Allantoic cysts and posterior urethral valves: a case report

MICHEL BUREAU and STÉPHANE BOLDUC
Division of Urology, Centre Hospitalier Universitaire de Québec (CHUQ), Université Laval, Quebec city, Canada

KEYWORDS: allantoic cysts; patent urachus; posterior urethral valves; prenatal diagnosis; umbilical cord cysts

ABSTRACT

Allantoic cysts are a somewhat rare entity. They are identifiable on antenatal ultrasound examination but are not easily distinguishable from pseudocysts, which are often associated with a poor prognosis. Their etiology remains obscure and obstructive uropathies have been proposed to be one of the underlying mechanisms. This report concerns a case in which both allantoic cysts and a patent urachus were detected antenatally and turned out to be associated with posterior urethral valves (PUV).

CASE REPORT

A 29-year-old (gravida 4 para 1 abortus 1) presented for ultrasonographic examination at 13 3/7 weeks' gestation and was found to be carrying monochorionic diamniotic twins. The first fetus was normal and remained normal throughout the pregnancy. The second one had a cystic mass measuring 3 cm close to the abdominal wall that was communicating with a full fetal bladder through what appeared to be a patent urachus. This mass increased in size to reach 4.8 cm at 18 weeks' gestation and was no longer seen on the weekly ultrasonographic examinations from the 22nd week. In the meantime, a second cyst that was communicating with the first one, developed a few centimeters distally from it at 18 weeks' gestation (Figure 1). It also increased in size to reach a maximum of 7 cm during the 23rd week and disappeared by the 29th week. During the subsequent sonographic examinations, the bladder was emptying regularly and the urachus remained patent. Except for these findings, the fetus was completely normal. Amniotic fluid and kidneys remained normal during the pregnancy. Amniocentesis was offered and was 46 XY for both fetuses. Facing this clinical presentation, we hypothesized that an obstructive uropathy could have explained the large bladder, the patent urachus and the cysts formation which later perforated, preserving normal bladder and kidneys. The patient was delivered vaginally at term. Apgar score was 8 and 9 at 1 and 5 minutes, respectively, and the baby weighed 2808 g. The pathologic analysis of the umbilical cord demonstrated a cystic cavity that was compatible with a widely patent urachus. Upon examination of the newborn, a large opening was seen in the umbilicus and a catheter was placed in it (Figure 2). A voiding cystogram was performed and revealed a smooth bladder, no vesicoenteral reflux and contrast product could not be seen beyond the dilated prostatic urethra, compatible with posterior urethral valves (PUV). Ultrasound examination confirmed normal kidneys. Surgery was scheduled for the next day. First, a cystoscopy was performed and PUV were found and incised. Subsequently, a large patent urachus was successfully excised. The procedure was well tolerated. The infant was discharged 6 days later with normal spontaneous bladder voiding. The patient had an ultrasonographic follow-up at 2 months, 1 year and 2 years of age and the bladder and kidneys were normal.

Correspondence to: Dr Stéphane Bolduc, Division of Urology, Centre Hospitalier Universitaire de Québec (CHUQ, CHUL), 2705, Boul. Laurier, R-1742, Quebec city, Quebec, Canada, G1V 4G2 (e-mail: sbolduc.2002@yahoo.ca)

No conflict of interest exists for any of the authors.

This research has been approved by the research ethical committee of the institution.

Accepted: 1 December 2010
Umbilical cord cysts are a somewhat rare entity. Their prevalence ranges between 0.4% and 3.4%\textsuperscript{1-3}. There are two types of cord cysts: true cysts and pseudocysts. True cysts are characterized by an epithelial lining and are derived from remnants of either allantois or omphalomesenteric duct\textsuperscript{1,3,4-7}. Pseudocysts are caused by local oedema or degeneration\textsuperscript{8} of the Wharton’s jelly\textsuperscript{1,3,5,8}. They are associated with a higher rate of chromosomal defects, mainly trisomy 13 and 18, whereas true cysts do not seem to be associated with such a risk\textsuperscript{1,5,7-9}. The two types of cysts are not easy to distinguish from one another with conventional ultrasound\textsuperscript{1,3,5,7,9}. The etiology of allantoic cysts remains obscure and obstructive uropathies have been proposed to be one of the underlying mechanisms by some authors\textsuperscript{1,4}. An association between umbilical cord cyst and obstructive uropathy has only been observed in a very limited number of cases\textsuperscript{1,2,4,11,12}. In 1997, Ross et al.\textsuperscript{1} conducted a prospective study to assess the prevalence of first trimester cysts\textsuperscript{1}. Among the 29 cysts found in the 859 women screened, only one was associated with obstructive uropathy. They hypothesized that the cyst could have represented a dilatation of an allantoic remnant secondary to the increased pressure within the urinary system caused by the obstruction. They did not report the outcome for the fetus.

More recently, Pal et al.\textsuperscript{4} described the case of a male infant born with an allantoic cyst along with ventral penile chordee, proximal hypospadias and severely stenotic meatus\textsuperscript{4}. Interestingly, the cyst was not observed antenatally. The physical exam revealed no urine flow per urethra upon suprapubic pressure but a swelling of the cystic mass and a fluid leakage through a small defect in the cyst. Like
Ross et al. previously did, they postulated that the patent urachus and the cyst formation were secondary to the increased pressure in the urinary tract. They imputed the favourable outcome to the perforation of the cyst, which allowed the fetus to empty his bladder thus preventing renal damage and oligohydramnios. Maybe the urachus was initially patent but the presence of the stenotic meatus kept it open and probably caused formation of the cyst.

In our case, we believe the same mechanisms explained the presence of the allantoic cyst and the patent urachus. Because of the increased pressure in the urinary tract, there was the formation of a first cyst and then a second one which eventually led to perforation of the cysts, which allowed the urine to drain through that breach. This would explain why the cysts disappeared during the course of the pregnancy, why the fetus appeared to empty his bladder normally afterwards, and also why the fetus did not have the usual complications expected from obstructive uropathies.

To our knowledge, this case is the first report of a patent urachus associated with allantoic cysts and posterior urethral valves where the diagnosis was strongly suspected antenatally and confirmed after birth. It emphasizes the importance of antenatal diagnosis of umbilical cysts.

Facing an umbilical cord cyst communicating with the bladder, the clinician should include obstructive uropathies in his differential diagnosis. Therefore the upper urinary tract and amniotic fluid production should be closely followed by serial ultrasounds in the second and third trimesters. Fetal MRI may also be an additional tool to help characterize the cyst. Finally, the clinician should consider a consultation with a perinatologist and a pediatric urologist to ensure an appropriate follow-up and a rapid intervention after birth if needed.

REFERENCES

QUERIES TO BE ANSWERED BY AUTHOR & EDITOR

IMPORTANT NOTE: Please list all query corrections in an e-mail and send to the production contact as detailed in the covering e-mail, or mark all corrections directly on the proofs and send the scanned copy via e-mail. Please do not send corrections by annotated PDF file and do NOT mark your corrections on this query sheet.

Queries to Author:

AQ1 “During the subsequent ultrasonographic controls”, changed to ‘During the subsequent sonographic examinations’, ok? (OS)

AQ2 “…to their perforation; this allowed the fetus to empty…”, a full stop has been changed to a semi-colon here to tie the second statement in as part of your hypothesis, is that correct? (OS)

AQ3 “gravida 4 para 1 abortus 1”, could you check these numbers? Should the “para”, “abortus” and the index pregnancy sum to the “gravida” (with twins counted as one pregnancy)? (OS)

AQ4 Should ‘13 3/7 weeks’ read ‘13 + 3/7 weeks’? (MS)

AQ5 ‘The first baby was …’ changed to ‘The first fetus was …’ OK? (MS)

AQ6 “baby” and “babies” changed to ‘fetus’ and ‘fetuses’ here, ok? (OS)

AQ7 There seems to be a double negative here ‘… no vesicoureteral reflux and contrast product could not be seen beyond …’ Can we simply remove ‘no’? (MS)

AQ8 PUV explained as ‘posterior urethral valves’ here at first use in main text. OK? (MS)

AQ9 It seems that Figure 1 should comprise 3 parts, A, B, and C. The A/W supplied shows only one image. Please supply correct A/W and/or ensure figure caption is modified to match supplied A/W.

AQ10 “Warthon’s” changed to ‘Wharton’s’, ok? (OS)

AQ11 I cannot see Reference 10 cited in the text, should this be added or could the Reference be removed? (OS)

AQ12 “They did not mention the outcome for the baby.” Changed to ‘They did not report the outcome for the fetus.’, ok? (OS)

AQ13 ‘and also why he did not have the usual complications’ changed to ‘and also why the fetus did not have the usual complications’ OK? (MS)

Queries to Editor:

EQ1 We have inserted the sentence ‘No conflict of interest exists for …’, as an article footnote. Please confirm if this is correct.
***PROOF OF YOUR ARTICLE ATTACHED, PLEASE READ CAREFULLY***

After receipt of your corrections your article will be published initially within the online version of the journal.

PLEASE AIM TO RETURN YOUR CORRECTIONS WITHIN 48 HOURS OF RECEIPT OF YOUR PROOF, THIS WILL ENSURE THAT THERE ARE NO UNNECESSARY DELAYS IN THE PUBLICATION OF YOUR ARTICLE

- **READ PROOFS CAREFULLY**
  - This will be your only chance to correct your proof
  - Please note that the volume and page numbers shown on the proofs are for position only

- **ANSWER ALL QUERIES ON PROOFS** (Queries are attached as the last page of your proof.)
  - List all corrections and send back via e-mail to the production contact as detailed in the covering e-mail, or mark all corrections directly on the proofs and send the scanned copy via e-mail. Please do not send corrections by fax or post

- **CHECK FIGURES AND TABLES CAREFULLY**
  - Check size, numbering, and orientation of figures
  - All images in the PDF are downsampled (reduced to lower resolution and file size) to facilitate Internet delivery. These images will appear at higher resolution and sharpness in the printed article
  - Review figure legends to ensure that they are complete
  - Check all tables. Review layout, title, and footnotes

- **COMPLETE COPYRIGHT TRANSFER AGREEMENT (CTA) if you have not already signed one**
  - Please send a scanned signed copy with your proofs by e-mail. Your article cannot be published unless we have received the signed CTA

- **OFFPRINTS**
  - Free access to the final PDF offprint or your article will be available via Author Services only. Please therefore sign up for Author Services if you would like to access your article PDF offprint and enjoy the many other benefits the service offers.

Additional reprint and journal issue purchases

- Should you wish to purchase additional copies of your article, please click on the link and follow the instructions provided: [http://offprint.cosprinters.com/cos/bw/](http://offprint.cosprinters.com/cos/bw/)
- Corresponding authors are invited to inform their co-authors of the reprint options available.
- Please note that regardless of the form in which they are acquired, reprints should not be resold, nor further disseminated in electronic form, nor deployed in part or in whole in any marketing, promotional or educational contexts without authorization from Wiley. Permissions requests should be directed to mailto: permissionsuk@wiley.com
- For information about ‘Pay-Per-View and Article Select’ click on the following link: [http://www3.interscience.wiley.com/aboutus/ppv-articleselect.html](http://www3.interscience.wiley.com/aboutus/ppv-articleselect.html)
COPYRIGHT TRANSFER AGREEMENT

Date: ____________________________

To: ________________________________

Re: Manuscript entitled ____________________________

(the "Contribution") for publication in Ultrasound in Obstetrics & Gynecology (the "Journal") published by John Wiley & Sons Ltd ("Wiley").

Thank you for submitting your contribution for publication. In order to expedite the publishing process and enable Wiley to disseminate your work to the fullest extent, we need to have this Copyright Transfer Agreement signed and returned to us as soon as possible. If the Contribution is not accepted for publication this Agreement shall be null and void.

A. COPYRIGHT

1. The Contributor assigns to the International Society of Ultrasound in Obstetrics and Gynecology ("ISUOG"), during the full term of copyright and any extensions or renewals of that term, all copyright in and to the Contribution, including but not limited to the right to publish, republish, transmit, sell, distribute and otherwise use the Contribution and the material contained therein in electronic and print editions of the Journal and in derivative works throughout the world, in all languages and in all media of expression now known or later developed, and to license or permit others to do so.

2. Reproduction, posting, transmission or other distribution or use of the Contribution or any material contained therein, in any medium as permitted hereunder, requires a citation to the Journal and an appropriate credit to the ISUOG as copyright owner and to Wiley as Publisher, suitable in form and content as follows: (Title of Article, Author, Ultrasound in Obstetrics & Gynecology, Volume/Issue Copyright © [year] International Society of Ultrasound in Obstetrics and Gynecology, first published by John Wiley & Sons Ltd.)

B. RETAINED RIGHTS

Notwithstanding the above, the Contributor or, if applicable, the Contributor's Employer, retains all proprietary rights other than copyright, such as patent rights, in any process, procedure or article of manufacture described in the Contribution, and the right to make oral presentations of material from the Contribution.

C. OTHER RIGHTS OF CONTRIBUTOR

The International Society of Ultrasound in Obstetrics and Gynecology grants back to the Contributor the following:

1. The right to share with colleagues print or electronic "preprints" of the unpublished Contribution, in form and content as accepted by Wiley for publication in the Journal. Such preprints may be posted as electronic files on the Contributor’s own website for personal or professional use, or on the Contributor’s internal university or corporate networks/intranet, or secure external websites at the Contributor’s institution, but not for commercial sale or for any systematic external distribution by a third party (eg: a listserver or database connected to a public access server). Prior to publication, the Contributor must include the following notice on the preprint: "This is a preprint of an article accepted for publication in Ultrasound in Obstetrics & Gynecology Copyright © (year) (International Society of Ultrasound in Obstetrics and Gynecology)." After publication of the Contribution by Wiley, the preprint notice should be amended to read as follows: "This is a preprint of an article published in [include the complete citation information for the final version of the Contribution as published in the print edition of the Journal] and should provide an electronic link to the Journal’s WWW site, located at the following Wiley URL: http://www.interscience.wiley.com. The Contributor agrees not to update the preprint or replace it with the published version of the Contribution.

2. The right, without charge, to photocopy or to transmit on-line or to download, print out and distribute to a colleague a copy of the published Contribution in whole or in part, for the Contributor’s personal or professional use, for the advancement of scholarly or scientific research or study, or for corporate informational purposes in accordance with paragraph D2 below.

3. The right to republish, without charge, in print format, all or part of the material from the published Contribution in a book written or edited by the Contributor.

4. The right to use selected figures and tables, and selected text (up to 250 words) from the Contribution, for the Contributor's own teaching purposes, or for incorporation within another work by the Contributor that is made part of an edited work published (in print or electronic format) by a third party, or for presentation in electronic format on an internal computer network or external website of the Contributor or the Contributor's employer. The abstract shall not be included as part of such selected text.

5. The right to include the Contribution in a compilation for classroom use (course packs) to be distributed to students at the Contributor's instruction free of charge or to be stored in electronic format in data rooms for access by students at the Contributor's institution as part of their course work (sometimes called "electronic reserve rooms") and for in-house training programmes at the Contributor's employer.

D. CONTRIBUTIONS OWNED BY EMPLOYER

1. If the Contribution was written by the Contributor in the course of the Contributor’s employment (as a “work-made-for-hire” in the course of employment), the Contribution is owned by the company/employer which must sign this Agreement (in addition to the Contributor’s signature), in the space provided below. In such case, the company/employer hereby assigns to the ISUOG, during the full term of copyright, all copyright in and to the Contribution for the full term of copyright throughout the world as specified in paragraph A above.
2. In addition to the rights specified as retained in paragraph B above and the rights granted back to the Contributor pursuant to paragraph C above, the ISUOG hereby grants back, without charge, to such company/employer, its subsidiaries and divisions, the right to make copies of and distribute the published Contribution internally in print format or electronically on the Company's internal network. Upon payment of the Publisher's reprint fee, the institution may distribute (but not re-sell) print copies of the published Contribution externally. Although copies so made shall not be available for individual re-sale, they may be included by the company/employer as part of an information package included with software or other products offered for sale or license. Posting of the published Contribution by the institution on a public access website may only be done with Wiley's written permission, and payment of any applicable fee(s).

E. GOVERNMENT CONTRACTS
In the case of a Contribution prepared under US Government contract or grant, the US Government may reproduce, without charge, all or portions of the Contribution and may authorise others to do so, for official US Government purposes only, if the US Government contract or grant so requires. (Government Employees: see note at end.)

F. COPYRIGHT NOTICE
The Contributor and the company/employer agree that any and all copies of the Contribution or any part thereof distributed or posted by them in print or electronic format as permitted herein will include the notice of copyright as stipulated in the Journal and a full citation to the Journal as published by Wiley.

G. CONTRIBUTORS REPRESENTATIONS
The Contributor represents that the Contribution is the Contributor's original work. If the Contribution was prepared jointly, the Contributor agrees to inform the co-Contributors of the terms of this Agreement and to obtain their signature(s) to this Agreement or their written permission to sign on their behalf. The Contribution is submitted only to this Journal and has not been published before, except for "preprint" as permitted above. (If excerpts from copyrighted works owned by third parties are included, the Contributor will obtain written permission from the copyright owners for all uses as set forth in Wiley's permissions form or in the Journal's Instructions for Contributors, and show credit to the sources in the Contribution.) The Contributor also warrants that the Contribution contains no libelous or unlawful statements, does not infringe on the right or privacy of others, or contain material or instructions that might cause harm or injury.

Tick one box and fill in the appropriate section before returning the original signed copy to the Publisher

☐ Contributor-owned work

Contributor's signature __________________________________________ Date __________________________

Type or print name and title __________________________________________

Co-contributor's signature __________________________________________ Date __________________________

Type or print name and title __________________________________________

Attach additional signature page as necessary

☐ Company/Institution-owned work (made-for-hire in the course of employment)

Contributor's signature __________________________________________ Date __________________________

Type or print name and title __________________________________________

Company or Institution
(Other-for Hire) __________________________________________

Authorised signature of Employer __________________________________________ Date __________________________

Type or print name and title __________________________________________

☐ US Government work
Note to US Government Employees
A Contribution prepared by a US federal government employee as part of the employee's official duties, or which is an official US Government publication is called a "US Government work", and is in the public domain in the United States. In such case, the employee may cross out paragraph A1 but must sign and return this Agreement. If the Contribution was not prepared as part of the employee's duties or is not an official US Government publication, it is not a US Government work.

☐ UK Government work (Crown Copyright)
Note to UK Government Employees
The rights in a Contribution by an employee of a UK Government department, agency or other Crown body as part of his/her official duties, or which is an official government publication, belong to the Crown. In such case, the Publisher will forward the relevant form to the Employee for signature.
WILEY AUTHOR DISCOUNT CLUB

We would like to show our appreciation to you, a highly valued contributor to Wiley’s publications, by offering a **unique 25% discount** off the published price of any of our books*.

All you need to do is apply for the **Wiley Author Discount Card** by completing the attached form and returning it to us at the following address:

![The Database Group (Author Club)](John Wiley & Sons Ltd)
![The Atrium](Southern Gate)
![Chichester](PO19 8SQ)
![UK](

Alternatively, you can **register online** at www.wileyeurope.com/go/authordiscount

Please pass on details of this offer to any co-authors or fellow contributors.

After registering you will receive your Wiley Author Discount Card with a special promotion code, which you will need to quote whenever you order books direct from us.

The quickest way to order your books from us is via our European website at:

**http://www.wileyeuurope.com**

Key benefits to using the site and ordering online include:

- Real-time SECURE on-line ordering
- Easy catalogue browsing
- Dedicated Author resource centre
- Opportunity to sign up for subject-orientated e-mail alerts

Alternatively, you can order direct through Customer Services at:

**cs-books@wiley.co.uk**, or call +44 (0)1243 843294, fax +44 (0)1243 843303

So take advantage of this great offer and return your completed form today.

Yours sincerely,

![Verity Leaver](Group Marketing Manager)

author@wiley.co.uk

*TERMS AND CONDITIONS

This offer is exclusive to Wiley Authors, Editors, Contributors and Editorial Board Members in acquiring books for their personal use. There must be no resale through any channel. The offer is subject to stock availability and cannot be applied retrospectively. This entitlement cannot be used in conjunction with any other special offer. Wiley reserves the right to amend the terms of the offer at any time.
To enjoy your 25% discount, tell us your areas of interest and you will receive relevant catalogues or leaflets from which to select your books. Please indicate your specific subject areas below.

<table>
<thead>
<tr>
<th>Accounting</th>
<th>Architecture</th>
<th>Business/Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corporate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corporate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Science</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database/Data Warehouse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internet Business</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Networking</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Programming/Software</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Development</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Object Technology</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Earth &amp; Environmental Science</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Encyclopedia/Reference</td>
<td></td>
</tr>
<tr>
<td>Business/Finance</td>
<td></td>
</tr>
<tr>
<td>Life Sciences</td>
<td></td>
</tr>
<tr>
<td>Medical Sciences</td>
<td></td>
</tr>
<tr>
<td>Physical Sciences</td>
<td></td>
</tr>
<tr>
<td>Technology</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hospitality</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Genetics</td>
<td></td>
</tr>
<tr>
<td>Bioinformatics/Computational Biology</td>
<td></td>
</tr>
<tr>
<td>Proteomics</td>
<td></td>
</tr>
<tr>
<td>Genomics</td>
<td></td>
</tr>
<tr>
<td>Gene Mapping</td>
<td></td>
</tr>
<tr>
<td>Clinical Genetics</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Medical Science</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardiovascular</td>
<td></td>
</tr>
<tr>
<td>Diabetes</td>
<td></td>
</tr>
<tr>
<td>Endocrinology</td>
<td></td>
</tr>
<tr>
<td>Imaging</td>
<td></td>
</tr>
<tr>
<td>Obstetrics/Gynaecology</td>
<td></td>
</tr>
<tr>
<td>Oncology</td>
<td></td>
</tr>
<tr>
<td>Pharmacology</td>
<td></td>
</tr>
<tr>
<td>Psychiatry</td>
<td></td>
</tr>
</tbody>
</table>

| Non-Profit                   |   |

| Physics/Physical Science     |   |

Please complete the next page /
I confirm that I am (*delete where not applicable):

a **Wiley** Book Author/Editor/Contributor* of the following book(s):

ISBN: 
ISBN: 

a **Wiley** Journal Editor/Contributor/Editorial Board Member* of the following journal(s):

SIGNATURE: …………………………………………………………………………………… Date: ………………………………………

PLEASE COMPLETE THE FOLLOWING DETAILS IN BLOCK CAPITALS:

TITLE: (e.g. Mr, Mrs, Dr) ……………………  FULL NAME: …………………………………………………………………………….…

JOB TITLE (or Occupation): ……………………………………………………………………………………………………………………

DEPARTMENT: ……………………………………………………………………………………………………………………………………………..

COMPANY/INSTITUTION: ……………………………………………………………………………………………………………………………

ADDRESS: …………………………………………………………………………………………………………………………………………………

……………………………………………………………………………………………………………………………………………………………………

TOWN/CITY: …………………………………………………………………………………………………………………………………………………

COUNTY/STATE: ………………………………………………………………………………………………………………………………………….

COUNTRY: ……………………………………………………………………………………………………………………………………………………

POSTCODE/ZIP CODE: …………………………………………………………………………………………………………………………………

DAYTIME TEL: ………………………………………………………………………………………………………………………………………………

FAX: ……………………………………………………………………………………………………………………………………………………………

E-MAIL: ………………………………………………………………………………………………………………………………………………………

**YOUR PERSONAL DATA**

We, John Wiley & Sons Ltd, will use the information you have provided to fulfil your request. In addition, we would like to:

1. Use your information to keep you informed by post of titles and offers of interest to you and available from us or other Wiley Group companies worldwide, and may supply your details to members of the Wiley Group for this purpose.

   [ ] Please tick the box if you do **NOT** wish to receive this information

2. Share your information with other carefully selected companies so that they may contact you by post with details of titles and offers that may be of interest to you.

   [ ] Please tick the box if you do **NOT** wish to receive this information.

**E-MAIL ALERTING SERVICE**

We also offer an alerting service to our author base via e-mail, with regular special offers and competitions. If you **DO** wish to receive these, please opt in by ticking the box [ ].

If, at any time, you wish to stop receiving information, please contact the Database Group (databasegroup@wiley.co.uk) at John Wiley & Sons Ltd, The Atrium, Southern Gate, Chichester, PO19 8SQ, UK.

**TERMS & CONDITIONS**

This offer is exclusive to Wiley Authors, Editors, Contributors and Editorial Board Members in acquiring books for their personal use. There should be no resale through any channel. The offer is subject to stock availability and may not be applied retrospectively. This entitlement cannot be used in conjunction with any other special offer. Wiley reserves the right to vary the terms of the offer at any time.

**PLEASE RETURN THIS FORM TO:**

Database Group (Author Club), John Wiley & Sons Ltd, The Atrium, Southern Gate, Chichester, PO19 8SQ, UK author@wiley.co.uk

Fax: +44 (0)1243 770154