

CHRISTOPHER M. DUMA M.D., FACS

Brain and Spine Surgeons of Orange County

3900 West Coast Highway Ste. 300

Newport Beach, CA 92663

Date of Birth: May 19, 1959

Office 949.642-6787

Fax 949.642-4833

EDUCATION AND TRAINING

Undergraduate

1977-1981	Colgate University Hamilton, New York	Bachelor of Arts - Neurosciences (Honors) 1981.
1981-1982	Cornell University, School of Medicine Department of Neuropharmacology New York, New York	Research Assistant Charles E. Inturrisi, PhD

Graduate

1982-1986	State University of New York at Stony Brook - School of Medicine	Doctor of Medicine - 1986
1985 (July-Sept.)	Memorial-Sloan Kettering Cancer Center, Department of Neurology Pain Service	Research Assistant Kathleen P. Foley, MD

Postgraduate

1986-1987	Georgetown University Hospital Washington, DC	Intern, General Surgery Robert Wallace, MD
1987-1991	Georgetown University Hospital Washington, DC	Resident, Neurosurgery Alfred J. Luessenhop,
MD		
1990 (July - Dec.)	Atkinson Morley's Hospital Wimbledon, England	Registrar, Neurosurgery David Uttley, MD
1991 (Jan-June)	Georgetown University Hospital Washington, DC	Chief Resident, Neurosurgery Alfred J. Luessenhop,
MD		
1991-1992	University of Pittsburgh, Neuro-	Fellow, Stereotactic
	Presbyterian-University Hospital Pittsburgh, Pennsylvania	surgery and Gamma Knife Radiosurgery L. Dade
Fellowship Lunsford, MD		
1992-1993 (June)	Georgetown University Hospital	Chief Resident, Neurosurgery

Martuza, MD

Washington, DC

Robert L.

LICENSURES

2005-Present DEA License, California #BD3641520
1993 to Present Medical License, California #G76797
2001 to Present Medical License, Nevada
1986-1993 Medical License, Washington, D.C.

CERTIFICATIONS

National Boards: Part I - 1984
 Part II - 1986
 Part III – 1987
May 2002 -Present Diplomate, American Board of Neurological Surgery
 #22017, expires December 31, 2012

PROFESSIONAL APPOINTMENTS

8/1997-Present Medical Director, Hoag/UCI Gamma Knife Program, Hoag Memorial
Hospital Presbyterian, Newport Beach, CA
2010-Present Private Practice 3900 PCH, Suite 300 Newport Beach, CA 92663
1997-2010 Private Practice 351 Hospital Road Ste. 401 Newport Beach, CA 92663
4/04-Present Assistant Clinical Professor, University of California, Irvine, School of
Medicine, Department of Neurosurgery.
4/04-Present Head, Division of Radiosurgery, University of California, Irvine, School of
Medicine, Department of Neurosurgery
11/03-Present Vice - Chairman, Department of Neurosurgery, Hoag Memorial Hospital
Presbyterian, Newport Beach, CA
11/01-11/03 Chairman, Department of Neurosurgery, Hoag Memorial Hospital
Presbyterian, Newport Beach, CA
1993-2/1998 Co-Director, Gamma Knife Radiosurgery, Good Samaritan Hospital, Los
Angeles, CA

MEMBERSHIPS

International Stereotactic Radiosurgery Society, 1990 to present
Congress of Neurological Surgeons, 2001 to present
American Association of Neurological Surgeons, 2001 to present

COMMITTEES

Member-at-Large, Medical Executive Committee, Memorial Hospital Presbyterian, 10/03 to present.

Member, Cancer Committee, Hoag Memorial Hospital Presbyterian, Newport Beach, California,
9/98 to present.

Member, Quality Assurance committee Hoag Memorial Hospital Presbyterian, Newport Beach,
California, 1998-2000

Member, OR committee, Hoag Memorial Hospital Presbyterian, Newport Beach, California, 11/01
to 6/03

Member, Board of Directors, Hoag Memorial Hospital Presbyterian 552 Club

Duma, C.

Curriculum Vitae, Revised 9/1/17

Chairman of the Board, DatCard Systems, Inc., Irvine, California, 2000 to present.

President, Foundation for Neurosciences, Stroke and Recovery, Newport Beach, CA, 10/04 to present

Member, Board of Directors, Neurosciences Institute, The Hospital of the Good Samaritan, December 1993 to February 1998

Member, Cancer Committee, The Hospital of the Good Samaritan, December 1993 to 1998

Member, "Gliadel" Wafer intratumor implant therapy for Glioblastoma Multiforme, RPR Advisory Committee, April, 1997 to present.

Member, Marketing Committee, Los Angeles Philharmonic, February, 1997 to 1999.

RESEARCH EXPERIENCE

1. Evaluation of Pain in Trigeminal Neuralgia Patients Following Gamma Knife Radiosurgery Treatment. *Principal Investigator closed 2015*
2. Intralesional Adoptive Cellular Therapy of Glioblastomas w/ Interleukin-2 Stimulated Autologous Lymphocytes. *Co-Principal Investigator, November/ December 2009*
3. Outcomes for Glioma Patients Undergoing Intracranial Treatment with Lymphokine Activated Killer Cells (LAK): Outcomes and Comparisons to Matched Controls. *Co-Principal Investigator, 2005*
4. Deep Brain Stimulation of the Subthalamic Nucleus for the Treatment of Parkinson's Disease. *Co-Principal Investigator, closed April 2002.*
5. A Retrospective Review of Gynecologic Patients with Metastatic Disease to the Brain Treated with Gamma-Knife Surgery. *Co-Principal Investigator, closed August 2005.*
6. NTI 0302: A Phase III Randomized, Double-Blind Study Comparing Human Corticotropin-Releasing Factor (hCRF) to Dexamethasone for Control of Symptoms Associated with Peritumoral Brain Edema in Patients with Primary Malignant Glioma. *Principal Investigator, December 2006.*
7. NTI 0303: A Phase III Randomized, Double-Blinded, Dexamethasone-Sparing Study Comparing Human Corticotropin-Releasing Factor (hCRF) To Placebo For Control Of Symptoms Associated With Peritumoral Brain Edema In Patients With Malignant Brain Tumor Who Require Chronic Administration Of High-Dose Dexamethasone. . *Principal Investigator, December 2006.*

8. NTI 0501: An Open-Label Extended Use Study of Human Corticotropin-Releasing Factor (hCRF) Intended for Patients Who Participate in the Dexamethasone-Sparing Trials NTI 0302 or NTI 0303. *Principal Investigator*, December 2006.
9. UCB Pharmaceuticals: A Retrospective Review of Tolerability and Efficacy of Anti-Epileptic Drugs in Patients Who Underwent Gamma Knife for Brain Tumor. *Sub-Investigator*, December 2006.
10. Northwest Biotherapeutics, Inc. Protocol 020221: A PHASE II CLINICAL TRIAL EVALUATING DCVax®-Brain, AUTOLOGOUS DENDRITIC CELLS PULSED WITH TUMOR LYSATE ANTIGEN FOR THE TREATMENT OF GLIOBLASTOMA MULTIFORME (GBM), *Principal Investigator*, February 2012-
11. Reclaim Deep Brain Stimulation Therapy for Obsessive Compulsive Disorder, Medtronic HUD Protocol # H050003 *Principal Investigator*

INVITED LECTURES

- | | |
|---------------------|--|
| Dec 4-6, 2017 | Christopher Duma, M.D. FACS, honorary speaker: Cours Pratique Francophone de Radionéurochirurgie, Marseilles, France
"Radiobiology" (in French), "Gamma Knife Leading Edge for Glioblastoma", "Radionecrosis: Diagnosis and Treatment", "Cavernous Sinus Meningiomas" |
| October 24, 2017 | Christopher Duma, M.D., FACS, Panelist: Fran Drescher's 2017 Health Summit, Dorothy Chandler Pavilion Los Angeles, CA |
| Sept 22-23 2017 | Christopher Duma, M.D. FACS, guest speaker: Pacific Neuroscience Symposium - "Leading Edge Radiosurgery & Vaccine Trials for Glioblastomas," - Loews Santa Monica Beach Hotel, Santa Monica CA |
| June 24, 2017 | Christopher Dum, M.D. FACS guest speaker: Deep Brain Stimulation Therapy and Q & A. - Parkinson's Disease Symposium & Medical Expo Hoag Hospital, Newport Beach, CA - Neuroscience Institute |
| June 15, 2017 | Christopher Duma, M.D., FACS guest speaker: Wellness Speaker Series Alzheimer's Disease, ALS, Multiple Sclerosis and Parkinson's Disease: "Are Stem Cells the Answer?" Shady Canyon Golf Club (Sycamore Room) Irvine, CA |
| May 28-June 1, 2017 | Christopher Duma, M.D. FACS guest speaker- debate- 13th Annual International Stereotactic Radiosurgery Society Congress - "Pro /Cons: Radiosurgery in high-grade gliomas: is the targeting of the T1 contrast enhancement wrong? Yes (CDuma) . IRSR 2017 Montreux, Switzerland |
| May 20, 2015 | Christopher Duma, M.D., FACS guest speaker: 6th Annual EMA Primary Care Medical Conference - Annenberg Center for Health Sciences at Eisenhower, Palm Desert, CA |
| March 15, 2017 | Christopher Duma, M.D. FACS Guest Speaker - "The Music Heals Project," Spirituality Conference - The Power of Spiritual |

Support in Health & Healing , Newport Beach - Raddisson Hotel
- Sponsored by Hoag Community Benefit

- May 15-19, 2016 Christopher Duma, MD guest speaker@ The 18th Annual International Leksell Gamma Knife Society Meeting - “ Pathophysiology of Gliomas Leading Edge Radiosurgery Emerging Approaches” -Amsterdam, NL 18th Annual Leksell Gamma Knife Society Meeting Amsterdam - Panel Debate- *Pathophysiology of Gliomas Leading Edge Radiosurgery Emerging Approaches* Martin van den Bent Erasmus MC Kanker Instituut (Rotterdam, the Netherlands)Christopher Duma Hoag Hospital (Newport Beach, US; Roger Stupp UniversitätsSpital Zürich (Zurich, Switzerland)
- May 3, 2016 Christopher Duma, MD guest speaker- TED Talk - “Leading Edge Pinpoint Radiation Technique on Glioblastoma.”
- March 1, 2016 Christopher Duma, MD - North County dinner talk, “Results Based on Modern Brain and Pituitary Surgery.” Anaheim, CA
- February 9, 2016 Christopher Duma, MD guest speaker @ South County dinner talk - Arroyo Trabuco Golf Club, CA
- September 18-21 , 2015 Christopher Duma, MD guest speaker @ The 13th International Symposium on Neural Transplantation and Repair(Intra13)Beijing International Convention Center, Beijing, China; [HTTP://intra13.csp.escience.cn](http://intra13.csp.escience.cn)
- May 20, 2015 Brain Tumor Support Group, 3rd Floor conference room, Hoag Hospital, Newport Beach
- March 20, 2015 Christopher Duma, MD guest speaker - 2nd Annual Parkinsons Disease Patients & Caregivers Symposium,
- August 22, 2014 Christopher Duma, MD guest speaker -USC lecture, Grand Rounds
- June 19, 2014 Parkinsons PD Basic Lecture, Hoag Hospital, Irvine, CA
- January 16, 2013 Christopher Duma, MD guest speaker @ Brain Tumor Support group - Neuro Conference Room, Hoag Hospital, Newport Beach
- September 11, 2012 Presentation of Infection Stats to QICB hospital board
- June 28, 2013 Christopher Duma, MD guest speaker @ Aliso Viejo Country Club, “Managing you Parkinsons disease w/ Dr. Duma & Dr. Martinez.”
- March 25-29 2012 16th Annual Leksell Gammaknife Meeting, Sydney Australia
- November 17-20, 2011 Society of Neurooncology, Hyatt Regency, Garden Grove
- November 16, 2011 Christopher Duma, MD Speaker- Brain Tumor Support " Modern Treatment For Brain Tumors" - Vaccines & Immunotherapy, Neuroscience Conf Room, Hoag Hospital- Newport Beach, CA
- July 14, 2011 Christopher Duma, MD guest speaker for Irvine support group for Parkinson's program.
- May 12-14, 2011 Christopher Duma, MD Speaker, “Gifford lecture at Browning, New York
- February 4, 2011 Christopher Duma ,MD Speaker “ Modern Brain Tumor Management Surigcal & GK speech,” Westin South Coast Plaza on Anton

in Santa Ana Ballroom

January 5, 2011 Christopher Duma, MD - Presentation at Center for New Medicine
October 4, 2010 Christopher Duma MD, Speaker “ GK Talk, Saddleback Hospital Grp
September 28, 2010 Christopher Duma MD, Speaker “Surgical treatment of pain management including motor cortex stimulation,” w/ Brian Scoggin @ Palican Hill
August 4, 2010 “Brain Aneurysm/ AVM Support Group talk,” w/ Chris McDuff
July 16, 2010 “Advances in Neurosciences Symposium,” Clift Hotel, San Francisco
June 2, 2010 Christopher Duma MD speaker. “Update - Brain Tumor management.” Ayres Hotel, Seal Beach
May 14, 2008 Christopher Duma, MD speaker: CME activity, leading edge talk “Update \ on Leading Edge Radiosurgery for Glioblastoma Multiforme.” UCIMC, Orange, CA
April 19, 2008 Christopher **Duma** MD. Speaker: Modern Management of Acoustic Neuromas. Acoustic Neuroma Association @ Hoag Hospital’s Radiation Oncology Library. Newport Beach, Ca.
April 17, 2008 Christopher Duma MD. Speaker: Club House for Parkinson CME with Janet Chance, Costa Mesa, Ca
March 25, 2008 Christopher **Duma**, MD. Assess OC Physician Advisory Group. Irvine, California.
Feb 21, 2008 Chris **Duma**. Speaker Brain Tumor Support Group at Hoag Hospital. Newport Beach, California.
Jan 29, 2008 Chris **Duma**, Speaker. Brain Tumor lecture Meeting. Seal Beach, California.
Sept 27, 2007 Chris **Duma**, Speaker. CME Talk- Advanced technique and brain Tumor Surgery. Orange County, California
Sept 26, 2007 Chris **Duma**, Intro to Robin Ellis, RN (Speaker). Brain Tumor Lecture Meeting. Ayres Hotel, Seal Beach, California.
July 31, 2007 Brain Tumor Educational Meeting. Seal Beach, California.
June 26, 2007 Chris **Duma**, Invited Speaker. Gamma-knife leading edge. ISRS, San Francisco, California.
June 21, 2007 Chris **Duma**, MD. Guest Speaker. Cancer Committee Meeting
June 13, 2007 Chris **Duma**, Keynote Speaker. Endowment Council Meeting. Hoag Conference Center, Newport Beach, California.
April 21, 2007 Chris **Duma**, Speaker. Parkinson’s Disease Meeting with Janet Reno
Feb 2-3, 2007 Leading Edge Proposal at RTOG Conference, Tampa, Florida.
Jan 30, 2007 “Understanding Brain Tumors- Signs, Symptoms and Diagnostic Tools”. North County Meeting, Ayres Hotel, Seal Beach, California.
Jan 19-22, 2007 Leading Edge Proposal at RTOG Conference, Miami, Florida.
Oct 9-11, 2006 Invited Speaker GK leading Edge. CNS, Chicago, Illinois.
May 19-28, 2006 Gamma-knife Users Group Meeting, Seoul, Korea.
Sept 1-16, 2005 Invited Lecturer, Gamma Knife. ISRS, Belgium, Brussels.
June 11, 2005 Christopher **Duma**, MD. Speaker. UCI Department of Neurosurgery Symposium on Vascular Malformations; Kusske Chair Annual Symposium. “Radiosurgery for Arteriovenous Malformations.” Irvine, California.
May 14, 2005 Christopher **Duma**, MD. Faculty, Texas Medical Association, Texas Neurosurgical Association Annual Symposium, “Radiosurgery for Trigeminal Neuralgia” Gaylord Convention Center, Grapevine, Texas.
May 13, 2005 Christopher **Duma**, MD. Faculty, Texas Medical Association, Texas Neurosurgical Association Annual Symposium, “GBM is a Local Disease, Rationale for Radiosurgery” Gaylord Convention Center, Grapevine, Texas.
April 21, 2005 Christopher **Duma**, MD. Faculty, Ayres Hotel, Laguna Hills, CA: “Brain Tumors: Signs, Symptoms and Imaging.” South Orange County Brain Tumor Support Group.

March 25, 2005 Christopher **Duma**, MD. Faculty, UC Irvine School of Medicine, Department of Neurosurgery Grand Rounds: "Glioblastoma Multiforme is a Local Disease" Irvine, California.

February 5, 2005 Christopher **Duma**, MD. Faculty, Conference Center, Hoag Memoria Hospital Presbyterian, Newport Beach, CA: The Modern Treatment of Trigeminal Neuralgia. "Radiosurgery for trigeminal neuralgia"

December 13, 2004 Christopher **Duma**, MD. Invited Speaker, Villa Valencia Assisted Living, Aliso Viejo, CA, "The Surgical Management of Parkinson's Disease"

December 9, 2004 Christopher **Duma**, MD. Invited Speaker, 552 Club Board Meeting, Hoag Memorial Hospital Presbyterian, Newport Beach, CA. "Update on Neurosciences at Hoag"

November 17, 2004 Christopher **Duma**, MD. Invited Speaker, South Coast Medical Center, Laguna Beach, CA, "Surgical Management of Parkinson's Disease"

November 6, 2004 Christopher **Duma**, MD. Invited Speaker, South Coast Medical Center, Laguna Beach, CA, "Surgical Management of Parkinson's Disease"

October 15, 2004 Christopher **Duma**, MD. Invited Speaker, Conference Center, Hoag Memorial Hospital Presbyterian, Newport Beach, CA: "Surgical Management of Parkinson's Disease"

May 1, 2004 Christopher **Duma**, MD. Faculty: Contemporary Management of Movement Disorders. AANS Practical San Francisco, California. "Radiosurgery for Movement Disorders"

October 31, 2003 Christopher **Duma**, MD. Invited speaker: Medical Grand Rounds, South Coast Medical Center, Laguna Beach, CA: "Modern Management of Brain Tumors."

October 19, 2003 Christopher **Duma**, MD. Faculty: Contemporary Management of Movement Disorders. CNS Practical Clinic, Denver, Colorado, "Radiosurgery for Movement Disorders"

October 20, 2003 Christopher **Duma**, MD. Faculty: Management of Acoustic Neuroma, Luncheon Seminar, Congress of Neurological Surgeons. "Gamma Knife radiosurgery for acoustic neuromas"

October 10, 2003 Christopher **Duma**, MD. Invited Lecturer: "Modern Stereotactic Radiosurgery: Tools, Tricks, and Complication Avoidance." UCI Medical Center, Neurosurgery Grand Rounds, Orange, CA

September 23, 2003 Christopher **Duma**, MD. Invited Speaker: "Contemporary Management of Movement Disorders". South Coast Medical Center, Laguna Beach, CA

May 10, 2003 Christopher **Duma**, MD. Invited Speaker, Cancer Center, Hoag Memorial Hospital Presbyterian: "Modern Brain Surgery", Newport Beach, CA

April 26, 2003 Christopher **Duma**, MD. Faculty: Contemporary Management of Movement Disorders. AANS Practical Clinic, San Diego, California. "Radiosurgery for Movement Disorders"

February 6, 2003 Christopher **Duma**, MD. Chairman and Faculty: Update on the Management of Brain Tumors, Long Beach Aquarium, Long Beach, CA. "Modern Surgical Management of Brain Tumors."

November 12, 2002 Christopher **Duma**, MD. Invited Speaker: "Contemporary Management of Movement Disorders". Cedars-Sinai Medical Center, Los Angeles, CA

October 18, 2001 Christopher **Duma**, MD. Invited Speaker, Cancer Center, Hoag Memorial Hospital Presbyterian: "Modern Brain Surgery", Newport Beach, CA

October 27, 2001 Christopher **Duma**, MD. Invited Speaker, Hoag Memorial Hospital Presbyterian, Essential Tremor Support Group Meeting: "The Surgical Management of Essential Tremor", Newport Beach, CA

October 1, 2001 Christopher **Duma**, MD. Invited Speaker, Medical Oncologists of Palm Springs. "Gamma Knife Radiosurgery – 11 years experience."

September 13, 2001 Christopher **Duma**, MD. Invited Speaker, "The War on Cancer", Hoag

Duma, C.

Curriculum Vitae, Revised 9/1/17

Memorial Hospital Presbyterian, "Gamma Knife Radiosurgery for Malignant Tumors." Newport Beach, CA

June 8, 2001 Christopher **Duma**, MD. Invited Speaker, ISRS (International Stereotactic Radiosurgical Society) 2001. Panelist and guest lecturer: "Leading edge Gamma Knife radiosurgery for Glioblastoma Multiforme" Las Vegas, NV

June 7, 2001 Christopher **Duma**, MD. Invited Speaker, ISRS (International Stereotactic Radiosurgical Society) 2001. Panelist and guest lecturer: "Gamma Knife radiosurgery for pediatric low grade astrocytomas" Las Vegas, NV

February 25, 1999 Christopher **Duma**, MD. Invited Speaker, ISRS (International Stereotactic Radiosurgical Society) 1999. Panelist and guest lecturer: "Gamma Knife radiosurgery for movement disorders" Sydney, Australia

February 25, 1999 Christopher **Duma**, MD. Invited Panelist, ISRS (International Stereotactic Radiosurgical Society) 1999. Panelist: "Functional Radiosurgery" Sydney, Australia

February 26, 1999 Christopher **Duma**, MD. Invited Speaker and Panelist, ISRS (International Stereotactic Radiosurgical Society) 1999. Panelist and guest lecturer: "Frontiers in Functional Radiosurgery" Breakfast Seminar, Sydney, Australia.

April 25, 1998 Christopher **Duma**, MD. Faculty, American Association of Neurological Surgeons (AANS) Annual Meeting, "Image-Guided Neurosurgery Workshop." Seattle, Washington.

June 24, 1997 Invited Speaker, Annual Gamma Knife Users Group Meeting. "Radiosurgical Pallidotomy: Counterpoint" Marseilles, France.

June 25, 1997 Invited Speaker, Annual Gamma Knife Users Group Meeting. "Radiosurgical management of cavernous sinus meningiomas, complications and side-effects" Marseilles, France.

June 28, 1997 Invited Speaker, ISRS (International Stereotactic Radiosurgical Society) 1997. "Functional Radiosurgery" Madrid, Spain.

April 25, 1997 Invited Speaker, Northridge Medical Center, Medical Grand Rounds. "Gamma Knife Stereotactic Radiosurgery, Indications and Results from a 6-Year Experience." Northridge, California

April 17, 1997 Faculty, Panelist, Breakfast Seminar, American Association of Neurological Surgeons Annual Meeting, "Current and Modern Management of Malignant Gliomas." Denver, Colorado

April 12, 1997 Faculty, American Association of Neurological Surgeons Annual Meeting, "Image-Guided Neurosurgery Workshop." Denver, Colorado

February 21, 1997 Invited Speaker, University of Puerto Rico, Neurosurgical Grand Rounds. "Gamma Knife Radiosurgery and Modern Management of Brain Tumors." San Juan, Puerto Rico

February 5, 1997 Panelist, Speaker, American Association of Neurological Surgeons - Section on Cerebrovascular Surgery. "Stereotactic Radiosurgical Treatment of Arteriovenous Malformations." Disneyland Hotel, Anaheim, California.

January 15, 1997 Invited Speaker, Guam Medical Board Grand Rounds. "Gamma Knife Radiosurgery and Modern Management of Brain Tumors." Guam, USA.

November 16, 1996 Invited Speaker, Parkinson's Support Group, Australia, "Update on Modern Surgical Management of Parkinson's Disease." Sydney, Australia

November 15, 1996 Invited Speaker, Neurology Grand Rounds, "Gamma Knife Radiosurgery and an Update on Modern Surgical Management of Parkinson's Disease." Sydney, Australia

November 2-3, 1996 Faculty, Advances in Clinical Neurosciences: "Gamma Knife Radiosurgery Update." "The Use of the Stereotactic Navigational Wand." Rancho Mirage, California

September 25, 1996 Invited speaker, San Diego Academy of Neurological

Duma, C.

Curriculum Vitae, Revised 9/1/17

Surgeons, "Modern neurosurgery using the Gamma Knife and the Elekta navigational Wand," Embassy Suites, Jolla

September 9, 1996 Invited speaker, Pacific Oncology Network, "Gamma knife stereotactic radiosurgery. Indications and results." Ocean Avenue Seafood Grill, Santa Monica, California

September 7, 1996 Invited speaker, Trigeminal Neuralgia Society of Orange County, "The Modern Management of Trigeminal Neuralgia: Glycerol Rhizotomy and the Gamma Knife." Columbia Hospital, Laguna Hills, California

August 10, 1996 Invited speaker, Trigeminal Neuralgia Society of Los Angeles, "The Modern Management of Trigeminal Neuralgia Glycerol Rhizotomy, and the Gamma Knife." Covina, California

July 25, 1996 Invited speaker, managed care seminar, "Gamma knife stereotactic radiosurgery. Indications and results," Talbert Medical Group, Riverside, California

June 18, 1996 Invited speaker, Hospital Grand Rounds, "Gamma knife stereotactic radiosurgery. Indications and results." Valley Presbyterian Hospital, Los Angeles, California

April 27, 1996 Faculty, American Association of Neurological Surgeons Annual Meeting, "Surgical Application of the ISG Wand in Neurosurgery." Minneapolis, Minnesota

January 29, 1996 Faculty, Course Moderator: "Image Guided Neurosurgery Workshop" Loews Hotel, Santa Monica, California

April 1, 1995 Invited speaker, Hospital Grand Rounds, "Gamma knife stereotactic radiosurgery. Indications and results." San Javier Hospital, Guadalajara, Mexico

March 7, 1996 Invited speaker, Hospital Grand Rounds, "Gamma knife stereotactic radiosurgery. Indications and results." St. John's Hospital, Santa Monica, California

March 4, 1996 Invited speaker, "Stereotactic neurosurgery and Gamma Knife Radiosurgery", Tumor Board, Glendale Memorial Hospital.

November 11, 1995 Invited speaker, managed care seminar, "Gamma knife stereotactic radiosurgery. Indications and results." Health Care Partners, Los Angeles, California

November 8, 1995 Faculty, Good Samaritan Hospital: "Everything you always wanted to know about Gamma Knife Radiosurgery." Los Angeles, California.

April 22, 1995 Faculty, American Association of Neurological Surgeons Annual Meeting, "Surgical Application of the ISG Wand in Neurosurgery." Orlando, Florida.

February 22, 1995 Invited speaker, Neurosurgery Grand Rounds: "Gamma knife stereotactic radiosurgery. Indications and results." UC Irvine Medical Center, Irvine, California

December 10-12, 1993 Faculty, Advances in Clinical Neurosciences: "Gamma Knife radiosurgery for metastases and primary gliomas at the Hospital of the Good Samaritan" and "Combination of open surgery and radiosurgery in the modern management difficult brain tumors." Rancho Mirage, California

December 4, 1993 Faculty; Stereotactic Neurosurgery in Practice, "Stereotactic neurosurgery for the private practitioner" Princess Hotel, Scottsdale, Arizona

November 19, 1993 Invited Speaker (in French), "Le gamma knife, principe, indications et résultats." Presented at Avancées

- Thérapeutiques en Neurochirurgie. Clinique des Cédres,
Cornebarrieu, France
- November 11, 1993 Neurosciences Grand Rounds: "Stereotactic neurosurgery:
the spectrum." The Hospital of the Good Samaritan, Los
Angeles, California
- October 12, 1993 Invited speaker, Oncology Grand Rounds: "Gamma knife
Stereotactic Radiosurgery. Indications and results." City of
Hope Cancer Center, Duarte, California
- September 27, 1993 Neurosciences Grand Rounds: "Gamma Knife radiosurgery,
the 6-year Pittsburgh experience." The Hospital of the Good
Samaritan, Los Angeles, California
- May 3, 1993 Neurosurgery Grand Rounds, "Modern Management of
Cavernous Sinus Meningiomas." National Institutes of
Health, Bethesda, Maryland.
- March 3, 1993 Combined Neurology/Neurosurgery Grand Rounds, "Modern
Management of Cavernous Sinus Meningiomas." Georgetown University
Hospital, Washington, DC
- February 22, 1993 Neurosurgery Grand Rounds, "Modern Management of
Cavernous Sinus Meningiomas." Brown University and the
Rhode Island Hospital, Providence, Rhode Island.
- January 30, 1993 Invited Lecturer, Neuraxis Neurosurgical Group, "Gamma
Knife Radiosurgery: The University of Pittsburgh
Experience". Orange, California.
- November 19-21, 1992 Invited Faculty; Stereotactic Neurosurgery in Practice,
Princess Hotel, Scottsdale, Arizona
- November 12, 1992 Invited Lecturer, Neurosurgery Grand Rounds, "Gamma Knife
Radiosurgery: The University of Pittsburgh Experience". University of
Texas, School of Medicine, Texas Medical Center, Houston, Texas.
- May 30, 1992 Invited Lecturer, General Surgery Grand Rounds, "Gamma
Knife Radiosurgery: The University of Pittsburgh
Experience". Georgetown University Hospital, Washington, DC
- April 12, 1992 Invited Faculty; Practical Clinic: "Stereotactic Radiosurgery
AANS Annual Meeting, Moscone Conference Center, San
Francisco, California
- February 21-22, 1992 Invited Lecturer, National Brain Tumor Foundation -
"Future advances in Neurosurgery - The Gamma Knife"
and "Workshop - Current treatments using the Gamma
Knife", San Francisco Hyatt, California
- November 16-19, 1991 Invited Faculty; Stereotactic Neurosurgery in Practice,
Princess Hotel, Scottsdale, Arizona
- October 27, 1991 Invited Faculty; Current Treatment of Trigeminal
Neuralgia, Marriott World Center, Orlando, Florida

PUBLICATIONS

1. Hahn EF, Lahita R, Kreek MJ, **Duma** CM, Inturrisi CE: Naloxone radioimmunoassay; an improved antiserum. *J. Pharm. Pharmacol.* **35**:833-836, 1983
2. Portenoy RK, **Duma** CM, Foley KM: Acute herpetic and post-herpetic neuralgia: Clinical review and current management. *Annals of Neurology.* **20**(6):651-664, 1986
3. Johnson DJ, **Duma** CD, Sivit C: The role for immediate operative intervention in severely head-injured children with Glasgow Coma Score of 3. *Neurosurgery* **30**(3):320-324, 1992
4. Dubois M, Caputy A, MacCosbe P, Lea D, **Duma**, CM: Cerebral blood flow measurements during blood pressure control with intravenous labetalol after craniotomy. *J Neurosurg Anesth* 1992 (In press)
5. Flickinger JC, Lunsford, LD, Kondziolka D, **Duma** CM, Maitz A, Kirkwood JM: Radiosurgery and brain metastases with and without fractionated whole brain radiotherapy. (Abstract) Published in: The American Radium Society. Proceedings of the 74th Annual Meeting, Orlando Florida, 1992
6. **Duma** CM, Lunsford LD, Kondziolka D, Bissonette DJ, Somaza S and Flickinger JC: Radiosurgery for vascular malformations of the brainstem. (Abstract) Published in: *Acta Neurochirurgica*:**117**, Fasc. 1-2, 1992.
7. **Duma** CM, Lunsford LD: Percutaneous retrogasserian glycerol rhizotomy: A ten-year experience. (Abstract) Published in: *Acta Neurochirurgica*:**117**, Fasc. 1-2, 1992.
8. Kondziolka D, **Duma** CM and Lunsford LD: Stereotactic management of non-AIDS-related brain abscesses: Diagnosis and treatment. (Abstract) Published in: *Acta Neurochirurgica*:**117**, Fasc. 1-2, 1992.
9. **Duma** CM, Lunsford LD, Kondziolka D, Bissonette DJ, Somaza S and Flickinger JC: Radiosurgery for vascular malformations of the brainstem. (In press, *ACTA Neurochirurgica Suppl.* **58**)
10. **Duma** CM, Lunsford LD, Kondziolka D, Harsh IV GR, Maitz AH, Bissonette DJ, Flickinger JC: Stereotactic radiosurgery of cavernous sinus meningiomas as an addition or alternative to microsurgery. *Neurosurgery* **32**(5): 699-705, 1993
11. Flickinger JC, Lunsford LD, Linskey ME, **Duma** CM and Kondziolka D: Gamma knife radiosurgery for acoustic tumors: Multivariate analysis of four year results. (In press:*Radiotherapy and Oncology*.)
12. Tishler RB, Loeffler JS, Lunsford LD, **Duma** CM, Alexander III, E and Flickinger JC: Tolerance of cranial nerves of the cavernous sinus to radiosurgery: The joint center for radiation therapy and University of Pittsburgh experience. (In press, *Intl J Rad Onc Biol Phys*, 1993)
13. Kondziolka D, **Duma** ChM and Lunsford LD: Factors that enhance the likelihood of successful stereotactic treatment of brain abscesses. *Acta Neurochirurgica*:**127**:85-90,1994
14. Kondziolka DG, Lunsford, LD, Flickinger, JC, Young, RF, Vermeulen, S, **Duma** CD et al: Stereotactic radiosurgery for trigeminal neuralgia: a multiinstitutional study using the gamma unit. *J. Neurosurgery*:**84**:940-945, 1996

Duma, C.

Curriculum Vitae, Revised 9/1/17

15. Kopyov OV, Jacques D, Lieberman A, **Duma** CM and Rogers RL: Clinical study of fetal mesencephalic intracerebral transplants for the treatment of Parkinson's Disease. *Cell Transplantation*: **5**(2):327-337,1996
16. **Duma** CM, Jacques DB, Mark RJ, et al: Gamma Knife stereotactic thalamotomy for Parkinson's tremor: A 5-year experience. *Neurosurg Focus* **2**(3):Article 12, 1997
17. Kopyov OV, Jacques D, Lieberman A, **Duma** CM and Rogers RL: Microelectrode-guided medial posteroventral radiofrequency pallidotomy for Parkinson's disease. *Journal of Neurosurgery* :**87**:52-59, 1997
18. Kopyov OV, Kurth MC, Jacques S, **Duma** CM, Eagle KS: Safety of Intrastriatal Neurotransplantation for Huntington's Disease patients. Submitted for publication, *Experimental Neurology*, 1997.
19. **Duma** CM, Jacques DB, Mark RJ, et al: Gamma Knife stereotactic thalamotomy for Parkinson's tremor: A 5-year experience. *Neurosurg Focus* **2**(3):Article 12, 1997
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 37. **Duma**, CM: Injection of Autologous Adipose-Derived Stromal Vascular Fraction (ADSVF) into the Human Brain Ventricular System for Neurodegenerative Disorders: 2-year Results of a Phase 1 Study in 20 Patients. Submitted to: *International Society for Cellular Therapy Regional Meeting, Memphis, TN.Sept. 30th - Oct.2nd 2016*

38. **Duma, CM, et al:** Upfront boost Gamma Knife “leading-edge” radiosurgery to FLAIR MRI- defined tumor migration pathways in 174 patients with glioblastoma multiforme: a 15- year assessment of a novel therapy
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BOOK CHAPTERS

1. **Duma** CM, Kondziolka D, Lunsford LD: Image-guided stereotactic management of non-AIDS-related cerebral infection. In: Haines SJ and Hall WA (eds.), *Infections in Neurological Surgery. Neurosurgical Clinics of North America*, Philadelphia, Pennsylvania, WB Saunders, Co., April 1991
2. Young RF, Jacques DB, **Duma** CM, Rand RW, et al: Gamma Knife Radiosurgery for Treatment of Multiple Brain Metastases. In: Kondziolka D (ed): *Radiosurgery 1995*, Basel, Karger, 1996. Volume I pp. 92-101.
3. **Duma** CM, Jacques DB, Kopyov O, Mark RJ, Copcutt B, Gembus M, Farokhi HK: Functional Radiosurgery. In: Alexander, III E., and Maciunas, R. J. (eds.), *Advanced Neurosurgical Navigation*, Thieme Medical Publishers, Inc. New York, 1999, pp. 519-527
4. **Duma** CM, Jacques DB, Kopyov O, Mark RJ, Copcutt B, Farokhi HK: Gamma Knife radiosurgery for the treatment of movement disorders. In: Lunsford LD (ed.), *Gamma Knife Brain Surgery. Prog Neurol Surg* Basil, Karger, 1998, vol. 14, pp 195-211

5. **Duma** CM, Kondziolka D, Lunsford LD: Gamma Knife Radiosurgery for Paraellar Meningiomas: Results of a 10-year experience. In Shmidek (ed) *Schmidek and Sweet Operative Neurosurgical Techniques*, 4th ed. W.B. Saunders, New York, NY, 2000
6. **Duma** CM, Shea WM, Tassin J, Kondziolka D, Lunsford LD: Gamma Knife Radiosurgery for Meningiomas of the Convexity and Cavernous Sinus. In: Sinfield S and Rosseau GL (eds) *Meningiomas: Contemporary Treatment, Seminars in Neurosurgery*, Thieme Medical Publishers, Inc. New York, NY, 2003, vol 14, number 3, pp 267-277.
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8. **Duma** CM, Shea WM, Jacques DB, Kopyov O, Functional Radiosurgery. In: *Youmans: Neurological Surgery*. HR Winn (ed.) Saunders/Elsevier, New York, NY, 2004. pp. 4087-4094.

FREE PAPERS

1. **Duma** CM, Johnson DJ: Cortical ischemic hypersensitivity in a patient with sickle cell trait and elevated intracranial pressure. Presented at the Congress of Neurological Surgeons Meeting, Orlando, Florida, October, 1991
2. Flickinger JC, Lunsford LD, Linskey ME, Bissonette DJ, **Duma** CM, Kondziolka D: Radiosurgery for acoustic nerve sheath tumors with the Gamma Knife: Four year experience. Presented at the North American Skull Base Society Annual Meeting, Acapulco, Mexico, February, 1992
3. **Duma** CM, Lunsford LD, Kondziolka D, Bissonette DJ, Somaza S and Flickinger JC: Radiosurgery for vascular malformations of the brainstem. Presented at the European Society for Stereotactic and Functional Neurosurgery, 10th Congress. Stockholm, Sweden, September 1992.
4. **Duma** CM, Lunsford LD: Percutaneous retrogasserian glycerol rhizotomy: A ten-year experience. Presented at the European Society for Stereotactic and Functional Neurosurgery 10th Congress. Stockholm, Sweden, September 1992.
5. Kondziolka D, **Duma** CM and Lunsford LD: Stereotactic management of non-AIDS-related brain abscesses: Diagnosis and treatment. Presented at the European Society for Stereotactic and Functional Neurosurgery 10th Congress. Stockholm, Sweden, September 1992.
6. **Duma** CM, Kondziolka D and Lunsford: Image-guided stereotactic management of non-AIDS-related cerebral abscesses. Presented at the Congress of Neurological Surgeons Annual Meeting, Washington, DC, November, 1992

7. **Duma** CM, Lunsford LD, Flickinger JC, Bissonette DJ and Kondziolka D: The response of residual cavernous sinus meningiomas to stereotactic radiosurgery. Presented at the Congress of Neurological Surgeons Annual Meeting, Washington, DC, November, 1992
8. **Duma** CM, Jacques DB, Mark RJ, Copcutt B: Inadvertent hand-crushing injury during gamma knife treatment. Annual Gamma Knife User's Group Meeting. Marseilles, France. June, 1997
9. **Duma** CM, Johnson DJ, Sivit C: Is there a role for immediate operative intervention in all severely head-injured children? Presented at the Pediatric Section Meeting of the AANS. Washington, DC. November 29, 1989
10. **Duma** CM, Dubois M, Caputy A, MacCosbe P, Lea D: Intravenous labetalol for the treatment of elevated blood pressure following craniotomy: Cerebral blood flow and systemic hemodynamic effects. Presented at the Southern Neurosurgical Society Annual Meeting, Key West, Florida, April 1990
11. **Duma** CM, Lunsford LD, Flickinger JC, Bissonette DJ, Kondziolka D: Gamma Knife stereotactic radiosurgery as primary or adjunctive treatment for parasellar meningiomas. Presented at the North American Skull Base Society Annual Meeting, Acapulco, Mexico, February, 1992
12. **Duma** CM, Lunsford LD, Kondziolka D, Bissonette DJ, Somaza S and Flickinger JC: Radiosurgery for vascular malformations of the brainstem. Presented at the 10th Congress of the European Society for Stereotactic and Functional Neurosurgery Annual Meeting, Stockholm, Sweden, September 3, 1992.
13. Tishler RB, **Duma** CM, Loeffler JS, Lunsford LD, Alexander III E, Flickinger JC: Cranial neuropathies following radiosurgery for cavernous sinus lesions: Joint Center for Radiation Therapy and University of Pittsburgh experience. Presented at the American Society for Therapeutic and Radiation Oncology (ASTRO) Annual Meeting, San Diego, California, November, 1992.
14. **Duma**, CM: Gamma Knife update. 2nd Annual Neurosciences Update. Good Samaritan Hospital. Rancho Mirage, California. November, 1994
15. **Duma**, CM, Jacques, DJ: Gamma Knife Radiosurgical Thalamotomy for Parkinson's tremor. Presented at the Annual Congress of Neurological Surgeons Meeting, San Francisco, California. October 18, 1995.
16. **Duma**, CM, Jacques DJ: Combined Gamma Knife Radiosurgery Boost and Immunotherapy with complete clinical and radiographic remission in a patient with Glioblastoma Multiforme. Presented at the Western Neurosurgical Society annual meeting. Portland, Oregon. September 12, 1995.
17. **Duma**, CM, Jacques DB, Kopyov OV: The case for the obsolescence of craniotomy for solitary and multiple brain metastases. Presented at the Annual Leksell Gamma Knife Users Group meeting, Manele Bay Hotel, Lanai, Hawaii. November 13, 1995.
18. **Duma**, CM, Jacques DB, Kopyov OV: Poor concordance of PET and Thallium imaging in differentiating tumor growth from radionecrosis after high-dose single-fraction radiosurgery. Presented at the Annual Leksell Gamma Knife Users Group meeting, Manele Bay Hotel, Lanai, Hawaii. November 13, 1995.

19. **Duma**, CM, Jacques DB, Kopyov OV, Mark RJ, Copcutt B: Gamma Knife thalamotomy for Parkinson's tremor: a 5-year experience. Presented at the American Society for Therapeutic and Radiation Oncology (ASTRO) Annual Meeting, Los Angeles, California. October 29, 1996.
20. **Duma**, CM: Modern Uses and indications for Gamma Knife radiosurgery. 3rd Annual Neurosciences Update. Good Samaritan Hospital. Rancho Mirage, California. November, 1996
21. **Duma**, CM: Safer brain surgery through use of wand and brain mapping. 3rd Annual Neurosciences Update. Good Samaritan Hospital. Rancho Mirage, California. November, 1996
22. **Duma**, CM, Jacques DB, Kopyov OV, Mark RJ, Copcutt B: Gamma Knife radiosurgery for benign meningiomas: a five-year follow-up. Presented at the American Society for Therapeutic and Radiation Oncology (ASTRO) Annual Meeting, Los Angeles, California. October 29, 1996.
23. Mark RJ, **Duma** CM, Jacques DB, et al: Intractable trigeminal neuralgia: a single institution experience in 26 patients treated with stereotactic Gamma Knife Radiosurgery. Presented at the American Society for Therapeutic and Radiation Oncology (ASTRO) Annual Meeting, Los Angeles, California. October 29, 1996.
24. Philpott LM, Lee AJ, Jacques DB, **Duma** CM, et al: Neuropsychological functioning following bilateral fetal lateral ganglionic eminence transplantation in Huntington's Disease. American Society for Neural Transplantation, Third Annual Conference, April 25-27, 1996
25. Kopyov OV, Jacques DB, Lieberman A, **Duma** CM et al: Outcome of fetal mesencephalic grafts in Parkinson's patients as a function of the volume of grafted tissue. The American Society for Neural Transplantation, April 25-27, 1996
26. Kopyov OV, Jacques DB, **Duma** CM, Lieberman A. Improvement in parkinsonian symptoms following intracerebral fetal mesencephalic graft is directly related to the volume of transplanted tissue. The American Association of Neurological Surgeons, April 1996, Minneapolis, Minnesota.
27. Kurth MC, Kopyov O, **Duma** C, Jacques DB: Six month follow-up of motor function after fetal transplantation in a patients with Huntington's Disease. The American Society for Neural Transplantation, April 25, 1996, Clearwater, Florida.
28. Kopyov OV, Jacques S, Kurth M, Philpott L, Lee A, Patterson M, **Duma** C, Kogosov A, Lieberman A and Eagle KS: Neurotransplantation of fetal lateral ganglionic eminence tissue in three patients with Huntington's Disease. Society for Neuroscience, November 16, 1996, Washington, DC.
29. Kopyov OV, Kurth MC, Jacques DB, Eagle KS, **Duma** CM: Early postoperative improvement in 7 Huntington's Disease patients following transplantation of fetal lateral ganglionic eminence. The 6th International Neural Transplantation Meeting, February 15, 1997, Sand Diego, California.
30. Kopyov OV, Jacques DB, **Duma** CM, Lieberman A, Eagle KS: Complications of fetal tissue transplantation in 55 Parkinson's disease patients. International Symposium on Parkinson's Disease, March 24, 1997, London, England.

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31. Kurth MC, Kopyov OV, Jacques DB, Caviness JN, **Duma** CM, Eagle S, Lieberman A: Safety of Fetal Tissue Transplantation for Huntington's Disease. American Academy of Neurology, April 12, 1997, Boston, Massachusetts.
32. Jacques DB, Kopyov OV, **Duma** CM, Lieberman A: Neurotransplantation in three Huntington's patients - 2-year follow-up. Western Neurosurgical Meeting, Ojai, California, September 20, 1997
33. **Duma** CM, Jacques DB, Mark RJ, Copcutt B: Gamma Knife management of very large volume gliomas: Treating the leading edge of tumor migration pathways. Annual Gamma Knife User's Group Meeting. Marseilles, France. June, 1997
34. **Duma** CM, Jacques DB, Mark RJ, Copcutt B: Gamma Knife radiosurgery for cavernous sinus meningiomas: 10-year follow-up. Plenary session, AANS (American Association of Neurologic Surgeons) annual meeting. Seattle, Washington. April 1998
35. **Duma** CM, Shea WM, Tassin J, Mackintosh R, Plunkett M: Gamma knife radiosurgery for pediatric low-grade astrocytomas. Gamma Knife User's Group Meeting, Lake Tahoe, April 2000
36. **Duma** CM, Shea WM, Tassin J, Mackintosh R, Plunkett M: Leading edge gamma knife radiosurgery for glioblastoma multiforme. International Stereotactic Radiosurgery Society annual meeting, Las Vegas, Nevada, June 2001
37. **Duma** CM, Brant-Zawadzki M, Shea WM, Tassin J, Mackintosh R, Plunkett M, Sharp S: The role of MRI and proton MRS in directing "leading edge" boost gamma knife radiosurgery for recurrent glioblastoma multiforme. Gamma Knife User's Group Meeting, Vienna, Austria, May 2004.
38. **Duma** CM, Shea WM, Tassin J, Mackintosh R, Plunkett M, Thomas K: Metastatic lung cancer to the brain: Indication for aggressive therapy in patients with no other distant metastases. Gamma Knife User's Group Meeting, Vienna, Austria, May 2004.
39. **Duma** CM, Shea WM, Tassin J, Goebel R, Mackintosh R, Plunkett M, Thomas K: Are we overtreating brain metastases? An analysis of patients expiring within 3 months of radiosurgery. Gamma Knife User's Group Meeting, Vienna, Austria, May 2004.
40. Christopher Duma, MD, FACS, Mark Berman, MD, FACS, Elliot Lander, MD, FACS S11-017: The First United States Experience with Intraventricular SVF for Neurodegenerative disorders: First year results in 18 patients. RE-STEM BIOTECH, CHINA September 18th-21st 2015
41. **Duma CM.**, et al : 18th Annual Leksell Gamma Knife Society Meeting
Amsterdam - May 15-19, 2016
Presentation- Up-front "Leading Edge" Gamma knife radiosurgery to tumor migration pathways in 170 patients with glioblastoma multiforme: a novel adjunctive therapy
Christopher Duma Hoag Hospital (Newport Beach, USA)

MEDIA

December 2016 : CBSLA/ KCAL9 NEWS - Removing a brain tumor that caused seizures- Dr. Duma discusses a patient success story where he removed a tumor that causes uncontrollable seizures.

TED TALK :

March 3, 2015 – Interview w/ Newport Indiew/ Mr. Simons

February 12, 2014 – ABC interview – Music Heals Project & Dufaults dance – Dr. Duma Home , Newport Beach, CA

October 23, 2014- Channel 6 TV show interview - Music Heals – Laguna Woods, CA

October 2, 2014- Channel 6 TV interview – Music Heals – Laguna Woods, CA

March 4, 2014 – KTLA interview @ Dr. Duma’s office w/ office w/ Kimberley Cornell (series on John Eggers) condition, outlook and future

KOCE Segment HBO - aired 5-6 pm 1/25/12

ABC interview, “ Parkinsons,” Aired

KOCE- Discussion on Pituitary Tumors November 24, 2010

KCBS TV Channel 2 News, “Gamma Knife Radiosurgery.” Aired 11 PM and 6 PM, 1/13/99.

KCBS TV Channel 2 News, “Gamma Knife Radiosurgery.” Aired 6 PM, 4/15/99.

OCN TV News, “Surgery without a scalpel.” 10 PM News. Aired 2/98.

July 6, 1997 - Orange County Register: “Chance of Cure Better than None”, By Michelle Nicolosi.

Channel 4 - EXTRA: “The Healing Helmet.” Expose on Gamma Knife radiosurgery with interview.

March, 1997 - Interview, live broadcast, KCOP Channel 13 - subject: the status of Elizabeth Taylor's post-operative seizures.

March, 1997 - LA Times, quoted in article about Elizabeth Taylor's brain tumor.

March, 1997 - Interview, taped broadcast, KCOP Channel 13 - subject: Elizabeth Taylor's brain tumor.

November 15, 1996 - Interview, Channel 7, Sydney, Australia television station for a feature called "Modern Treatments of Parkinson's

Disease."

May 19, 1996 - The Daily Breeze article "A New Ray" feature, and described in detail the benefits of Gamma Knife surgery.

February 1996-Interview by KCBS Los Angeles on "The Making of Chicago Hope."

December 1995 - KCOP Los Angeles interview about Gamma Knife surgery.

November 1995 - Interview by KNBC Los Angeles about Gamma Knife treatment on a nine-year-old with a residual brain tumor.

November 1995 - KNBC Los Angeles interview for a special on Parkinson's disease.

October 1995 - KCOP Los Angeles interview in "Shot at Life," a story about his brain tumor patient who sold his baseball memorabilia collection in order to have brain surgery.

May 10, 1995 - KCBS Los Angeles interview about Good Samaritan's Gamma Knife.

September 6, 1994 - Good Morning America interview at the Neurosciences Institute at Good Samaritan Hospital about its fetal neurotransplantation procedure.

Instructional videotape: "Thalamotomy for Parkinsonism" **Duma** CM and Lunsford LD, Presbyterian-University Hospital, Pittsburgh, Pennsylvania, 1992

Audio-Digest Physician Tape Series: "New Techniques in Neurosurgery: The Gamma Knife - An Overview." and "Gamma Knife Uses in Brain Tumor Disease: Hope for the Future." National Brain Tumor Foundation Annual Meeting, San Francisco, California, February 21-22, 1992.

Interview: "Gamma Knife Zaps Tumors that Scalpels Can't Reach." The San Francisco Chronicle, February 10, 1992.

1991 - Instructional videotape: "Percutaneous Retrogasserian Glycerol Rhizotomy" by Dr. **Duma** and L.D. Lunsford, MD. from Presbyterian-University Hospital, Pittsburgh.

November 16, 1989 - CBS' 48 Hours interview for a segment on a Children's Hospital trauma patient.

AWARDS/ HONORS

2018 - OCMA Top Doctors

2017 - Super Doctors

2017-2018 Marquis Who's Who in America

Duma, C.

Curriculum Vitae, Revised 9/1/17

2017- OCMA, TOP DOCTORS
2016- OCMA, TOP DOCTORS
2015- OCMA, TOP DOCTORS
2014- OCMA, TOP DOCTORS
2013- OCMA, Top Doctors
2012- OCMA, Top Doctors
2011- OCMA, Top Doctors
2010- OCMA, Top Doctors
2009- OCMA, Top Doctors
2008 - OCMA, Top Doctors
2008 - Consumer Research Council of America, America's Top Surgeons
2007- TOP DOCTORS, AMERICA'S TOP SURGEONS
2007 - America's Top Surgeons Consumer's Research Council of America