Arthritis Research

NEWSLETTER

January 2003

Notes From the Director - 2002 Research Highlights

Happy New Year! And thanks to all of you who help so much by completing the research questionnaires. 2002 was a busy and successful year at the National Data Bank (NDB). The following are highlights from the research produced from your data:

RA Treatment does more than relieve symptoms

The major publication of 2002 regarded the treatment of rheumatoid arthritis. The research came from the NDB and Dr. H. Choi at Harvard University. It was reported in the Lancet Medical Journal that methotrexate increased life expectancy among persons with RA who used that treatment. This important study – the very first to show that RA treatment can do more than just relieve symptoms – received national press coverage and international recognition.

The 2002 American College of Rheumatology (ACR) Scientific Meeting the Largest Ever

The NDB presented 16 research topics at the 2002 National American College of Rheumatology meeting that was reported as the highest attended scientific meeting in ACR history. In 2001, the NDB was recognized as presenting more research results than any other U.S. university or research group, and

in 2002 we were recognized again with second highest number of presentations. Many of the 2001 and 2002 presentations have been accepted for publication in medical journals.

Research is presented in many ways at national research meetings and typically those topics selected for lecture presentations, or discussion, are considered more important than poster presentations. At the 2002 ACR meeting the NDB presented 12 posters, 2 discussions, and 3 lecture presentations. The primary areas of research presented included Safety, Economics, RA Treatment, Clinical Aspects and Health Services.

Direct Medical Costs of RA, and the Cost of Disability get Attention

The 2002 ACR annual meeting was the first time the NDB published research specifically aimed at understanding and measuring the costs associated with rheumatoid arthritis treatment, disease severity and work disability, and overall lifetime direct medical costs. All of these topics are getting attention from national press. Some questions that have not always been easy to answer include how disability is defined and measured, and how do changes in disease activity impact the economics of arthritis patients and the burden expected on social programs.

Toward a Definition and Method of Assessment of Treatment Failure and Treatment Effectiveness: the Case of Leflunomide Versus Methotrexate

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Abstract

cition. Time to tentiment discontinuation is an accepted method of assessing tentiment effectiveness in the community, but assumption to channeling bias, tentiment effectiveness in the community, but assumption to consider the security of the control of the definition of restment failure to include discontinuation or addition of a second definition of restment failure to include discontinuation or addition of a second (ARAGAD to 1) contained featurement evenue methorecast effectiveness in clinical practice, 2) obtains an estimate of overall clinical effectiveness, and 3) to identify factors associated with tentiment accesses and failure in addition, we test the discontinuation of the control o

Methods. Using the National Data Bank for Rheumatic Diseases (NDB) longitudinal data bank, 1,431 patients who had not received either lefulmomide or methotecase (MTX) were followed from 1998 through 2010. Fatients were assessed at 6 month intervals for periods up to 36 months by mailed upstermaries comening DMARD thereny and demographic and RA severity factors. Life table methods and Cox regression were used to assess treatment failure, defined as time to discontinuation; or to the addition of a second DMARD.

Readus, Ev. TS6 patients on fellomomide, the failure rate was 5.5 per 100-patient year (PV), and the moduli trate to failure was 15.9 Sec. 121, 317, months, For 675 patients on MIX he failure rate was 7.3 per 100 Py, and the medium failure in time was 14 (21, 3) months. These differences were not significant Overall, the entire of discontinuation was 78.3% of the failure rate. Discontinuation was produced to the control of the control of the control of the control of the produced of the control of the control of the control of the control of the treatment of the Challed Theorem of the control of the Challed treatment of the Challed Theorem of the control of the Challed treatment of the Challed Theorem of the control of the Challed treatment of the Challed Theorem of the control of the Challed treatment of the Challed Theorem of the Challed Theorem of the Challed treatment of the Challed Theorem of the Challed Theorem of the Challed treatment of the Challed Theorem of the Challed Theorem of the Challed treatment of the Challed Theorem of the

Conclusion. In an observational clinical trial using a contemporary longitudinal data bank, with time to treatment failure as the cutocone, Jeltmonnide and MTX had equal effectiveness as measured by time to treatment failure. Treatment failure restered to the content of the content failure. Treatment failure are were substantially greater than noted historically. Given the availability of many efficacious additional treatments, this increase in failure rate appears to configurate the content of t

The rate of prantents failure among R4 partients receiving fullenomidal or memberarum. The survival curves and admiss into in to treatment failure was similar for patients beginning on MTX and for those starting full meaning for many failures (e.g., 1997, 1998, 1984), as shown in Table 2 and Figure 1, she median time to treatment failure was 14 (99% CTI 2, 18) months for MTX and 15 (99% CTI 2, 13) months for MTX and 15 (99% per 100) patient-years for MTX and full months, preparitively. The survival curve were not significantly different failer adjusting for the following major covariates of Table 1; age, see, disease duration, total moone, prohibinor use, previous MTXARS, and preventures vilvale Table 2, and failings (fig mat text, Clissq-q-MXARS), and preventures vilvales of MTX and failings (fig mat text, Clissq-q-MXARS).

Tables 2 and 3 and Figures 1 and 1 d provide additional insight into the discontinuational difficient process. As shown in Table 3, for patients who were treatment failures, more patients failed MTX than lefluromated by additional DMARD(s) (40.9% vs. 32.9%), to more discontinuated left-mornide than MTX (77.7% vs. 59.1%). Additions were not easy more frequent among MTX patients, but they also occurred much earlier (Figure 1c) (fig. grant test, Chi. 57.1% vs. 59.1%). Additions were not easy more frequent among ST 38.7% pro2000. Conversely, to senternel differences related to discontinuation.

Demographic and severity variables. Table 1 describes the demographic, reatment, and clinical severity variables for the study participants. Although patients did not differ in age, sex or other demographic characteristics, satients beningling left incredite bard slichtly more severe PS compared to

	MTX (N=675)	Leflunomide (N=756)		
Variable	Mean (SD) or %	Mean (SD) or %	t (chi-2)	P-value
Age (years)	59.87 (14.14)	58.96 (12.31)	1.293	0.196
Sex (% male)	20.59	21.43	(0.1500)	0.698
White' (%)	90.22	91.53	(0.7434)	0.389
High school graduates (%)	87.70	89.95	(1.817)	0.178
College graduates (%)	24.33	26.23	(0.6745)	0.411
Total family income (\$)	41,896 (27,714)	43,730 (28,284)	-1.236	0.217
Comorbidity (0-11)	2.20 (1.84)	2.18 (1.72)	0.1678	0.867
Disease duration (years)	12.21 (10.82)	13.28 (10.38)	-1.908	0.057
Prior Prednisone (%)	54.22	68.78	(32.06)	0.000
Number of previous DMARDs (%)			(29.89)	0.000
0	27.11	23.81		
1	49.48	43.92		
2	18.37	21.03		
3	4.89	7.94		
4	0.15	2.78		
5	0.00	0.53		
HAQ disability (0-3)	1.22 (0.71)	1.30 (0.68)	-2.328	0.020
Pain (0-10)	4.53 (2.79)	4.61 (2.66)	0523	0.601
Global severity (0-1)	3.99 (2.61)	3.90 (2.35)	0.681	0.496
Fatigue (0-10)	4.79 (3.03)	5.18 (2.80)	-2.544	0.011
Sleep disturbance (0-10)	4.06 (3.20)	4.06 (3.13)	0.004	0.997
Satisfaction with health (-2 to 2)	0.09 (1.27)	0.12 (1.19)	-0.569	0.570

HERAPY	PATIENTS	AT RISK (PATIENT- YEARS)	FAILURE RATE PER 100 PATIENT- YEARS	25% [95% CI] (MONTHS)	50% [95% CI] (MONTHS)	75% (95% CI) (MONTHS)
Treatment fa	lure: discontinuati	en or addition of	DIMARD			
TX.	675	496.7	57.3	6 (4.6)	14 [12,18]	
effunomide	766	749.3	55.5	5 (4.5)	16 [13,17]	
			MAROs among all			
1TX	675	559.4	33.2	9 (6,12)	20 117 201	:
ITX effunomide	675 756	559.8 939.8	33.2 42.4	9 [6,12] 6 [5,6]	22 [17,28]	
ITX effunomide	675 756	559.8 939.8	33.2	9 [6,12] 6 [5,6]	22 [17,28] 4 (3,6)	7(6,11)
TX effunceside Treatment di	675 756 scontinuation sub-	559.8 939.8 enelysis: discen	33.2 42.4 linuations of DMAR	9 (6,12) 6 (5,6) 1D only		7 (6,11)
effunceside Treatment de TTX effunceside	675 756 scontinuation sub-	559.8 939.8 analysis: discon 90.4 182.8	33.2 42.4 Insultions of DMAF 205 173	9 (6, 12) 6 (5,6) 1D only 2 (1,2)	4 [3.6]	
effunceside Treatment de TTX effunceside	675 756 accordination sub- 165 317	559.8 939.8 analysis: discon 90.4 182.8	33.2 42.4 Insultions of DMAF 205 173	9 (6, 12) 6 (5,6) 1D only 2 (1,2)	4 [3.6]	

 DMARD
 Treatment failure by DMARD addition (%)
 Treatment failure by disconfirmation (%)
 All treatment failure by failures (%)

 MTX
 40.9
 0.1
 100% (279)

 Leflunomide
 32.9
 77.1
 100% (2411)

Why is to discontinuation indiffuse pattern for treatment failure different among frequent dependent and the Transact pattern of North above, pattern to infloreminde water most indiffused because of discontinuation, and MTX patterns because of the user failured because of discontinuation, and MTX patterns because of the user failured because of the down that the major adultions in thereby were with sair TXT agents, said that MTX patterns were mapped and the said of the continuation of the said of the

DMARD therapy	MTX (N=114)	Leflunomide (N=94)
	%	96
Etanercept	21.1	44.7
Infliximab	56.1	38.3
Hydroxychloroquine	9.6	7.4
Sulfasalazine	8.8	6.4
Minocycline	2.6	4.3
Azathioprine	1.8	3.2
MTX		0.0
Leflunomide	0.9	

Proficing treatment failure. To study treatment failure, we used demographic variables, treatment and severity variables obtained just prior to treatment start, and AE data occurring prior to treatment failure. In univariate analyses, AE was the strongest predictor of treatment failure (Table 5) Health satisfaction was the highest maked climical variable as a predictor of drug status, followed by global severity.

In a multivariate model of treatment failure (Table 6), only AE, comorbidity, pair satisfaction with health and global severity were significant at a level of 0.1 or let Addition of treatment group had no appreciable effect on regression hazard ratics In addition, treatment effect was not significant when added to the model in Tabl ALD, o. 60, 60, 61, 63, 64, 64, 65, 61.

Variable	Ratio	S.E.	Z	value	C.I.	C.I.
Treatment Side effects (yes/no)	1.78	0.13	7.37	0.000	1.51	2.04
Global severity (0-10)	1.10	0.02	5.93	0.000	1.06	1.13
Heath satisfaction (-2 to 2)	1.20	0.04	5.65	0.000	1.12	1.27
Pain (0-10)	1.08	0.02	5.60	0.000	1.05	1.11
Fatigue (0-10)	1.06	0.01	4.56	0.000	1.04	1.09
Health satisfaction (no/yes)	1.43	0.11	4.52	0.000	1.23	1.68
Health Assessment Questionnaire (HAQ) (0-3)	1.26	0.07	4.20	0.000	1.13	1.41
Sleep disturbance (0-10)	1.05	0.01	4.05	0.000	1.03	1.07
Number of comorbid conditions	1.08	0.02	3.99	0.000	1.04	1.13
High School graduate (yes/no)	0.87	0.10	-1.29	0.197	0.68	1.08
Age (years)	1.00	0.00	-1.19	0.233	0.99	1.00
Prior prednisone (ves/no)	1.10	0.09	1.17	0.243	0.94	1.28
Total income (US\$)	1.00	0.00	-0.84	0.398	1.00	1.00
Male gender (ves/no)	0.95	0.09	-0.54	0.589	0.79	1.14
Disease duration (years)	1.00	0.00	-0.29	0.770	0.99	1.01
Number of prior DMARDs	1.00	0.04	-0.05	0.961	0.92	1.08

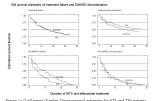


Figure 16 (Right upper) Kaplan-Neeler survival estimates for 675 and 756 patier treated with MTX and leftlumoide, respectively. Failure is treatment discontinuation or use of additional DMARD therapy. Figure 1b (Right upper) Kaplan-Meier survival estimates for 675 and 756 patie

discontinuation.

Figure 1c (Left lower) Kaplan-Meier survival estimates for 114 and 94 patients treated with MTX and leftunomide, respectively. Only patients adding addition

treated with MTX and leftunomide, respectively. Only patients adding additions therupy are analyzed. Failure is the use of additional DMARD therupy.

Figure 1d (Left right) Kaplan-Meier survival estimates for 165 and 317 patients treated with MTX and leftunomide, respectively. Only patients discontinuing thereave we analysed Failure is teatment discontinuing.

	Hazard			p.	95%	95%
Variable	Ratio	S.E.	Z	value	C.I.	C.I
Treatment Side effects (vesino)	1.76	0.13	7.37	0.000	1.51	2.04
Global severity (0-10)	1.10	0.02	5.93	0.000	1.06	1.13
Heath satisfaction (-2 to 2)	1.20	0.04	5.65	0.000	1.12	1.27
Pain (0-10)	1.08	0.02	5.60	0.000	1.05	1.11
Fatigue (0-10)	1.08	0.01	4.58	0.000	1.04	1.09
Health satisfaction (no/yes)	1.43	0.11	4.52	0.000	1.23	1.68
Health Assessment Questionnaire (HAQ) (0-3)	1.26	0.07	4.20	0.000	1.13	1.41
Sleep disturbance (0-10)	1.05	0.01	4.05	0.000	1.03	1.07
Number of comorbid conditions	1.08	0.02	3.99	0.000	1.04	1.13
High School graduate (yes/no)	0.87	0.10	-1.29	0.197	0.68	1.08
Age (vears)	1.00	0.00	-1.19	0.233	0.89	1.00
Prior prednisone (ves/no)	1.10	0.09	1.17	0.243	0.94	1.28
Total income (US\$)	1.00	0.00	-0.84	0.398	1.00	1.00
Male gender (yes/no)	0.95	0.09	-0.54	0.589	0.79	1.14
Disease duration (years)	1.00	0.00	-0.29	0.770	0.99	1.01
					0.92	

The data from this study suggest the methods we used here may be helpful to judge netual effectiveness in clinical practice. Because we analyze patients from many the theumatologists, the results are a measurable reflection of contemporary practice, and using standardized speciestomates, the same level of information is obtained from each patient. We believe that the use of treatment failure ather than treatment discontinuation is an important advance in assessing treatment value. Besides being helpful in commaring during that may have different analyses for failure, the method also provides an insulation too confirmation.

In summary, we have performed a clinical trial using a contemporary longitudizal data bank. Using time to treatment failure as the outcome, the results were similar for leafluousined and MLTs. The effect of selective events was equal to obtain terminary and AEs were the most important predictor coloration. But non-perioded failure was the most important effect. Treatment failure rather than treatment discontinuation more accurately describes treatment effect. Finally, it is possible to conduct a clinica trial in the setting of an observational study, as we have shown how the conduct and the conduct of the condu

The Relationship Between Methotrexate and Arava Generate Larger Questions

Liver function is monitored for patients taking either Methotrexate or Arava. The NBD presented data from a long-term study (data provided by you) of 14,997 patients who have used these medications. The data indicated a low rate of serious liver problems. The lecture presentation generated a lot of interest at the 2002 ACR meeting and was one of the highest attended events. Discussions from this presentation and other related topics lead to questions about the effect of newer medications and how they gain acceptance over time, and how medication failure is defined. Both of these areas are currently being researched.



Dr. Wolfe and NDB staff talk to Rheumatologists at the 2002 ACR Meeting in New Orleans.

... as debates over Medicare and social security disability payments continue, collecting accurate work history and disability data are becoming critical ...

CHORD Health Outcomes in Rheumatic Diseases Fellowship Program

In 2002 the NDB along with Vanderbilt University lead a fellowship training program in rheumatology aimed at providing broad experience in arthritis research for new rheumatologists.

Until now there have been no training programs in the US for rheumatologists-in-training that are designed to study the outcomes of rheumatoid arthritis, osteoarthritis and fibromyalgia as they are influenced by treatment. The CHORD program addresses these issues by providing specific training in research method and data collection. A fellow is a physician who is undergoing special training in rheumatology research.

Under the direction of Dr. Fred Wolfe (NDB) and Dr. Ted Pincus (Vanderbilt University), 15 CHORD fellows were selected. The fellows have designed research studies that range from determining rates of cancer, to developing databases of RA patients in Argentina and Portugal. In order to integrate the foreign data into the NDB, the NDB is translating our usual questionnaire into Spanish and Portuguese. The completion

date for these questionnaires is early 2003. These are exciting projects as they will move NDB and rheumatology research into the global arena.

Other CHORD projects include:

- 1). Steroids: good or bad?
- 2). The effect of fatigue on working persons with arthritis.
- 3). Determine the rate and predictors of infection in RA;
- 4). What happens to the dose of Remicade? Does it go up or remain stable?
- 5). Stress and arthritis.
- 6). How safe is methotrexate? How often should laboratory tests be done?
- 7). How common are ulcers? How can they be prevented?
- 8). Do non-steroidal anti-inflammatory medications (NSAIDs) interfere with the protective effect of aspirin in the prevention of heart attacks?
- 9). Do fat lowering drugs called "statins" help with the inflammation of arthritis? And many more ...

Web Quest: Preparing for 2003

January 2003 brings us to our third on-line research questionnaire. We call them WebQuests. The first two WebQuests were very successful with over 1000 questionnaires completed each time. Thanks to everyone who participated and gave us feedback to make the on-line questionnaire more efficient and user-friendly.

The last time our goal was to make the WebQuest faster, more convenient and easier to use. Your feedback indicated that we made some progress, but there were still some bugs. We have corrected the bugs and redesigned parts of the questionnaire to be even easier to use.

For those of you who have *never* filled out the questionnaire on-line, the following summarizes the steps necessary. You may need to upgrade your web browser (Internet Explorer or Netscape) before you start the WebQuest. If you completed the WebQuest last time, updating your browser is *not required*.

I. Requirements to run the WebQuest: make sure you have the latest browser upgrade

The WebQuest uses the very latest in browser technology to enhance web pages and decrease the time it takes to complete the questionnaire. In order for the WebQuest to operate efficiently you need to have Internet Explorer version 5.5 (or higher) or Netscape 6.0 (or higher). If you don't know what version you have, click on 'help' when you are in your browser, then go to 'about.' It will display the version you are using. If you are a Mac user the WebQuest will work with Netscape for Mac version 6.1 and higher. However, we recommend using the Netscape 7.0.

FOR MORE INFORMATION OR TO PARTICIPATE

Arthritis Research Center Foundation, Inc. 1035 North Emporia • Suite 288, Wichita, KS • 67214 Director -- Frederick Wolfe, MD Executive Director -- Kathleen Urbansky please call 1-800-323-5871 ext. 133 or email info@arthritis-research.org To get the newest version updates for Internet Explorer or Netscape go to our website at and click on WebQuest. Then follow the instructions.

II. How to complete the WebQuest: using your Private Link

The NDB will email you a private link. A private link is a special code that only you will have. It's called a link because when you click on it in your email message it will take to you the questionnaire. Only you will receive this link, so only you will have access to your data.

When you receive the email click on the link. If it does not bring up the first page of the WebQuest, it is possible that your email program does not recognize links. In that case you will need to copy the link from the email to the browser. Paste it in the place you type in the URLs or addresses you use to go from site to site.

If you have never copied a link before it may be a bit tricky. Instructions can be found on our website at under WebQuest.

III. Reporting Errors

Occasionally people have run into errors after they successfully updated the Browser and linked to the WebQuest. We would like to know if you have any problems or errors. If you get an error we need as much detail as possible about the error to understand the problem and help fix it. The best data you can send us are the details of the last page you made it to. Better yet is to email the page too us. This way we can isolate the problem, correct it, and let you know when the problem is resolved.

For more details on updating your browser please visit our web site at www.arthritis-research.org under WebQuest

To send us the "problem" web page please review the instructions at www. arthritis-research.org under WebQuest.

Thanks again for your feedback and

patience. We expect this version of the WebQuest to be very useful and easy, and we do not expect significant changes in the future. If you completed the WebQuest last time you will be automatically emailed a new invitation. If you are interested in trying the on-line questionnaire for the first time, or if your email address has changed, please e-mail us at webquest@arthritisresearch.org or call us at 1-800-323-5871. We will send you everything you need to get started.

Glucosamine Intervention Trial for Osteoarthritis: The GAIT Study

For several years dietary supplements such as glucosamine hydrochloride and chondroitin sulfate have been recommended for the treatment of osteoarthritis. Osteoarthritis (OA) is a degenerative joint disease affecting approximately 20.7 million Americans. According to the National Institutes of Health (NIH), OA can be as debilitating as heart disease and accounts for nearly 7 million physician visits every year. Yearly medical expenses for musculoskeletal diseases, which include OA, cost Americans \$65 billion.

Glucosamine and chondroitin are over-the-counter nutritional supplements, readily available to the public in supermarkets, department stores, and health food stores. Manufacturers claim that these substances may alleviate symptoms of arthritis and joint pain, yet, no clinical studies have been performed to prove or disprove these claims.

Both the Arthritis Foundation and the FDA have expressed concern regarding the lack of clinical research. Also, there is the additional problem (see the section titled "In Brief, What's Coming") regarding control over product purity. Anywhere from 33% to 50% of the Glucosamine / Chondroitin supplements available in the US do not contain the amount of ingredient listed on the bottle.

To help address this problem, and determine the effectiveness of Glucosamine / Chondroitin in a controlled, scientific environment, the NIH decided to initiate a clinical research study for the treatment of osteoarthritis of the knee. The NDB is one of the original 13 sites nationally that started this study in January 2001 which will continue until third quarter 2004.

If you would like to find out more about the GAIT study or where you can participate if you wish, please visit the GAIT study web site at www.nihgait.org and look under 'Sites'.

Infliximab (Remicade)
Safety Registry Participants –
don't forget to take your Infusion
Information sheet with you to your
next infusion appointment if you
have not already filled it out and
sent it back to us. Thanks, we
appreciate your help!!

2002 American College of Rheumatology Lecture Presentation Abstracts:

- 1). Low Rates of Serious Liver Toxicity to Leflumomide (LEF) and Methotrxate (MTX): A Longitudinal Surveillance Study of 14,997 LEF and MTX Exposures in . (Treatment)
- **2).** The Economic Consequences of Changes in Disease Activity, Functional Status, and Utility Measure in Patients with Rheumatoid Arthritis. (Economics)
- **3).** Lifetime Direct Medical Costs of Rheumatoid Arthritis. (Economics)

2002 American College of Rheumatology Poster Abstracts:

- 1). Work Disability in a National Sample of RA Patients (Economics)
- **2)**. Substantial, Clinically Important Decreases in Disease Severity and Work Disability are Associated with Increased Levels of Education in Patients with Rheumatic Diseases (Economics)
- **3).** Tracking an Epidemic Illness with Self-Report Questionnaires: Ross River Virus Epidemic Polyarthritis (Health Services)
- **4).** The Safety of Disease Modifying Anti Rheumatic Drugs and Biologic Therapy (DBT) in Rheumatoid Arthritis (Safety)
- **5).** Satisfaction and Preference for NSAIDs and COX-2 Specific Inhibitors among Patients with Rheumatoid Arthritis (Safety)
- **6).** The Measurement of Fatigue in Rheumatoid Arthritis (Clinical)
- 7). Toward an Epidemiology of NSAID and COX-2 Specific Inhibitor Efficacy Equivalence (Treatment)
- **8).** The Characteristics and Patterns of Analgesic use in Rheumatoid Arthritis (Treatment)
- **9).** Toward an Acceptable Definition of DMARD Failure and Abnormal Health Status in RA (Treatment)
- 10). The Epidemiology of GI Drugs Use Among Persons with RA, OA and Fibromyalgia (Treatment)
- **11).** Measurement of Infliximab Effectiveness in Clinical Practice (Treatment)

2002 American College of Rheumatology Poster Discussion Presentation Abstracts:

- 1). Toward a Definition and Method of Assessment of Treatment Failure and Treatment Effectiveness: The Case of Leflunomide versus Methotrexate. (Safety)
- 2). Safety Data from a Registry of Patients Receiving Infliximab Preliminary Report After 1 Year (Safety)

Three \$1,000 Awards to Arthritis Research Participants:

Return your research questionnaire within two weeks of receiving it and be eligible for one of three \$1,000 awards. The research data bank can best contribute to research when the mailed questionnaires are completed and returned as soon as possible. Anyone who completes the questionnaire within two weeks of receiving it will be eligible for the award – given as a token of our gratitude in help with arthritis research. The winners from the last questionnaire were Sharon Hanson of Derby, KS; Julianne Behling of Tulsa, OK; Barbara Monroe of Lee's Summit, MO. Congratulations to all!

The NDB staff donated more than \$200 and 600 lbs of food to local food banks to help make Christmas 2002 a little brighter for our neighbors.

News from the NDB Staff:

Some Changes to Expect –

We are trying harder than ever to make the questionnaire simple and straightforward without losing any critical information we need to continue research. Below are a few changes you can expect to see in 2003:

- 1). The questionnaire has been simplified! You will notice that the joint surgery section and the disability payment section have been significantly reduced.
- 2). The multi-dimensional fatigue section and the sleep section have both been removed from the questionnaire. We can get much of this information from other questions so we tried to reduce redundancy as much as possible.
- 3). In the July 2002 Newsletter we told you about a project called QALY that is designed to collect "health state" information from people with and without arthritis. This project has been delayed (we didn't get to in 2002), but we still intend to send out CD-ROMs in 2003 to collect data. If you have a computer and a little



time, we think you will find this project to be fun, and it will be very helpful in medical research.

In Brief, What's Coming...

Many of you have asked for information about new medications or treatments, and what other things are happening in arthritis research. So, we have added this section to the newsletter hoping these items will be of interest to you.

- The "chronic shortage of manufacturing capacity" for Enbrel is coming to an end. Those of you who have had trouble getting this powerful biologic agent should find getting the medication to be easier from now on.
- Abbott Laboratories filed for FDA approval in April 2002 of a new biologic drug Humira. They are expecting approval during the first quarter 2003. Humira is expected to compete with Enbrel, Remicade and Kineret for treatment of Rheumatoid Arthritis. Look for the new drug in the Spring of 2003.
- ↑ The American College of Rheumatology News issued a "Treatment Alert" in the November/December 2002 issue.

They report that Aristospan and Aristocort production has been temporarily suspended due to manufacturing problems at Fujisawa Healthcare, Inc. These are cortisone like products that are used for injections into joints. Plans are in place to relocate the manufacturing plant and resume production in late 2003.

An independent test of Glucosamine and Chondroitin was conducted by ConsumerLab.com to see if the products contained the labeled amounts of the claimed ingredients. These supplements are typically used to slow the progression of osteoarthritis and reduce pain. ConsumerLab.com reported that 1/3 of the products did not pass the test, and about 50% of the Glucosamine / Chondroitin combination products failed due to low levels of Chondroitin. Currently supplements do not fall under the FDA jurisdiction and are not regulated to FDA standards.

If you have any questions or would like additional information please contact us at 800-323-5871 or email at