

# The NIC/NOC Letter

A publication of the Center for Nursing Classification

"Making quality care visible"

Nursing Interventions Classification/Nursing Outcomes Classification

Volume 9 No. 1 • February 2001

NIC (Nursing Interventions Classification) and NOC (Nursing Outcomes Classification) are standardized languages to describe the treatments that nurses perform and patient outcomes sensitive to these treatments. The Classifications are useful in planning and documenting care, in communicating the essence of nursing to others, and in the development of large databases for research on the effectiveness of nursing care. The research to develop the Classifications is facilitated by the Center for Nursing Classification at the College of Nursing, The University of Iowa. The purpose of this newsletter is to provide current information about the Classifications.

## NEW- NIC AND NOC LINKED TO OASIS

The Health Care Financing Administration (HCFA) requirement that home health agencies collect data concerning patient/client outcomes using the **Outcome & Assessment Information Set (OASIS)** developed by the University of Colorado Center for Health Services and Policy Research has necessarily become the focus of most agencies' efforts to evaluate the results of multidisciplinary home health care. However, a number of studies have concluded that OASIS data alone are not adequate for measuring the results of nursing interventions provided in home health care. In addition, since OASIS data are collected only in the home setting, outcome measurements do not facilitate the coordination of outcome measurement across the continuum of health care. Administrators and nursing professionals have expressed interest in the addition of NIC nursing interventions and NOC outcomes to home care documentation systems in their continuing effort to deliver the most effective home health nursing care.

*NIC Interventions & NOC Outcomes Linked to the OASIS Information Set* is an 83-page monograph that provides linkages based on expert opinion between the data required by the most recent OASIS tool (August, 2000) and the 2000 editions of NIC (standardized nursing treatments) and NOC (nursing-sensitive client outcomes). The linkages are presented as a possible starting place for agencies considering expanded documentation of home health nursing practice to include standardized nursing language. Only the nursing interventions and outcomes that have a relationship with OASIS data elements are included in the linkages. The monograph is available from the Center for Nursing Classification, University of Iowa, NB 407, Iowa City, IA 52242-1121, for \$25. *Advance payment is required with the order. Make checks payable to the Center for Nursing Classification.*

## FORTHCOMING 3<sup>rd</sup> Informatics/Classification Institute

The Institute will be held in Iowa City, **June 24-27, 2001**. Registration will be limited to 50. Keynotes for the Institute will be delivered by **Charles Mead**, Chief Technology Officer, Simone Central Holdings, Inc. in Atlanta, Georgia, and Co-Chair HL7 Patient Care Technical Committee and **Charlotte Weaver**, Vice President and Chief Nursing Officer, Cerner Corporation in Kansas City, Missouri. **Judy Murphy**, Director of Application Development, Aurora Health Care, Milwaukee, Wisconsin will speak on how you work with systems people and other tips. Other presentations will be made by **implementation champions in practice**: Lisa Burkhart, Advocate Health Care, Oakbrook, Illinois; Cel Jennewein, Abbott Northwestern Hospital, Minneapolis, Minnesota; and Cindy Scherb, Immanuel-St. Joseph's—Mayo Health System, in Mankato, Minnesota. There will be a panel of **education champions**: Cindy Finesilver and Debbie Metzler, Bellin College of Nursing, Green Bay, Wisconsin; Rebecca Miller, St. John's School of Nursing, Springfield, Missouri; and Patricia Nolan, Genesis Medical Center, Davenport, Iowa. There will be **on site visits** to two facilities using standardized language in their information systems. There will be **time to talk with developers** of NANDA/NDEC, NIC and NOC. A popular feature from last year, scheduled time for sharing with each other, will be repeated again this year. For more information: contact Jennifer Clougherty, [jennifer-clougherty@uiowa.edu](mailto:jennifer-clougherty@uiowa.edu), phone 319-335-7119, fax 319-335-7129. Web site: [www.nursing.uiowa.edu/orgsyscom/cont\\_ed.htm](http://www.nursing.uiowa.edu/orgsyscom/cont_ed.htm) or [www.nursing.uiowa.edu/news/announce/index.htm](http://www.nursing.uiowa.edu/news/announce/index.htm)



## **NEW-EDUCATIONAL VIDEO**

*(Submitted by Amy Perry, RN, MSN, Director of Nursing Clinical Information, Ann Arbor, MI.)*

**Now available.** An engaging and thought provoking video for nurses about the compelling need to use standardized nursing vocabularies in nursing practice. The video approaches the subject from both a nursing and a health care business perspective. The content of the 11-minute video is focused on the issues and concerns related to integration of standardized nursing vocabularies from the staff nurse perspective. Initially focused on the issues associated with all nursing vocabularies, the video quickly moves the viewer to discussions specific to NANDA, NIC and NOC. This short information packed video is an excellent tool to create awareness and initial acceptance of standardized nursing language for nurses at all levels of practice. The video is intended for nurses, however, it is an effective educational tool for education of all health care audiences. It combines focused dialogue with character animation to increase viewer attention and interest. Available for purchase from the University of Michigan Patient Care Services Department. Call 734-936-2184 or web site: [www.med.umich.edu/nursing/snl](http://www.med.umich.edu/nursing/snl). (Single non-reproducible copy \$310 or single reproducible copy for institutional use \$1000.)

## **NEW FUNDRAISING ADVISORY BOARD**

The newly constituted CNC Fundraising Advisory Board met with the principal investigators of NIC and NOC for the first time December 2, 2000 in Iowa City. The Board is chaired by Jo Tigges of North Liberty, IA. Members include Mary Ann Anderson, East Moline, IL; Ida Androwich, Maywood, IL; Willard Boyd, Iowa City, IA; Joan Carter, Creve Coeur, MO; Kathryn Hope, Springfield, MO; Elizabeth Swanson, Iowa City, IA; and Carol Watson, Cedar Rapids, IA. One of the outcomes of this meeting was the Center's new slogan, "Making Quality Care Visible". Another was the fundraising letter that is going out this month. Thanks to the Board members for their commitment to this work and for their support. If you are interested in discussing a donation to the Center please contact [jbtigges@aol.com](mailto:jbtigges@aol.com) or [joanne-dochterman@uiowa.edu](mailto:joanne-dochterman@uiowa.edu) (319-335-7120).

## **UNIVERSITY OF IOWA APPROVES FUNDS FOR CENTER FOR NURSING CLASSIFICATION**

The Center for Nursing Classification recently received word that a proposal requesting \$30,000 in University of Iowa support for each of the next 3 years for a staff position has been funded. In addition to the University funding, the College of Nursing will support 3 additional years of funding for a half-time director's salary, space, and a small amount of operating funds. Donations and revenues from royalties and licensing of

NIC and NOC products will assist the Center to reach its goal of becoming self-supporting in the future.

## **NIC and NOC REGISTERED IN HL7**

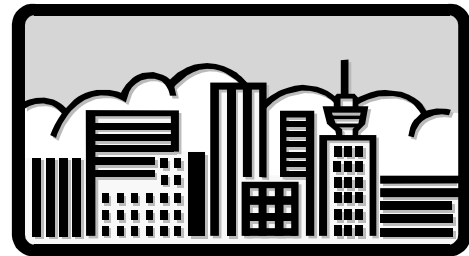
The NIC (Nursing Interventions Classification) and NOC (Nursing Outcomes Classification) are now officially registered as HL7 terminologies. Final registration was approved at the January 11, 2001 meeting of the HL7 Vocabulary Technical Committee. Committee approval followed a process of review of written materials about each Classification.

## **NIC and NOC IN TURKEY**

Joanne McCloskey Dochterman and Marion Johnson presented a two day conference on standardized nursing language as part of the 1<sup>st</sup> International and 8<sup>th</sup> National Nursing Congress in Antalya, Turkey October 29-November 2, 2000. The conference was planned by the faculty of Marmara University in Istanbul and co-sponsored by the Turkish Nurses Association and the International Council of Nurses. Approximately 500 nurses from all over Turkey were in attendance and very interested in learning about NIC and NOC. Talks and discussion were conducted through simultaneous translation. This was an interesting experience for the presenters. Thank you Heyide Arslan and your faculty for inviting us.

## **SAVE THE DATE**

Replacing the every other year NANDA conference, a NANDA, NIC and NOC conference will be held at the Mark Plaza Hotel in downtown **Chicago, April 11-13, 2002**. A committee of representatives of NANDA, NIC and NOC is planning the conference which will include recent developments in the languages, presentations on research and practice initiatives, and time for networking. Traditional NANDA business functions will be included in afternoon sessions. The conference will be run by Nursecom; e-mail Ken Cleveland ([ken.cleveland@rmpinc.com](mailto:ken.cleveland@rmpinc.com)) to get your name on the mailing list.



**NNN02**  **CHICAGO**



The University of Iowa College of Nursing  
Center for Nursing Classification  
“Making Quality Care Visible”

### Major Accomplishments 1998-2000

- Published new editions of NIC and NOC classifications
- Published new book with linkages between NANDA, NIC and NOC
- Conducted measurement research for NOC in 13 sites
- Participated in conferences to develop a Reference Terminology Model for nursing
- Incorporated NIC into Alternative Link's ABC reimbursement codes for alternative providers
- Negotiated with SNOMED to incorporate NIC and NOC
- Founded and offered twice the Institute on Nursing Informatics and Classification
- Held a second NANDA, NIC, and NOC conference and planning a third NNN conference in April 2002
- Collaborated with NANDA to form the NNN Alliance
- Taught 2 distance education courses on standardized language
- Linked NIC and NOC to RAP (Resident Assessment Protocols) and OASIS (Outcome and Assessment Information Set) and produced monographs
- Prepared and submitted NIC and NOC for HL7
- Submitted large interdisciplinary grant proposal for effectiveness research using standardized language.
- Provided research experience for 13 students
- Provided educational experiences for visitors from seven other countries
- Gave presentations in various parts of US as well as England, Japan, Korea, Italy, Spain, The Netherlands, New Zealand, Turkey, and Wales

## NOC RESEARCH GRANT UPDATE



The Nursing Outcomes (NOC) research team has just completed the third year of a four year NIH-NINR grant entitled "Evaluation of Nursing-Sensitive Patient Outcome Measures". One of the aims of the grant is to Assess the adequacy of measures for the NOC outcomes in specialty practices and settings across the care continuum. This is a major focus of the grant. The 190 outcomes developed in the first phase of the grant are being evaluated in the following eleven clinical sites: Mayo Medical Center, Rochester, MN; Genesis Medical Center, Davenport, IA; Advocate Parish Nurses, Chicago, IL; Alverno Health Care Facility, Clinton, IA; University of Iowa Hospitals and Clinics, Iowa City, IA; St. Joseph's Immanuel Hospital, Mankato, MN; Austin Medical Center, Austin, MN, and four sites in Michigan - Detroit Medical Center, Pontiac-Oakland Visiting Nurse Association, Huron Valley Visiting Nurse Association, Westside Nursing Center and North Campus Nursing Center.

We have now collected nearly 8,000 ratings on over 160 different outcomes for more than 1500 patients. The preliminary data is very encouraging. The inter-rater reliability for the ratings, using the criterion established for the research, is 90%. One of the questions we have started to examine is whether inter-rater reliability varies by the type of scale used for rating an outcome.

A second aim of the NOC grant is to Describe the NOC outcomes that are most relevant for patients in specialty nursing practice areas and in selected field sites representing the continuum of health care. Questionnaires were sent to 13 specialty organizations asking that an expert nurse(s) representing the organization complete the questionnaire. We received a 100% return rate from these specialty organizations. The 7 top ranked outcomes according to specialty associations are:

- Neurological Status,
- Knowledge: Personal Safety,
- Knowledge: Treatment Regimen,
- Knowledge: Treatment Procedures,
- Participation: Health Care Decisions,
- Vital Signs Status
- Coagulation Status.

In addition, the questionnaire assessing the relevance of outcomes by area of specialization was recently mailed to an additional 29 nursing associations. To date we have received 10 responses. Once the remaining 19 nursing association questionnaires are returned we will compare the results with responses to similar surveys about nursing interventions.

## RECENT GIFT SUPPORT RECOGNITION

We thank the following individuals who have contribute to the Center for Nursing Classification endowment since the October 2000 issue:

Scott & Kem Anderson, *West Des Moines, IA*  
Myrtle Aydelotte, *Rochester, NY*  
Wes Butterfield, *Cedar Rapids, IA*  
Joan & Don Carter, *Creve Coure, MO*  
Janice Denehy, *Iowa City, IA*  
Joanne Dochterman, *Swisher, IA*  
Ann & John English, *Summit, NJ*  
David Hickman, *Des Moines, IA*  
Lois & Paul Hoskins, *Ashton, MD*  
Marion Johnson, *Coralville, IA*  
James and Carolyn Kacena, *Burlington, IA*  
Marilyn Kinne, *Cedar Falls, IA*  
Nancy Lathrop, *West Branch, IA*  
Eleanor McClelland, *Iowa City, IA*  
Dolores Rose, *Solon, IA*  
Martha Craft Rosenberg & Guy Rosenberg,  
*Iowa City, IA*  
Cindy & Glenn Scherb, *Kiester, MN*  
Kathryn & Melvin Schweer, *Iowa City, IA*  
Gretchen Smith, *Solon, IA*  
Mary Smith, *Mount Pleasant, IA*  
Douglas & Bonnie Wakefield, *Iowa City, IA*

*Checks can be made out to Nursing Classifications Fund—Account #30-612-071 and mailed to the University of Iowa Foundation, C/O College of Nursing Development Director, P.O. Box 4550, Iowa City, IA 52244-4550.*

## FUNDRAISING LETTER SENT

Under separate mailing, you will be receiving a letter asking for a contribution to the Center's Endowment Fund. Please do not ignore this request—your contributions are essential to the ongoing operation of the Center. All contributions are tax deductible. In a separate box on the next page we have listed the major accomplishments of the Center in the past 2 years. This work is not possible without ongoing funding. If every nurse who finds the NIC and NOC classifications useful contributes just \$25 we will have enough money to fund the ongoing upkeep of the classifications. If you did not get a letter or need a new letter, please contact [barbara-head@uiowa.edu](mailto:barbara-head@uiowa.edu).

## IMPLEMENTATION FORMS

We are often asked at the Center for examples of implementation forms using NIC and NOC. The recent editions of NIC and NOC include many examples. For example in chapter 3 of the NIC, 3<sup>rd</sup> edition (2000) there are examples of electronic screens as well as paper and pencil care planning/ documentation forms used in a variety of agencies from acute care to public health, school nursing, and hospice care. There are also

examples of a critical path using NANDA, NIC and NOC and two staff competency evaluation forms based on NIC. Examples of forms used in education such as a student learning nursing care plan and the course content for a master's course are included. The NOC 2<sup>nd</sup> edition (2000) in the Appendix includes additional examples of care plans and critical paths as well as a case study demonstrating the use NANDA, NIC and NOC. See information at the end of this newsletter about how to order the most recent editions of the classifications.

## NEW GERIATRIC NURSING REFERENCE

Nursing Care of Older Adults: Diagnoses, Outcomes, and Interventions (2001). Meridean Maas, Kathleen C. Buckwalter, Mary A. Hardy, Toni Tripp-Reimer, Marita Titler and Janet Specht (Eds.). St. Louis: Mosby.

This book offers faculty, students and practicing nurses a unique approach to caring for this ever-increasing segment of the patient population. This text is the first geriatric nursing book to incorporate standardized nursing diagnoses (NANDA), nursing sensitive outcomes (NOC), and nursing interventions (NIC)-systems that are rapidly becoming universal standards. The book is organized by functional health patterns which provide a logical framework for the most common geriatric nursing diagnoses. The theoretical and research bases for outcome and intervention selection are presented. Case studies are provided to illustrate clinical reasoning and documentation. The book is available at Mosby 1-800-545-2522 and the cost is \$57.00.

**Clarification:** The October 2000 NIC/NOC Letter listed this book under PUBLICATIONS OF INTEREST by a different title and as a 2<sup>nd</sup> edition. This was based on pre-publication information – we apologize for confusion this may have caused. Information in the article above is current.

## QUESTION AND ANSWER—FROM THE LISTSERVE

**Question** by Amy McClune, *Hamot Medical Center, Erie, PA:*

“We are redesigning our inpatient acute care documentation system with a goal of efficiency and understandability. We want to use both NIC and NOC in the design. We are presently running into questions regarding the NOCs. Specifically, if we use only the title and the scale, the outcomes seem vague and not objective and measurable. If we include the indicators, it somewhat defeats the goal of efficiency because it adds a great deal of content to the system. Has anyone come up with a middle ground method of using the outcomes in a meaningful way in inpatient acute care?”

**Answer** by Meridean Maas, *one of the developers of NOC, Iowa City, Iowa:*

*Your question has arisen before. First, let me say that I believe that nurses do not have enough*

confidence in their judgments and that if we encourage them to trust what they know, most can make the needed judgments. I also believe that we will be amazed at the consensus that we will find among nurses in making judgments. This is not to say that there are not some ways to improve the scales. We are learning with our current research that is testing the interrater reliability and criterion validity of the outcomes and measures in 12 clinical field sites that one or two of the scales may need some revision. A suggestion that a number of nurses have made with some of the scales is to use percentage ranges for anchors, for example, a rating 5 equals 90-100%. A recommendation on percentages will be made after more data are analyzed. We are finding, however, with the preliminary data that interrater reliability is quite high, indicating that the judgments of two nurses who independently rate an outcome on the same patient at the same time (within one hour of each other) are in high agreement. This supports my belief that nurses can make these judgments.

The indicators do help nurses make the judgments and if they can be included, I think that is best. You are not alone, though, in not choosing to do so. Choosing the outcomes that are most likely to be used and then supplying a handy electronic or hard copy of the indicators might be considered. Thank you for your question. The NOC research team will continue to consider all of the issues that users raise and we appreciate and desire your feedback. It will take our whole community to make these systems useful to nurses, as well as providing reliable and valid data to make nursing visible and data that can be analyzed to examine nursing effectiveness.

#### **FREQUENTLY ASKED QUESTIONS ABOUT NOC**

This question is a common one received by the NOC office. The answer is found in: Iowa Outcomes Project - Johnson, M., Maas, M. & Moorhead, S., Eds (2000). *The Nursing Outcomes Classification* (2<sup>nd</sup> ed.), p. 63. St. Louis: Mosby.

##### **Question:**

Why is it necessary for nurses to have their own list of outcomes?

##### **Answer:**

NOC outcomes are patient, family, and community level outcomes that are responsive to nursing interventions. They are not intended to be unique to nursing. Clearly most, if not all, patient outcomes are influenced by multiple health care providers, as well as by other patient, family, and community/population

characteristics, and by environmental factors. However, it is vitally important for nurses to measure the effects of their interventions on patient outcomes. The NOC provides indicators for each outcome that are more sensitive to nursing interventions. Thus, whereas the team expects all disciplines to use the majority of the outcomes, different indicators will be of most use to different health care disciplines. Without discipline-specific indicators for shared outcomes, it will be impossible to monitor the accountability of each discipline for its contribution to outcome improvement or deterioration. To ensure that the contributions of nursing interventions to patient, family, and community level outcomes are not credited to other health care providers, standardized nursing data elements must be included in clinical data bases. Large data sets that include these data along with other salient system; patient, family, or community level and provider characteristics; are necessary to isolate the independent effects of nursing interventions on patient outcomes.

#### **JOINING THE LISTSERVE**

The Center's listserv is a good place to get help about use of NIC and NOC or to discuss issues related to standardized language. Over 350 subscribers from both education and practice across the US and in other countries participate. The list is a good place to network with others interested in nursing classification development and implementation. If you wish to join the list, **send the following message:**  
subscribe  
end

**to: classctr-request@list.uiowa.edu**

Put the two-word message in the "body" of your message, not on the subject line. Leave the subject line blank. Put each word on a separate line as shown above. You will receive a welcoming message with further instructions about commands used for the list. If you need help with subscribing, contact the list manager at : barbara-head @uiowa.edu.

The NIC/NOC Letter, is sponsored by Harcourt Health Sciences/Mosby-Year Book and published two times a year in February and July. The newsletter is currently mailed to over 1,600 individuals in 50 states plus Washington, DC and Guam and 22 foreign countries, including Australia, Austria, Belgium, Brazil, Canada, China, Denmark, France, Germany, Iceland, Japan, Korea, Netherlands, New Zealand, Norway, Saudi Arabia, Spain, South Africa, Sweden, Switzerland, Taiwan, and the United Kingdom.

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***NOTICE TO OUR NEWSLETTER SUBSCRIBERS:***

*Beginning with this issue, the NIC/NOC Letter will be published only two times a year, in February and July.*

*In addition, subscriptions to areas outside the USA may need to be sent via electronic mail. Subscribers outside the USA are asked to send their e-mail addresses to: [barbara-head@uiowa.edu](mailto:barbara-head@uiowa.edu). Please indicate "For NICNOC Letter" in the subject line.*

*The increased costs of mailing paper copies of the newsletter have made these changes necessary.*

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***HOW TO CONTACT THE CENTER FOR NURSING CLASSIFICATION***

*Mailing address: Center for Nursing Classification*

*The University of Iowa, NB 407, Iowa City, IA 52242-1121*

*Telephone: 319-335-7051*

*E-mail: [classification-center@uiowa.edu](mailto:classification-center@uiowa.edu)*

*Website: <http://www.nursing.uiowa.edu/cnc>*

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***SUBMISSIONS TO NEWSLETTER WELCOME***

*We welcome submissions to the newsletter. Please send them via e-mail or on disk to Barbara Head ([barbara-head@uiowa.edu](mailto:barbara-head@uiowa.edu)), Center for Nursing Classification, Nursing Building 407, The University of Iowa, Iowa City, IA. 52240-1121. Please indicate who is submitting the contribution, title and credentials, and how to contact someone for further information. Sharing of information assists all of us in the continued use and development of the classifications. All contributions will be reviewed and possibly edited by newsletter staff.*

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***MOSBY/HARCOURT CONTACTS***

*Current contacts related to permissions, licensing, and marketing are as follow:*

*Barbara Cullen, NIC and NOC Executive Editor 215-238-8305*

*Permissions: Julie Lawley (Information - 215-238-7869;*

*Requests - FAX - 215-238-8483)*

*NOTE: Permission takes 4-6 weeks to process*

*Licenses: Karen Lieb 215 238-2223; E-mail: [nicnoc@harcourt.com](mailto:nicnoc@harcourt.com)*

*Marketing: Teresa Hajdu. 215-238-7856. FAX 215-238-8495.*

## SELECTED CENTER PRODUCTS

(See a complete listing of products at: [www.nursing.uiowa.edu/cnc/CTRPRODS.HTM](http://www.nursing.uiowa.edu/cnc/CTRPRODS.HTM))

*Price*

### **NIC Interventions & NOC Outcomes Linked to the OASIS Information Set**

This 83-page monograph provides linkages based on expert opinion between the data required by the most recent OASIS tool (August, 2000) and the 2000 editions of standardized nursing classifications developed at the University of Iowa, NIC (nursing treatments) and NOC (client outcomes). The linkages are presented as a possible starting place for agencies considering expanded documentation of home health nursing practice to include standardized nursing language.

**\$25**

### **NOC Pocket Cards – UPDATED FOR 2<sup>nd</sup> EDITION**

This set of laminated cards is a quick reference for the NOC outcomes, which are organized into the NOC 2<sup>nd</sup> edition 7 domains. The domains include Functional Health, Physiologic Health, Psychosocial Health, Health Knowledge & Behavior, Perceived Health, Family Health, and Community Health.

**\$20**

### **SEND ORDERS TO:**

*Center for Nursing Classification*

*The University of Iowa - College of Nursing NB 407A*

*Iowa City, IA 52252-1121*

**NOTE: Prepayment is required for all orders.**

***Make checks payable to:  
Center for Nursing Classification***

## NIC and NOC PRODUCTS AVAILABLE FROM MOSBY- 800/545-2522

### ***Nursing Outcomes Classification (NOC)***

*Iowa Outcome Project. M. Johnson & M. Maas, (Eds.).(2000). Nursing Outcomes Classification (NOC). (2<sup>nd</sup> ed.) St. Louis: Mosby-Year Book, Inc.*

**\$37.95**

### ***Nursing Interventions Classification (NIC)***

*Iowa Intervention Project. J. McCloskey & G. Bulechek (Eds.). (2000). Nursing Interventions Classification (NIC). (3<sup>rd</sup> ed.). St. Louis: Mosby-Year Book, Inc.*

**\$37.95**

### ***Nursing Diagnoses, Outcomes, & Interventions: NANDA, NIC, and NOC Linkages.***

*Johnson, M., Bulechek, G., McCloskey Dochterman, J., Maas, M., & Moorhead, S. (2001). St. Louis: Mosby-Year Book, Inc.*

**\$37.95**

# NICNOCNICNOCNICNOCNICNOCNICNOC

**Moving?** Please call, e-mail, or make changes on the address below and mail this panel or photocopy to the Center for Nursing Classification.

Visit our website @: [www.nursing.uiowa.edu/cnc](http://www.nursing.uiowa.edu/cnc)

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