## NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE

## Interventional Procedures Programme

Procedure Name:		Percutaneous coblation of the intervertebral disc for lower back pain and sciatica (235/2)		
Nan	ne of Specialist Advisor:	Dr Antony Hammond		
Spe	cialist Society:	British Pain Society		
Please complete and return to:		azeem.madari@nice.org.uk sally.compton@nice.org.uk		
1	Do you have adequate provide advice?	e knowledge of this procedure to		
	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.			
Con	nments:			
_		the 'spine wand" catheter by Arthrocare. The title re is Coblation "Nucleoplasty" and it is often		
2	Your involvement in t	he procedure		
2.1	Is this procedure relevant to	o your specialty?		
	Yes.			
	Is there any kind of inter-spe	ecialty controversy over the procedure?		
	No. If no, then answer no m	ore questions, but please give any information to be doing the procedure.		
Con	nments:			

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.
I hav	ments: e used coblation in simple form for over 10 years and in adapted form (Disc FX, below) for 2-3 years.
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.
 regu	I take part in patient selection or refer patients for this procedure larly.
Com	ments:
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: I maintain and audit of my own outcomes with these procedures			
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.		
Con	nments:		
The procedure is not novel in that it has been around for a decade but is in the sense that it is not widely used and requires to be introduced to NHS practice as a wholly new procedure. It does not quitter replace any current procedure except disc chymodiactin injection which is out of use			
3.2	What would be the comparator (standard practice) to this procedure?		
Conservative care including high dose opiate use Spinal fusion and disc replacement surgery Other discal procedures including compound disc procedures like 'DiscFX" which employ physical nucleotomy, coblation and intradiscal annulus RF denervation Mechanical disc nucleotomy "DeKompressor" (Stryker I think) Possibly laser discectomy Historically chymodiactin or chymopapain enzymatic nucleus digestion			
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.		
Con	nments:		

### 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

- Discitis (disc infection) estimate of risk 1 in 2-4000, usually managed by intravenous/intradiscal antibiotics.
- Nerve injury by needle 'en route'.
- Post procedure pain
- Misadventure, needle misplaced through disc to retroperitoneum or behind to the dura or spinal canal
- Technical failure at L5/S1 due to difficult access
- Possibly late disc protrusion (rare)
- Hospital admission for pain control or assessment of discitis

### 2. Anecdotal adverse events (known from experience)

Post procedure pain

Discitis - 1 case

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

Major adverse events are rare. The procedure correctly conducted is simple and safe. have read a report of epidural fibrosis attributed to the technique but I find it difficult to understand the link

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

Reduction of back and leg pain, disability, work and domestic productivity

In my own practice I use -

Pain area on a grid

VAS back pain Average and worst

VAS leg pain average and worst

VAS patient global improvement

Oswestry disability (RMDQ could be used)

There are numerous standardised spinal scoring and disability inventories

4.3	Are there uncertainties or concerns about the <i>efficacy</i> of this procedure? If so, what are they?
defin	e have been no absolutely definitive long term placebo/sham controlled trials to the efficacy beyond doubt but there are substantial patient numbers reported ten label and outcome series and some comparative studies.
4.4	What training and facilities are required to undertake this procedure safely?
Trair	Disc access under fluoroscopic guidance
Facil •	Theatre, fluoroscopy Day case facilities
4.5	Are there any major trials or registries of this procedure currently in progress? If so, please list.
	None
4.6	Are you aware of any abstracts that have been <i>recently</i> 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.

I am aware of a small trial conducted in UK 2 years ago but I have not seen it reported. I have presented my own data but not published it.

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

I have made the following comment previously.

Disc Diagnostics and treatments are controversial Cdonfor the following reasons:

Discogenic pain is said to account for 40% of persisting severe axial spinal pain and affects mainly young adults in the most productive years. None the less it is not diagnosed or treated by the UK pain medicine community. Those who do find it difficult to know how you can comprehensively manage spinal pain without addressing the disc and believe that the process is flawed without it. Patients are misdiagnosed, misinformed and treatment opportunities missed.

This arises in several ways. Disc management is not established and the lack of positive NICE guidance is interpreted as the presence of negative guidance which makes makes clinicians reluctant - "this is 'not approved' we shouldn't do it", "we must only practice 'evidence based' medicine".

Likewise, lack of positive guidance makes it very difficult to access new procedures from NHS purchasers so even those who would cannot. It would be easier for the surgical community to introduce such techniques as less invasive and less expensive alternatives to major surgery but this is not within their remit.

Effective disc therapy depends on correct diagnosis. It is not sufficient to test an empirically suspect disc for positive or negative pain response. In my own series, 30-40% of cases would be misdiagnosed on MR or clinical grounds and the wrong disc treated or a symptomatic disc left untreated. Disc pain is diagnosed by pain provocation discography. This is a disputed technique. The only standardised method is that recommended by the International Spinal Pain Society (ISIS) and that is not widely practiced. It requires testing a non-suspect disc to have an internal negative for absolute specificity. There are legitimate, but perhaps over worked concerns that intervening in radiographically normal discs for the purposes of discography could lead to future disc degeneration. For all of these reasons, the techniques have not been widely disseminated.

### 5 Audit Criteria

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

There are well standardised spinal outcomes and amny with expertise in outcomes assessment In my own practice I use –

Pain area on a grid VAS back pain Average and worst VAS leg pain average and worst VAS patient global improvement Oswestry disability (RMDQ could be used)

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

Disability with ADL are crucial to measure Work and home productivity Return to work EQ-5D

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

Post procedure severe pain
As per other discal procedures including late relapse of pain
duration of response to 1 year
Hospitalisations post procedure for pain control
Discitis
Any disc protrusion event on the operated level(s)
Any surgeries

### 6 Trajectory of the procedure

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

If approved it would be quite rapid but in a limited number of centres. In its own right, It is a simple technique for those with the appropriate training and there is substantial unmet need. However, the requirement for prior pain provocation discography is perhaps more of a technical and clinical challenge. The need to establish a system of assessment and a two stage procedural path would be a block in many units.

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.			
Comm	ents:			
6.3 of pati	The potential impact of this procedure on the NHS, in terms of numbers ents eligible for treatment and use of resources, is:			
	Major.			
	Moderate.			
	Minor.			
Comments:				

Potentially there are a lot of patients but there are no robust estimates of prevalence. The available prevalence of 40% of chronic axial spinal pain comes from limited numbers in an American chronic pain clinic. However using that. Chronic back pain is 1% and disc .4 of this hence .4% of adults.

### 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?

The pathology underpinning discogenic pain is complex and involves a set of inflammatory changes involving both or either nucleus or annulus. It is not possible in a given case to determine which is present, or both. Current diagnostics with pain provocation discography don't really differentiate these factors. Coblation addresses reduction of nuclear volume (and thus direct removal of potentially inflamed tissue), produces positive alteration in cytokine profile (in porcine disc in vivo) and reduces intradiscal pressure but does not treat the annulus directly. I therefore now use the Disc FX system which deploys 3 modalities, mechanical (ronguers) nucleotomy coblation and internal annulus heat denervation) by the same aproach and appears in my experience to be superior to simple coblation. This technique should, if possible be included as a sub analysis of this procedure.

### 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 (<a href="www.nice.org.uk">www.nice.org.uk</a>) 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.

# 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 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		
payments in odding with				
Fee-paid work – any work commissioned by the healthcare		YES		
industry – this includes income earned in the course of private practice				
<b>Shareholdings</b> – any shareholding, or other beneficial interest, in		YES		
shares of the healthcare industry		NO		
<b>Expenses and hospitality</b> – any expenses provided by a healthcare industry company beyond those reasonably required for accommodation, meals and travel to attend meetings and		YES		
conferences		NO		
Investments – any funds which include investments in the		YES		
healthcare industry		NO		
Do you have a <b>personal non-pecuniary</b> interest – eg have you made a public statement about the topic or do you hold an office in		YES		
a professional organisation or advocacy group with a direct interest in the topic?				
Do you have a non-personal interest? The main examples are as for	ollow	s:		
Fellowships endowed by the healthcare industry				
		NO		
Support by the healthcare industry or NICE that benefits his/her		YES		
position or department, eg grants, sponsorship of posts				
If you have answered YES to any of the above statements please describe the nature of the conflict(s) below.				
Comments:				

I have a £5000 investmetnt in Alloksys ILife Sciences (a biological pharma company) I own an RF lesion generator currently rented to KIMS hospital

<sup>&</sup>lt;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, Interventional Procedures Advisory Committee

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

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.
- 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.

This applies Egually to 1-235/2 - 181/2

## NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE

## Interventional Procedures Programme

	Prod	cedure Name:	Percutaneous coblation of the intervertebral disc for lower back pain and sciatica (235/2)
	Nam	ne of Specialist Advisor:	George Verghese
	Spe	cialist Society:	British Association of Spinal Surgeons
	Plea	se complete and return to:	azeem.madari@nice.org.uk OR sally.compton@nice.org.uk
Cobla		Yes.  No – please return the form/ Does the title used above de  Yes.  No. If no, please enter any other ments:  Your involvement in the form/ Is this procedure relevant to  Yes.  Is there any kind of inter-special contents and the form/  Is the procedure relevant to the form/  Yes.	her titles below.  May thought of the procedure  To technique us to he procedure  Consider the procedure  Consider the procedure
Peyfon	Com	you can about who is likely to siments:  Nain y by	o be doing the procedure.

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.			
1. Ch	Comm	nents:  Let Sen School and John of the a  Cal role  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.			
	9	I have had no involvement in research on this procedure.			
		Other (please comment)			
	Comn	nents:			

# 3 Status of the procedure 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: What would be the comparator (standard practice) to this procedure? 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: Safety and efficacy 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

2. Anecdotal adverse events (known from experience)

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

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 looky tems to se clear as to
Exactly Low this works or if this is beef than exists of
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):
- VAG /ODI/ERSB
- VAJ JODI JERSB - Pat this has to compare 2 comparable & Rindry Broups of Ph
conjuine of killings.
5.2 Adverse outcomes (including potential early and late complications):
- Any possible complicate that a
- Any possible Complicate that a spinal Lucius can be Swed for must be and that.
- Spenfically - post & wowopa The Pan
5

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.

NA

6.1	In your opinion, what is the likely speed of diffusion of this procedure?
	Slow
6.2 (choos	This procedure, if safe and efficacious, is likely to be carried out in se one):
	Most or all district general hospitals.
	A minority of hospitals, but at least 10 in the UK.
Ū/	Fewer than 10 specialist centres in the UK.
	Cannot predict at present.
Comm	nents:
0 / 1 / Oct /	Ind the be allowed.  Inp: In this Cost Effect ?!
6.3 of pati	The potential impact of this procedure on the NHS, in terms of numbers ients eligible for treatment and use of resources, is:
	Major
	Moderate.
	Minor.
Comp	nents: Cost V. Effic trums.
Low	men be Scoth lara Ada
	- Metal-on-Netal this replant.
	Volar places of Dist Rechial #'s (DRAFT Study)
	ete, etc (DRAFT stray)

Trajectory of the procedure

6

### 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?

1.1 + 6.3.

### 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 (<a href="www.nice.org.uk">www.nice.org.uk</a>) 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.

# 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 have a **personal pecuniary** interest? The main examples are as follows:

<sup>&</sup>lt;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).

payments in cash or kind			
Fee-paid work – any work commission industry – this includes income earne practice	•		YES NO
<b>Shareholdings</b> – any shareholding, or shares of the healthcare industry	other beneficial interest, in		YES NO
<b>Expenses and hospitality</b> – any experhealthcare industry company beyond th accommodation, meals and travel to att conferences	ose reasonably required for		YES NO
Investments – any funds which include healthcare industry	e investments in the		MES NO
Do you have a <b>personal non-pecuniar</b> made a public statement about the topic a professional organisation or advocacy in the topic?	c or do you hold an office in		YES NO
Do you have a <b>non-personal</b> interest?	The main examples are as fo	ollows	3:
Fellowships endowed by the healthcar	re industry		YES NO
Support by the healthcare industry of position or department, eg grants, spon			YES NO
If you have answered YES to any of t describe the nature of the conflict(s)		e	
Comments:  Thank you very much for your help.  Professor Bruce Campbell, Chairman, Interventional Procedures Advisory Committee  February 2010	Professor Carole Longson, I Centre for Health Technolog Evaluation.		tor,

## **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.
- 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:		Percutaneous coblation of the intervertebral disc for lower back pain and sciatica (235/2)			
Nam	e of Specialist Advisor:	Dr Sam Stuart			
Specialist Society:		British Society of Interventional Radiologists			
Please complete and return to:		azeem.madari@nice.org.uk OR sally.compton@nice.org.uk			
1	Do you have adequate knowledge of this procedure to provide advice?				
X	Yes.				
	No – please return the form/a	answer no more questions.			
1.1	Does the title used above describe the procedure adequately?				
X	Yes.				
	No. If no, please enter any other titles below.				
Comments:					
2	Your involvement in th	ne procedure			
2.1	Is this procedure relevant to	your specialty?			
X	Yes.				
	Is there any kind of inter-spec	cialty controversy over the procedure?			
	No. If no, then answer no mo	ore questions, but please give any information 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:			
X	I have never performed this procedure.			
	I have performed this procedure at least once.			
	I perform this procedure regularly.			
Comn	nents:			
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.			
X	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.			
Comn	nents:			
	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.			
<b>X</b> I hav	ve 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):
X	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.
Со	mments:
3.2	What would be the comparator (standard practice) to this procedure?
	edication (analgesia) ssibly 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.
Со	mments:
4	Safety and efficacy
4.1	What are the adverse effects of the procedure?
	ease list adverse events and major risks (even if uncommon) and, if possible, imate their incidence, as follows:
1.	Theoretical adverse events
2.	discitis, Infection
3.	instability,
4.	increased back pain,

- 5. reherniation.
- 6. Epidural fibrosis
- 7. Nerve damage
- 8. Bleeding

<1% complication rate from literature

- 9. Anecdotal adverse events (known from experience)
- 10. Adverse events reported in the literature (if possible please cite literature)

discitis, Infection

instability,

increased back pain,

reherniation.

Epidural fibrosis

Nerve damage

Bleeding

• Side effects and complications after percutaneous disc decompression using coblation technology

by Bhagia, Sarjoo M; Slipman, Curtis W; Nirschl, Monica; more...

American journal of physical medicine & rehabilitation / Association of Academic Physiatrists, 01/2006, Volume 85, Issue 1

• Epidural fibrosis following percutaneous disc decompression with coblation technology

by Smuck, Matthew; Benny, Benoy; Han, Alice; more...

Pain physician, 09/2007, Volume 10, Issue 5

<u>Lumbar disc nucleoplasty using coblation technology: clinical outcome</u>

by Azzazi, Alaa; AlMekawi, Sherif; Zein, Mostafa

Journal of neurointerventional surgery, 09/2011, Volume 3, Issue 3

4.2	What are the key efficacy outcomes for this procedure?					
Impr	Improvement in pain					
4.3	Are there uncertainties or concerns about the <i>efficacy</i> of this procedure? If so, what are they?					
more	. There are no large high quality studies demonstrating this invasive technique is e effective than medical treatment of back pain or other percutaneous methods of decompression.					
4.4	What training and facilities are required to undertake this procedure safely?					
Safe	Understanding of imaging Safe use of x ray equipment and understanding of risks of Ionising radiation Available fluoroscopy or CT scanner					
4.5	Are there any major trials or registries of this procedure currently in progress? If so, please list.					
Not	that I am aware of					
4.6	Are you aware of any abstracts that have been <i>recently</i> 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 controvers	sy, or important unce	rtainty,	about ar	y aspect of the
	way in which this	procedure is currently	y being	done or	disseminated?

Uncertainty over who would benefit best from this treatrment – i.e. patient selection.

### 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):

**Quality of life measures (including pain measures)** 

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

Infection

Nerve damage

Bleeding

## 6 Trajectory of the procedure

Comments:

Back pain and disc herniation are very common.

6.1	In your opinion, what is the likely speed of diffusion of this procedure?
	The procedure has been described for many years (at least 2006) and to my edge has not been widely taken up by the medical community.
6.2 (choo	This procedure, if safe and efficacious, is likely to be carried out in see one):
X	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.
Comr	nents:
	e, effective and cost efficiency is proven then most hospitals could provide this e with appropriately trained individuals. There are many unanswered questions ver.
6.3 of pat	The potential impact of this procedure on the NHS, in terms of numbers tients eligible for treatment and use of resources, is:
X	Major.
	Moderate.
	Minor.

### 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?

More information about the efficacy of the procedure and cost effectiveness is needed before it can be seen if it's use should be widespread.

### 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 (<a href="www.nice.org.uk">www.nice.org.uk</a>) 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.

# 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 have a **personal pecuniary** interest? The main examples are as follows:

<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

Consultancies or directorships attracting regular or occasional payments in cash or kind				
Fee-paid work – any work commissioned by the healthcare industry – this includes income earned in the course of private			YES NO	
practice Characteristics and additional additional and additional add				
<b>Shareholdings</b> – any shareholding, or other beneficial interest, in shares of the healthcare industry			YES NO	
<b>Expenses and hospitality</b> – any expenses provided by a healthcare industry company beyond those reasonably required for accommodation, meals and travel to attend meetings and conferences				
<b>Investments</b> – any funds which include investments in the			YES	
healthcare industry		X	NO	
Do you have a <b>personal non-pecuniary</b> 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?	icicsi	X	NO	
Do you have a <b>non-personal</b> interest? The main examples a	re as fo	llows	S:	
Fellowships endowed by the healthcare industry			YES	
		X	NO	
Support by the healthcare industry or NICE that benefits h	is/her		YES	
position or department, eg grants, sponsorship of posts				
If you have answered YES to any of the above statements describe the nature of the conflict(s) below.	s please	е		
Comments:				
Thank you very much for your help.				
Professor Bruce Campbell, Chairman, Interventional Procedures Advisory Committee  Professor Carole Longson, Direct Centre for Health Technology Evaluation.				
February 2010				

whom the member or employee is legally responsible (for example, an adult whose full power of attorney is held by the individual).

## **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.
- 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.