practice and no longer new.
- A minor variation on an existing procedure, which is unlikely to alter that procedure's safety and efficacy.
- Definitely novel and of uncertain safety and efficacy.
- The first in a new class of procedure.

**Comments:**

#### 3.2 What would be the comparator (standard practice) to this procedure?

Standard endoscopic or external frontal sinus surgery to enlarge the natural ostium

#### 3.3 Please estimate the proportion of doctors in your specialty who are performing this procedure (choose one):

- More than 50% of specialists engaged in this area of work.
- 10% to 50% of specialists engaged in this area of work.
- Fewer than 10% of specialists engaged in this area of work.
- Cannot give an estimate.

**Comments:**

If referring to this procedure ie eluting stents the answer is <10%. If by this area of work you are referring to frontal sinus work in general, 10-50% would be the answer

### 4 Safety and efficacy

#### 4.1 What are the adverse effects of the procedure?

Please list adverse events and major risks (even if uncommon) and, if possible, estimate their incidence, as follows:

1. Theoretical adverse events

xNone other than failure

2. Anecdotal adverse events (known from experience)

Stent falls out earlier than intended

3. Adverse events reported in the literature (if possible please cite literature)

X None thus far. See references on other form – no evidence of systemic absorption or ocular toxicity

**4.2 What are the key efficacy outcomes for this procedure?**

Symptomatic improvement, endoscopic improvement of oedema, polyposis, adhesions

Need for post-operative intervention

Oral corticosteroid usage

Cost-effectiveness economic evaluation

**4.3 Are there uncertainties or concerns about the *efficacy* of this procedure? If so, what are they?**

Not compared with biodegradable stent without corticosteroid or with no stent + post-operative topical corticosteroids. Consequently, in the recent American consensus document (as yet not published) the authors could not agree on the recommendation for this device due to the limited amount of evidence and experience as well as cost considerations.

**4.4 What training and facilities are required to undertake this procedure safely?**

Demonstration by commercial company. Actually very simple to insert.

**4.5 Are there any major trials or registries of this procedure currently in progress? If so, please list.**

Not in UK. On going in USA

**4.6 Are you aware of any abstracts that have been *recently* presented/ published on this procedure that may not be listed in a standard literature search, e.g. PUBMED? (This can include your own work). If yes, please list.**

No The American Consensus is the most up-to-date literature search but excludes abstracts. There may something at the next American Rhinologic or American Academy in USA in September but I do not have access to the abstracts at present.

**4.7 Is there controversy, or important uncertainty, about any aspect of the way in which this procedure is currently being done or disseminated?**

No other than cost-effectiveness in a UK medical system. Device markets at ~ \$700 in USA

## **5 Audit Criteria**

**Please suggest a minimum dataset of criteria by which this procedure could be audited.**

**5.1 Outcome measures of benefit (including commonly used clinical outcomes – both short and long-term; and quality of life measures):**

**VAS for nasal symptoms  
QoL Generic eg SF36, specific eg SNOT22  
Endoscopic scoring of surgical cavity inc adhesions as below  
Reduced use of oral corticosteroids and/or antibiotics post-operatively**

**5.2 Adverse outcomes (including potential early and late complications):**

**Endoscopic scoring using Lund Mackay scores for polyps, adhesions, crusting, mucus etc**

**6 Trajectory of the procedure**

**6.1 In your opinion, what is the likely speed of diffusion of this procedure?**

Limited by the expense of the device so most likely to be used in the private sector and adopted relatively quickly

**6.2 This procedure, if safe and efficacious, is likely to be carried out in (choose one):**

- Most or all district general hospitals.
- A minority of hospitals, but at least 10 in the UK.
- Fewer than 10 specialist centres in the UK.
- Cannot predict at present.

**Comments:**

If price reduced, would likely be used quite often by anyone doing ESS for CRS with or without nasal polyps, especially if revision surgery

**6.3 The potential impact of this procedure on the NHS, in terms of numbers of patients eligible for treatment and use of resources, is:**

Major.

Moderate.

Minor.

**Comments:**

## 7 Other information

### 7.1 Is there any other information about this procedure that might assist NICE in assessing the possible need to investigate its use?

See other form

## 8 Data protection and conflicts of interest

### 8.1 Data protection statement

*The Institute is committed to transparency. As part of this commitment your name and specialist society will be placed in the public domain, in future publications and on our website ([www.nice.org.uk](http://www.nice.org.uk)) and therefore viewable worldwide. This information may be passed to third parties connected with the work on interventional procedures.*

*A copy of the completed Specialist Adviser advice will be sent to the Specialist Society who nominated the Specialist Adviser.*

Specialist Advisers should be aware that full implementation of the Freedom of Information Act 2000 may oblige us to release Specialist Advice from 2005. The Freedom of Information Act 2000 favours the disclosure of information however requests will be considered on a case by case basis. If information is made available, personal information will be removed in accordance with the Data Protection Act 1998. In light of this please ensure that you have not named or identified individuals in your comments.

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### 8.2 Declarations of interest by Specialist Advisers advising the NICE Interventional Procedures Advisory Committee

Please state any potential conflicts of interest, or any involvements in disputes or complaints, relevant to this procedure. Please use the “Conflicts of Interest for Specialist Advisers” policy (attached) as a guide when declaring any conflicts of interest. Specialist Advisers should seek advice if required from the Associate Director – Interventional Procedures.

Do you or a member of your family<sup>1</sup> have a **personal pecuniary** interest?  
The main examples are as follows:

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<sup>1</sup> ‘Family members’ refers to a spouse or partner living in the same residence as the member or employee, children for whom the member or employee is legally responsible, and adults for whom the member or employee is legally responsible (for example, an adult whose full power of attorney is held by the individual).



**Consultancies or directorships** attracting regular or occasional payments in cash or kind  YES

NO

**Fee-paid work** – any work commissioned by the healthcare industry – **this includes income earned in the course of private practice.**  YES

NO

**Shareholdings** – any shareholding, or other beneficial interest, in shares of the healthcare industry  YES

NO

**Expenses and hospitality** – any expenses provided by a healthcare industry company beyond those reasonably required for accommodation, meals and travel to attend meetings and conferences  YES

NO

**Investments** – any funds which include investments in the healthcare industry  YES

NO

Do you have a **personal non-pecuniary** interest – eg have you made a public statement about the topic or do you hold an office in a professional organisation or advocacy group with a direct interest in the topic?  YES

NO

Do you have a **non-personal** interest? The main examples are as follows:

**Fellowships** endowed by the healthcare industry  YES

NO

**Support by the healthcare industry or NICE** that benefits his/her position or department, eg grants, sponsorship of posts  YES

NO

**If you have answered YES to any of the above statements please describe the nature of the conflict(s) below.**

**Comments:**

I lecture for MSD from time to time

I am a co-chairman of EPOS 2005-2012

Thank you very much for your help.

**Professor Bruce Campbell, Chairman,  
Interventional Procedures Advisory**

**Professor Carole Longson, Director,  
Centre for Health Technology  
Evaluation.**

**Committee**  
**February 2010**

# Conflicts of Interest for Specialist Advisers

## 1 **Declarations of interest by Specialist Advisers advising the NICE Interventional Procedures Advisory Committee**

- 1.1 Any conflicts of interest set out below should be declared on the questionnaire the Specialist Adviser completes for the procedure.
- 1.2 Specialist Advisers should seek advice if required from the Associate Director – Interventional Procedures.

## 2 **Personal pecuniary interests**

- 2.1 A personal pecuniary interest involves a current personal payment to a Specialist Adviser, which may either relate to the manufacturer or owner of a product or service being evaluated, in which case it is regarded as '**specific**' or to the industry or sector from which the product or service comes, in which case it is regarded as '**non-specific**'. The main examples are as follows.

- 2.1.1 **Consultancies** – any consultancy, directorship, position in or work for the healthcare industry that attracts regular or occasional payments in cash or kind (this includes both those which have been undertaken in the 12 months preceding the point at which the declaration is made and which are planned but have not taken place).

- 2.1.2 **Fee-paid work** – any work commissioned by the healthcare industry for which the member is paid in cash or in kind (this includes both those which have been undertaken in the 12 months preceding the point at which the declaration is made and which are planned but have not taken place).

- 2.1.3 **Shareholdings** – any shareholding, or other beneficial interest, in shares of the healthcare industry that are either held by the individual or for which the individual has legal responsibility (for example, children, or relatives whose full Power of Attorney is held by the individual). This does not include shareholdings through unit trusts, pensions funds, or other similar arrangements where the member has no influence on financial management.

- 2.1.4 **Expenses and hospitality** – any expenses provided by a healthcare industry company beyond that reasonably required for accommodation, meals and travel to attend meetings and conferences (this includes both those which have been undertaken in the 12 months preceding the point at which the declaration is made and which are planned but have not taken place).

- 2.1.5 **Investments** – any funds which include investments in the healthcare industry that are held in a portfolio over which individuals have the ability to instruct the fund manager as to the composition of the fund.

- 2.2 No personal interest exists in the case of:

- 2.2.1 assets over which individuals have no financial control (for example, wide portfolio unit trusts and occupational pension funds) and where

the fund manager has full discretion as to its composition (for example, the Universities Superannuation Scheme)

2.2.2 accrued pension rights from earlier employment in the healthcare industry.

### 3 **Personal family interest**

3.1 This relates to the personal interests of a family member and involves a **current payment** to the family member of the Specialist Adviser. The interest may relate to the manufacturer or owner of a product or service being evaluated, in which case it is regarded as '**specific**', or to the industry or sector from which the product or service comes, in which case it is regarded as '**non-specific**'. The main examples include the following.

3.1.1 Any consultancy, directorship, position in or work for a healthcare industry that attracts regular or occasional payments in cash or in kind.

3.1.2 Any fee-paid work commissioned by a healthcare industry for which the member is paid in cash or in kind.

3.1.3 Any shareholdings, or other beneficial interests, in a healthcare industry which are either held by the family member or for which an individual covered by this Code has legal responsibility (for example, children, or adults whose full Power of Attorney is held by the individual).

3.1.4 Expenses and hospitality provided by a healthcare industry company (except where they are provided to a general class of people such as attendees at an open conference)

3.1.5 Funds which include investments in the healthcare industry that are held in a portfolio over which individuals have the ability to instruct the fund manager as to the composition of the fund.

3.2 No personal family interest exists in the case of:

3.2.1 assets over which individuals have no financial control (for example, wide portfolio unit trusts and occupational pension funds) and where the fund manager has full discretion as to its composition (for example, the Universities Superannuation Scheme)

3.2.2 accrued pension rights from earlier employment in the healthcare industry.

### 4 **Personal non-pecuniary interests**

These might include, but are not limited to:

4.1 a clear opinion, reached as the conclusion of a research project, about the clinical and/or cost effectiveness of an intervention under review

4.2 a public statement in which an individual covered by this Code has expressed a clear opinion about the matter under consideration, which could reasonably be interpreted as prejudicial to an objective interpretation of the evidence

- 4.3 holding office in a professional organisation or advocacy group with a direct interest in the matter under consideration
- 4.4 other reputational risks in relation to an intervention under review.

## **5 Non-personal interests**

5.1 A non-personal interest involves payment that benefits a department or organisation for which a Specialist Advisor is responsible, but that is not received by the Specialist Advisor personally. This may either relate to the product or service being evaluated, in which case it is regarded as '**specific,**' or to the manufacturer or owner of the product or service, but is unrelated to the matter under consideration, in which case it is regarded as '**non-specific**'. The main examples are as follows.

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