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2006 Abstracts

**Twenty-Eighth Annual Meeting
of the American Society for
Bone and Mineral Research**

**Pennsylvania Convention Center
Philadelphia, Pennsylvania, USA
September 15-19, 2006**

JBMR



**PUBLISHED MONTHLY BY
THE AMERICAN SOCIETY FOR BONE AND MINERAL RESEARCH**

ASBMR 28th Annual Meeting Official Program

NOTE: All rooms are in the Pennsylvania Convention Center unless otherwise noted.

| Friday, September 15 | Saturday, September 16 | Sunday, September 17 | Monday, September 18 | Tuesday, September 19 |
|--|--|---|---|---|
| <p>9:25 a.m. – 9:30 a.m. Presentation of The Sevgi and Gideon Rodan IBMS Fellowship <i>Ballroom B</i></p> <p>9:30 a.m. – 12:00 p.m. ASBMR/IBMS Joint Symposium Fat and Bone <i>Ballroom B</i></p> <p>12:00 p.m. – 1:00 p.m. Meet-the-Professor Sessions <i>Rooms 104 - 107</i></p> <p>12:30 p.m. – 1:30 p.m. Clinical Roundtable/Case Conference <i>Ballroom B</i></p> <p>2:00 p.m. – 3:30 p.m. Symposium A (Basic): New Advances in Bone Evolutionary Biology <i>Ballroom A</i></p> <p>Symposium B (Clinical): Good, Good, Good Vibrations: Evidence for the Therapeutic Potential of Low-Magnitude, High Frequency Mechanical Signals <i>Ballroom B</i></p> <p>3:45 p.m. – 5:15 p.m. Symposium C (Basic): Osteoimmunology <i>Room 201ABC</i></p> <p>Symposium D (Clinical): Skeletal Development and Pediatric Bone Disease <i>Ballroom A</i></p> <p>Symposium E (Clinical): Absolute Fracture Risk: An Update <i>Ballroom B</i></p> <p>5:15 p.m. – 7:00 p.m. Welcome Reception & Plenary Poster Session - <i>Hall A</i></p> <p>5:15 p.m. – 7:00 p.m. Posters and Exhibit Open - <i>Hall A</i></p> | <p>7:00 a.m. – 8:00 a.m. New Investigator/New Member Breakfast <i>Room 103AB</i></p> <p>8:00 a.m. – 6:00 p.m. Posters Open - <i>Hall A</i></p> <p>8:00 a.m. – 8:10 a.m. Welcome & Announcements <i>Ballroom AB</i></p> <p>8:10 a.m. – 8:30 a.m. Presentation of ASBMR Awards: (8:10 a.m.) William F. Neuman Award (8:15 a.m.) Fuller Albright Award (8:20 a.m.) Gideon A. Rodan Excellence in Mentorship Award (8:25 a.m.) Shirley Hohl Service Award <i>Ballroom AB</i></p> <p>8:30 a.m. – 9:30 a.m. Gerald Aurbach Memorial Lecture (Elaine Fuchs, Ph.D.) <i>Ballroom AB</i></p> <p>9:30 a.m. – 4:30 p.m. Exhibits Open - <i>Hall A</i></p> <p>9:30 a.m. – 10:00 a.m. Coffee Break - <i>Hall A</i></p> <p>10:00 a.m. – 11:30 a.m. Concurrent Oral Sessions 1) Osteoblasts I - <i>Room 201ABC</i> 2) Peptide Calcitropic Hormones and Mineral Metabolism I - <i>Room 204C</i> 3) Steroid Hormones I - <i>Room 203AB</i> 4) Osteoporosis: Epidemiology I – <i>Ballroom B</i> 5) Osteoporosis: Pathophysiology I - <i>Ballroom A</i> 6) Other Disorders of Bone and Mineral Metabolism I - <i>Room 204AB</i></p> <p>Poster Session I - <i>Hall A</i> ODD: 11:30 a.m. – 1:00 p.m. EVEN: 1:00 p.m. – 2:30 p.m.</p> | <p>7:00 a.m. – 8:00 a.m. Advocacy Breakfast: Funding Cuts and the Politics of Science: The Future of NIH and Biomedical Research <i>Marriott: Grand Ballroom, Salon C</i></p> <p>7:00 a.m. – 8:00 a.m. ASBMR Minority Breakfast <i>Marriott: Grand Ballroom, Salon D</i></p> <p>8:00 a.m. – 9:30 a.m. Featured Basic Symposium: Osteoclast Signaling and Function - <i>Ballroom A</i></p> <p>8:00 a.m. – 9:30 a.m. Clinical Session: New Technology, Treatments and Trials for Osteoporosis - <i>Ballroom B</i></p> <p>8:00 a.m. – 6:00 p.m. Posters Open - <i>Hall A</i></p> <p>9:30 a.m. – 4:30 p.m. Exhibits Open - <i>Hall A</i></p> <p>9:30 a.m. – 10:00 a.m. Coffee Break- <i>Hall A</i></p> <p>10:00 a.m. – 11:30 a.m. Concurrent Oral Sessions 13) Osteoblasts II - <i>Ballroom A</i> 14) Osteoclasts I - <i>Room 204C</i> 15) Osteoporosis Treatment II - <i>Ballroom B</i> 16) Osteoporosis Pathophysiology II – <i>Room 201ABC</i> 17) Cancer and Bone I - <i>Room 204AB</i> 18) Bone Acquisition and Pediatric Bone Disease II - <i>Room 203AB</i></p> <p>11:30 a.m. – 12:30 p.m. NIH Realities and Strategies for the Future (Elias A. Zerhouni, NIH Director) <i>Room 203AB</i></p> <p>Poster Session II - <i>Hall A</i> ODD: 11:30 a.m. – 1:00 p.m. EVEN: 1:00 p.m. – 2:30 p.m.</p> <p>11:30 a.m. – 12:30 p.m. Meet-the-Professor Sessions <i>Rooms 104 - 107</i></p> | <p>6:00 a.m. – 7:00 a.m. ASNMR Fun Run/Walk <i>Buses depart from Philadelphia Marriott</i></p> <p>8:00 a.m. – 4:30 p.m. Posters Open - <i>Hall A</i></p> <p>8:00 a.m. – 8:05 a.m. Presentation of Frederic C. Bartter Award <i>Ballroom B</i></p> <p>8:05 a.m. – 9:35 a.m. Plenary Symposium: Vitamin D: From Bench to Bedside - <i>Ballroom B</i></p> <p>9:30 a.m. – 4:30 p.m. Exhibits Open - <i>Hall A</i></p> <p>9:35 a.m. – 10:00 a.m. Coffee Break - <i>Hall A</i></p> <p>10:00 a.m. – 11:30 a.m. Concurrent Oral Sessions 25) Osteoblasts IV - <i>Room 201ABC</i> 26) Osteoclasts II - <i>Room 204AB</i> 27) Osteoporosis Treatment III - <i>Ballroom B</i> 28) Other Disorders of Bone and Mineral Metabolism III - <i>Ballroom A</i> 29) Bone Acquisition and Pediatric Bone Disease III - <i>Room 203AB</i> 30) Mechanical Loading and Exercise II - <i>Room 204C</i></p> <p>Poster Session III - <i>Hall A</i> ODD: 11:30 a.m. – 1:00 p.m. EVEN: 1:00 p.m. – 2:30 p.m.</p> <p>11:30 a.m. – 12:30 p.m. Meet-the-Professor Sessions <i>Rooms 104 - 107</i></p> <p>12:30 p.m. – 1:30 p.m. Clinical Roundtable/Case Conference <i>Ballroom B</i></p> <p>12:30 p.m. – 2:00 p.m. Career Options for Scientists Workshop <i>Room 203AB</i></p> | <p>8:00 a.m. – 8:05 a.m. Presentation of Louis V. Avioli Memorial Founders Award <i>Ballroom B</i></p> <p>8:05 a.m. – 9:05 a.m. Louis V. Avioli Memorial Lecture (Henry M. Kronenberg, M.D.) <i>Ballroom B</i></p> <p>9:05 a.m. – 9:30 a.m. Coffee Break <i>Ballroom Foyer</i></p> <p>9:30 a.m. – 11:30 a.m. Concurrent Oral Sessions 41) Osteoblasts VI - <i>Room 201ABC</i> 42) Osteoclasts III - <i>Room 204C</i> 43) Osteoporosis Epidemiology IV - <i>Ballroom A</i> 44) Osteoporosis Treatment V - <i>Ballroom B</i> 45) Mechanical Loading and Exercise III - <i>Room 204AB</i> 46) Genetics of Bone and Mineral Disorders II - <i>Room 203AB</i></p> <p>11:30 a.m. Adjourn</p> |

| Saturday, September 16 (continued) | Sunday, September 17 (continued) | Monday, September 18 (continued) | |
|--|--|---|--|
| <p><u>11:30 a.m. – 12:30 p.m.</u> Meet-the-Professor Sessions <i>Rooms 104 - 107</i></p> <p><u>12:00 p.m. – 2:00 p.m.</u> Special Session for Allied Health Professionals - <i>Room 204AB</i></p> <p><u>12:30 p.m. – 1:30 p.m.</u> Clinical Roundtable/Case Conference <i>Ballroom B</i></p> <p><u>12:30 p.m. – 2:00 p.m.</u> Grant Writing Workshop <i>Room 103AB</i></p> <p><u>1:30 p.m. – 2:30 p.m.</u> Meet-the-Professor Sessions <i>Rooms 104 - 107</i></p> <p><u>2:30 p.m. – 4:00 p.m.</u> Concurrent Oral Sessions 7) Bone, Cartilage and Connective Tissue Matrix I - <i>Room 204AB</i> 8) Growth Factors and Cytokines I – <i>Room 201ABC</i> 9) Osteoporosis Treatment I - <i>Ballroom B</i> 10) Diagnostic Assessment of Osteoporosis and Other Disorders of Bone and Mineral Metabolism - <i>Ballroom A</i> 11) Genetics of Bone and Mineral Disorders I - <i>Room 204C</i> 12) Bone Acquisition and Pediatric Bone Disease I - <i>Room 203AB</i></p> <p><u>4:00 p.m. – 4:30 p.m.</u> Coffee Break -<i>Hall A</i></p> <p><u>4:30 p.m. – 6:00 p.m.</u> State-of-the-Art Lectures A (Basic): Cancer and Bone – Basic/Translational <i>Ballroom A</i></p> <p>State-of-the-Art Lectures B (Clinical): Estrogen After the WHI <i>Ballroom B</i></p> <p><u>6:00 p.m. – 7:00 p.m.</u> ASBMR Annual Business Meeting <i>Room 203AB</i></p> | <p><u>12:30 p.m. – 2:00 p.m.</u> Clinical Session: Disorders of Bone and Mineral Metabolism – Selected Topics <i>Ballroom B</i></p> <p><u>12:30 p.m. – 2:00 p.m.</u> Biotechniques Workshop on Bone Histomorphometry <i>Room 204AB</i></p> <p><u>1:30 p.m. – 2:30 p.m.</u> Meet-the-Professor Sessions <i>Rooms 104 - 107</i></p> <p><u>2:30 p.m. – 4:00 p.m.</u> Concurrent Oral Sessions 19) Osteoblasts III - <i>Room 201ABC</i> 20) Bone, Cartilage and Connective Tissue Matrix II - <i>Room 203AB</i> 21) Growth Factors and Cytokines II – <i>Room 204AB</i> 22) Osteoporosis Epidemiology II - <i>Ballroom B</i> 23) Other Disorders of Bone and Mineral Metabolism II – <i>Ballroom A</i> 24) Mechanical Loading and Exercise I – <i>Room 204C</i></p> <p><u>4:00 p.m. – 4:30 p.m.</u> Coffee Break - <i>Hall A</i></p> <p><u>4:30 p.m. – 6:00 p.m.</u> State-of-the-Art Lectures A (Basic): Recent Advances in Mineral Ion Homeostasis <i>Ballroom A</i></p> <p>State-of-the-Art Lectures B (Clinical): Selected Clinical Topics in Cancer and Bone <i>Ballroom B</i></p> <p><u>6:00 p.m. – 7:30 p.m.</u> The Women in Bone and Mineral Research Committee Event <i>Room 103AB</i></p> <p><u>8:00 p.m. – 12:00 a.m.</u> ASBMR Social Event <i>Franklin Institute</i></p> | <p><u>1:30 p.m. – 2:30 p.m.</u> Meet-the-Professor Sessions <i>Rooms 104 - 107</i></p> <p><u>2:30 p.m. – 4:00 p.m.</u> Concurrent Oral Sessions 31) Bone, Cartilage and Connective Tissue Matrix III - <i>Room 204AB</i> 32) Growth Factors and Cytokines III – <i>Room 201ABC</i> 33) Peptide Calcitropic Hormones and Mineral Metabolism II - <i>Room 204C</i> 34) Osteoporosis Epidemiology III – <i>Ballroom B</i> 35) Diagnostic Assessment of Osteoporosis and Other Disorders of Bone and Mineral Metabolism II - <i>Ballroom A</i></p> <p><u>4:00 p.m. – 4:30 p.m.</u> Coffee Break <i>Hall A</i></p> <p><u>4:30 p.m. – 6:00 p.m.</u> Concurrent Oral Sessions 36) Osteoblasts V - <i>Room 201ABC</i> 37) Steroid Hormones II - <i>Room 204AB</i> 38) Osteoporosis Treatment IV - <i>Ballroom B</i> 39) Osteoporosis Pathophysiology III - <i>Ballroom A</i> 40) Cancer and Bone II - <i>Room 204C</i></p> <p><u>6:00 p.m. – 7:30 p.m.</u> Foundations for Effective Negotiation Workshop - <i>Room 204C</i></p> | |

2006 Ancillary Program

NOTE: All rooms are in the Pennsylvania Convention Center unless otherwise noted.

| Wednesday, September 13 | Friday, September 15 | Saturday, September 16 | Sunday, September 17 | Monday, September 18 |
|--|---|--|---|--|
| THE INTERNATIONAL SOCIETY FOR CLINICAL DENSITOMETRY (ISCD)* | WORKING GROUPS | WORKING GROUPS | INDUSTRY-SUPPORTED SYMPOSIA (ISS) | ASBMR |
| <p>7:30 a.m. – 11:30 a.m. ISCD Bone Densitometry Course: Clinician and Technologist Courses - General Session <i>Loews: Regency Ballroom B</i></p> <p>12:30 p.m. – 5:30 p.m. ISCD Bone Densitometry Clinician Course <i>Loews: Regency Ballroom B</i></p> <p>12:30 p.m. – 5:30 p.m. ISCD Bone Densitometry Technologist Course <i>Loews: Regency Ballroom A</i></p> <p><i>*ISCD courses require separate fee and registration</i></p> | <p>7:00 pm – 9:00 pm Working Group on Rheumatic Diseases and Bone <i>Room 103C</i></p> <p>7:00 p.m. – 9:15 p.m. Nutrition and Bone Health Working Group <i>Room 203AB</i></p> <p>7:00 p.m. – 9:30 p.m. Muscle and Bone Working Group <i>Room 103A</i></p> <p>7:00 p.m. – 9:15 p.m. <i>In Vivo</i> Working Group <i>Room 204AB</i></p> <p>7:00 pm – 9:00 pm Working Group on Musculoskeletal Rehabilitation in Patients with Osteoporosis <i>Room 108B</i></p> <p>7:15 p.m. – 9:30 p.m. Working Group on Hormone-Receptor Interactions <i>Room 204C</i></p> | <p>7:00 p.m. – 9:15 p.m. Non-Invasive Assessment of Bone Microarchitecture Working Group <i>Room 204C</i></p> <p>7:00 p.m. – 10:00 p.m. Vitamin D Workshop Working Group <i>Room 103C</i></p> <p>7:00 p.m. – 10:00 p.m. Molecular Biology and Pathology of Bone Working Group <i>Room 204AB</i></p> <p>7:00 p.m. – 9:30 p.m. Working Group on Aging and the Human Skeleton <i>Room 108B</i></p> <p>7:00 p.m. – 10:00 p.m. Pediatric Bone and Mineral Working Group <i>Room 103A</i></p> | <p>CANCELED 6:00 a.m. – 8:00 a.m. Advances in Osteoporosis Treatment with Parathyroid Hormone</p> | <p>6:00 a.m. – 7:00 a.m. ASBMR Fun Run/Walk Supported by Novartis Pharmaceuticals <i>Buses depart from the Philadelphia Marriott</i></p> |
| | | | | WORKING GROUPS |
| | | | | <p>6:30 pm – 8:40 pm Physical Activity and Falls Working Group <i>Room 203AB</i></p> <p>7:00 p.m. – 9:45 p.m. Biochemical Markers of Bone Turnover Working Group <i>Room 204AB</i></p> <p>6:30 pm -10:00 pm Adult Bone and Mineral Working Group <i>Room 103A</i></p> |
| Thursday, September 14 | INDUSTRY-SUPPORTED SYMPOSIA (ISS) | INDUSTRY-SUPPORTED SYMPOSIA (ISS) | ASBMR | INDUSTRY-SUPPORTED SYMPOSIA (ISS) |
| <p>7:30 a.m. – 11:15 a.m. ISCD Bone Densitometry Clinician Course <i>Loews: Regency Ballroom A</i></p> <p>7:30 a.m. – 11:30 a.m. ISCD Bone Densitometry Technologist Course <i>Loews: Regency Ballroom C1 & C2</i></p> <p>11:45 a.m. – 2:00 p.m. ISCD Bone Densitometry Clinician Certification Exam <i>Loews: Regency Ballroom A</i></p> <p>12:30 p.m. – 1:45 p.m. ISCD Bone Densitometry Exam <i>Loews: Regency Ballroom C1 & C2</i></p> <p>12:30 p.m. – 6:15 p.m. ISCD Vertebral Fracture Assessment Course <i>Loews: Regency Ballroom B</i></p> | <p>7:00 p.m. – 9:30 p.m. Osteoporosis: Limitations of Diagnostic Criteria and Controversies in Conventional Treatment Sponsored by the Johns Hopkins University School of Medicine Supported by an educational grant from GlaxoSmithKline and Roche Laboratories <i>Marriott: Grand Ballroom A-F</i></p> <p>7:00 p.m. – 9:00 p.m. Bone Mineral Abnormalities and Long-Term Survival in Patients with Chronic Kidney Disease: Insights from New Data Sponsored by Montefiore Medical Center, the University Hospital and Academic Center for the Albert Einstein College of Medicine Supported by an educational grant from Abbott <i>Loews: Regency Ballroom</i></p> <p>7:00 p.m. – 10:00 p.m. Updates and Recent Developments on the Role of the Receptor Activator of Nuclear Factor KappaB (RANK)/RANK Ligand (RANKL)/Osteoprotegerin (OPG) Pathway in Pathologic Bone Loss and Associated Diseases Sponsored by The Health Science Center for CME Supported by an educational grant from Amgen, Inc. <i>Marriott: Grand Ballroom G-L</i></p> | <p>7:00 p.m. – 10:00 p.m. Modern Advances in the Understanding of Bone Structure Jointly sponsored by Postgraduate Institute for Medicine and Fission Communications Supported by an educational grant from Merck & Company, Inc. <i>Loews: Regency Ballroom</i></p> <p>7:00 p.m. – 10:00 p.m. Emerging Evidence in the Differences between Bisphosphonates Jointly sponsored by the Postgraduate Institute for Medicine and Photosound Communications, Inc Supported by an educational grant from The Alliance for Better Bone Health, a collaboration between Proctor & Gamble Pharmaceuticals and Aventis Pharmaceuticals, a member of the sanofi aventis Group <i>Marriott: Grand Ballroom E-L</i></p> | <p>8:00 p.m. - 12:00 a.m. ASBMR Social Event Supported in part by NPS Pharmaceuticals The Franklin Institute 222 North 20th Street Philadelphia, PA 19103 <i>Shuttle buses will be provided to and from the official ASBMR hotels</i></p> | <p>7:00 p.m. – 9:30 p.m. Seeds of a Revolution: Progress on Reinventing the Management of Metabolic Bone Disease Sponsored by Medical Education Resources, Inc. Supported by an educational grant from Novartis Pharmaceuticals Corporation <i>Marriott: Grand Ballroom G-L</i></p> |

Please note that the International Society for Clinical Densitometry (ISCD) Courses, the Industry-Supported Symposia (ISS), and the Working Groups are not part of the ASBMR Official Scientific Program. These meetings are held in conjunction with the ASBMR Annual Meeting. The Sponsor/Organizer of each meeting is responsible for the organization and scientific content of the educational activity. For the ISS, ACCME-accreditation is required and the programs must be in accordance with the Essential Areas and Policies of the ACCME as well as with FDA guidelines. However, ASBMR expects that all authors and presenters affiliated with the ASBMR 28th Annual Meeting and the 2006 Ancillary Program will provide informative and fully accurate content that reflects the highest level of scientific rigor and integrity. Please note the following definitions: "Supporter" refers to the supporting company

2006 SUPPORTERS

The ASBMR gratefully acknowledges the following companies for their support:

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2006 ABSTRACTS BOOK

*Supported by an educational grant from the Alliance for Better Bone Health
(Procter & Gamble Pharmaceuticals and sanofi-aventis U.S.)*

This *2006 Abstracts* book is distributed on-site at the Annual Meeting to all ASBMR members and non-member attendees. Non-member subscribers to *JBMR* will receive the *2006 Abstracts* book by mail. ASBMR members who do not attend the Annual Meeting will receive their copy of the *2006 Abstracts* book by mail following the meeting. The entire ASBMR Scientific Program (invited speaker sessions, lectures, and abstract-based oral and poster presentation information), as well as the 2006 Ancillary Program (Working Groups and Industry-Supported Symposia), are included in full detail in the *On-Site Program book* and on the ASBMR website at www.asbmr.org. **We encourage you to make use of the 2006 Abstracts On-line that is accessible via the ASBMR website at www.asbmr.org. A complimentary hard copy of the 2006 Abstracts book in PDF format will be available for download for all ASBMR members and pre-registered attendees via the ASBMR website as well.**

ASBMR ABSTRACTS ONLINE

Supported by an educational grant from Roche Laboratories Inc. and GlaxoSmithKline

The Abstracts Online program, which is accessible through the ASBMR website at www.asbmr.org, is an Internet-based search tool. The program allows the creation of a personalized itinerary for the ASBMR 28th Annual Meeting program and allows customized searches of abstracts.

ABSTRACTS-ON-CD-ROM

*Supported by an educational grant from the Alliance for Better Bone Health
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The Abstracts on CD-ROM is also a search tool which allows customized searches of the ASBMR abstracts. The CD-ROM will be included in the ASBMR Annual Meeting delegate bags.

AWARD PRESENTATIONS

The following ASBMR Awards will be presented immediately before the morning Plenary Symposia and Plenary Lectures in Ballroom B of the Pennsylvania Convention Center — the ASBMR Gideon A. Rodan Excellence in Mentorship Award, the Fuller Albright Award, the Louis V. Avioli Founders Award, the Frederic C. Bartter Award, the William F. Neuman Award, and the Shirley Hohl Service Award. Please refer to the schedule found in the inside cover of this book for award presentation times.

The International Bone and Mineral Society (IBMS) will also be presenting an award — the Sevgi and Gideon Rodan IBMS Fellowship — just prior to the Friday morning ASBMR-IBMS Joint Symposia on Fat and Bone in Ballroom B.

ASBMR VIRTUAL EXHIBIT HALL

The ASBMR Virtual Exhibit Hall (www.asbmr exhibits.com) showcases Exhibitors and their products, many of which are present at this year's ASBMR 28th Annual Meeting. Visitors to the ASBMR Virtual Exhibit Hall are able to learn more about an Exhibitor's products and services, easily contact them for further information, and enjoy an Exhibit Hall experience at their leisure year-round.

CYBER CAFÉ

Supported by Amgen, Inc.

The Cyber Café, located in the Exhibit Hall, has full Internet capability and enables attendees to search the Internet and check their email. The Cyber Café will be open during published Poster Hall hours.

NIH LOUNGE

If you are looking for another opportunity to ask U.S. National Institutes of Health and Center for Scientific Review staff about your grant proposal or idea, please plan to visit the Meet-the-NIH Lounge in Room 101A of the Pennsylvania Convention Center and get your questions answered. Program staff from the National Institute and Musculoskeletal and Skin Diseases (NIAMS), the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), the National Cancer Institute (NCI), the National Institute of Dental and Craniofacial Research (NIDCR), National Institute on Aging (NIA), Center for Scientific Review (CSR), National Institute of Child Health and Human Development (NICHD), and more will be on-hand, by appointment, to meet with you. Be sure to sign up for open time slots on-site.

Because 55% of osteoporotic fractures don't occur at the spine¹

Actonel offers fracture protection across the body:

- Actonel is the only therapy with proven vertebral fracture protection in just 1 year.^{2,3,4*}
- Actonel has proven nonvertebral fracture protection over 3 years.^{2,4**}

Nonvertebral fracture reduction based on a composite endpoint of the following sites: wrist, clavicle, humerus, leg, pelvis, and hip.



*p= 0.001 vs control. Two 3 year studies in 3684 postmenopausal women. All patients received 1000 mg/d calcium, and, some patients received up to 500 IU/d vitamin D. Vertebral fractures were confirmed radiographically; some were associated with symptoms.

**p=0.02 vs control. Three year study in 2458 postmenopausal women. All patients received 1000 mg/d calcium, and, some patients received up to 500 IU/d vitamin D. Nonvertebral fractures were reported as adverse events and all confirmed radiographically.

Please see brief summary of prescribing information for Actonel on reverse side.

Actonel is indicated for the treatment and prevention of osteoporosis in postmenopausal women.

Selected safety information for Actonel

In clinical trials, Actonel was generally well tolerated. Actonel is contraindicated in patients with hypocalcemia, known hypersensitivity to any component of this product, or inability to stand or sit upright for at least 30 minutes. Hypocalcemia and other disturbances of bone and mineral metabolism should be effectively treated before starting Actonel therapy. Actonel is not recommended for use in patients with severe renal impairment (creatinine clearance <30 mL/min).

Bisphosphonates may cause upper gastrointestinal disorders such as dysphagia, esophagitis, and esophageal or gastric ulcer. Patients should pay particular attention to the dosing instructions, as failure to take the drug according to instructions may compromise clinical benefits and may increase the risk of adverse events.

Among patients treated with bisphosphonates, there have been infrequent reports of severe and occasionally incapacitating bone, joint and/or muscle pain. Rare occurrences of osteonecrosis, primarily of the jaw (ONJ), have been reported in patients receiving bisphosphonates. Most ONJ cases have occurred in cancer patients undergoing dental procedures. In the majority of cases reported, patients had received intravenous bisphosphonate therapy.

In clinical trials, the overall incidence of adverse events with Actonel 5 mg daily was comparable to placebo. The most commonly reported adverse events regardless of causality were infection (primarily upper respiratory, placebo 29.7% vs Actonel 5 mg 29.9%), back pain (23.6% vs 26.1%), and arthralgia (21.1% vs 23.7%).

In a one-year clinical trial comparing Actonel 35 mg Once-a-Week and Actonel 5 mg daily, the overall incidence of adverse events with the 2 dosing regimens was similar. The most commonly reported adverse events regardless of causality were infection (Actonel 35 mg 20.6% vs Actonel 5 mg 19.0%), arthralgia (14.2% vs 11.5%), and constipation (12.2% vs 12.5%).


Actonel
(risedronate sodium tablets)
Focused on Fracture