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the 30<sup>th</sup> Annual Spring Meeting of  
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PROGRAM OF THE 30<sup>th</sup> ANNUAL SPRING MEETING OF  
THE KOREAN NEUROSURGICAL SOCIETY  
APRIL 26-28, 2012

# 대한신경외과학회

## The Korean Neurosurgical Society

대한신경외과학회(영문표기: The Korean Neurosurgical Society)는 대한민국 의료법에 의거하여 설립된 유일한 신경외과 학술단체로서 신경외과학 발전을 위한 부단한 노력, 적절하고도 현신적 의술을 실천할 수 있는 신경외과 전문의 양성 및 국제적 학문교류를 통하여 국민건강 증진에 기여한다. 대한신경외과학회는 현실적으로 가장 보편 타당한 이 분야 의학지식을 보전하고 모든 회원에 숙지 시키며 발전되어 가는 학문의 임상적용에 합리적이고 주도적 역할을 수행한다. 대한신경외과학회는 적절한 의료행위를 수행하고 회원으로서의 의무를 이행하는 회원의 권익을 옹호하고 회원 상호간의 학문교류와 친목을 도모한다.

### ■ 대한신경외과학회 창립회원

김선근 김원목 김윤범 문태준 서용원 심보성 윤복영 이주걸  
이철우 이현재 임광세 정희섭 허 곤 (이상 13명, 가나다 순)

### ■ 대한신경외과학회 연혁

- 1961. 03. 11. 대한신경외과학회 18인 창립회의 개최(서울 소공동 소재 국제호텔)
- 1961. 10. 29. 제1차 신경외과 학술대회 및 창립총회(참가자 40명, 서울대병원)
- 1963. 05. 29. 제1차 전문의 자격고시 실시(전문의 31명 배출)
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- 1965. 08. 22. 세계신경외과학회연맹(WFNS) 가입
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- 1975. 대구-경북지회 설립
- 1982. 03. 27. 호남지회 설립
- 1983. 04. 30. 제 1 차 춘계학술대회 개최(경주)
- 1984. 09. 25. 이사장 제도로 전환
- 1986. 11. 22. 뇌혈관질환연구회 창립
- 1987. 04. 09. 대한소아신경외과학연구회 창립
- 1987. 10. 22. 대한척추신경외과연구회 창립
- 1989. 신경외과학 초판 발간
- 1990. 02. 21. 정위기능신경외과연구회 창립
- 1991. 05. 17. 대한뇌종양연구회 창립
- 1991. 07. 12. 서울-경인지회 설립
- 1991. 10. 06. 제 8 차 아시아·대양주 신경외과학회 학술대회 개최(서울)
- 1993. 03. 20. 대한신경손상연구회 창립
- 1994. 08. 24. 대한두개저외과학회 창립
- 1994. 11. 30. 대전-충청지회 설립
- 1995. 01. 14. 재단법인 대한신경외과학 연구재단 발족
- 1996. 04. 18. 대한뇌혈관내수술연구회 창립
- 1996. 12. 11. 학회회관 구입(서울시 서초구 서초동 1678-2)
- 1997. 06. 27. 대한노인신경외과연구회 창립
- 2001. 07. 18. 대한신경통증학회 창립
- 2002. 10. 18. 대한신경외과학회 40년사 발간
- 2007. 09. 12. 학회회관 이전(서울 중구 순화동 151)
- 2007. 11. 20. 2013년 WFNS 세계신경외과학회 서울 유치
- 2008. 03. JKNS SCI 등재
- 2008. 04. 18. 대한신경외과학회 여의사회 창립
- 2008. 12. 06. 대한말초신경학회 창립
- 2011. 11. 2015년 아시아·대양주 신경외과학회 유치
- 2012. 4. 현재 수련기관 84개, 정회원수 2,562명, 5개 지회 및 10개 분과학회

## 개 회 사

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대한신경외과학회 회장 김수한



대한신경외과학회 이사장 이규성

존경하는 대한신경외과학회 회원님께 올립니다.

몇십 년 만의 기록적인 한파를 보였던 지난 겨울도 시간의 흐름 속에서 어김없이 이어지는 봄의 기운에 그 기세가 서서히 누그러지면서 이제 우리 주변 이곳저곳 찬바람이 지나간 자리에 어느덧 따뜻한 기운이 자리를 잡아가면서 날카롭게 살을 파고들던 바람 끝이 조금씩 무뎠지면서 부드럽게 변하여 봄의 기운을 온몸으로 느낄 수 있는 요즘입니다. 겨우내 뽕뽕 얼었던 얼음이 녹듯 우리의 마음과 주변에 맴도는 이런 저런 어려움과 걱정거리가 이 봄과 함께 녹아버리면 좋겠습니다. 이번 봄을 맞이하면서 저의 마음이 더욱 설레는 이유는 몇십 년 만의 기록적인 한파를 보였던 지난 겨울을 무사히 보냈기 때문만이 아니라 2012년 제30차 대한신경외과학회 춘계학술대회가 오랜만에 광주에서 개최되기 때문입니다. 1991년도에 신양파크호텔에서 제9차 춘계학회를 개최한 이래 실로 20년 만에 광주에서 개최되는 이번 춘계학술대회에 여러분의 많은 관심과 적극적인 참여를 기대하고 있습니다.

춘계학회 준비위원장으로 조직위원회에서 논의한 결과, 이번 춘계학회는 특별히 일부 시간을 할애하여 대한신경외과학회 호남지회 김재휴회장님을 비롯한 전회원들이 함께 역량을 발휘해서 호남지방 고유의 특성을 살리고 많은 회원들에게 골고루 유익하면서 흥미롭고 알찬 시간이 될 수 있는 프로그램을 기획하였습니다. 광주는 오래 전부터 “예향의 고장”으로 알려져 있습니다. 이에 전남대학교예술대학 국악과 김광복 교수께서 “신명나는 우리 가락의 이해”라는 주제로 진행하는 시간에는 그동안

우리가 무관심했던 국악을 제대로 이해하고 흥미를 돋우어 우리 가락에 대한 지속적인 관심을 갖도록 하는 시간을 마련하였습니다. 이 외에 뇌전증 환자에 대한 외과적 치료의 과거, 현재, 미래(최하영 교수), 뇌종양분야 특성화의 성공전략(정신 교수), 중증외상센터에서 신경외과의 역할(김태선 교수), 개원가에서 바라보는 신경외과의 현재와 미래(곽형준 원장)와 같은 여러 회원들께서 관심이 있는 주제를 선택하여 준비하였습니다.

금번 춘계학회는 한-터키 신경외과학회 합동으로 개최할 예정이었으나 터키 측에서 금년 2월 초에서야 그곳 학회의 사정으로 참석할 수 없다는 연락이 와서 이번 춘계학회는 해외 초청연자가 최소로 축소되어 실로 대한신경외과학회 회원들의 한마당이 될 것 같습니다. 내년 2013년에는 대한신경외과학회 창립 후 최초로 제15차 세계신경외과학회(WFNS)를 우리 회원들이 주관해서 서울에서 개최해야 합니다. 여러 가지 어려움을 딛고 이루어낸 세계신경외과학회 개최인 만큼 비록 우리 주변의 상황이 과거와 달리 여러 가지 면에서 어렵게 변했지만 회원 모두가 한마음이 되어 성실하게 준비해서 학회를 개최하여 대한신경외과학회의 발전된 위상을 세계신경외과학회 회원들에게 널리 알릴 수 있는 성공적인 학회가 될 수 있도록 모든 회원이 단합하여 함께 노력하기를 다짐하는 자리가 되면 좋을 것 같습니다.

광주는 또한 “맛의 고장”으로도 알려져 있습니다. 학회장소인 “김대중 컨벤션센터”와 가까운 부근에는 저렴한 비용으로 각종 맛을 즐길 수 있는 다양한 음식점이 많이 있습니다. 이 지방 특유의 깊은 맛과 인심을 경험해보시는 것도 광주를 방문하는 즐거움 중의 하나가 될 것입니다. 학회 전날인 목요일에는 광주에서 제일 아름다운 골프장으로 알려진 골드레이크 C.C.에서 모임이 있습니다. 관심 있는 회원님들께서는 잠시 쳇바퀴와 같은 일상에서 벗어나 4월의 싱그러움을 만끽하시어 몸과 마음에 활력을 듬뿍 담아가시기 바랍니다.

우리학회의 명예회장, 고문, 임원 여러분과 모든 회원님들과 함께 대한신경외과학회가 더욱 발전할 수 있도록 노력하겠습니다. 회원 여러분의 많은 참여와 조언을 부탁드립니다. 여러분의 건강과 가정의 평안을 기원합니다.

2012년 4월  
대한신경외과학회 회 장 김 수 한  
이사장 이 규 성

## **Distinguished members of the Korean Neurosurgical Society**

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The recent cold spell that brought us the lowest temperatures in decades seems to have petered out. The frozen ground has finally warmed enough to allow green sprouts to emerge and greet the world. As the warmth of spring energizes all of our bodies, I hope the challenges and concerns surrounding us can resolve themselves and melt from our minds. The fact that the coldest winter in recent memory is now behind us is not my only cause for excitement this spring. I am also thrilled to have the chance to welcome our members to the upcoming the 30<sup>th</sup> Annual Spring Meeting of the Korean Neurosurgical Society, to be held for a second time in Gwangju after the city hosted our 9th Annual Spring Meeting of the KNS over 20 years ago in 1991. We are looking forward to your active interest and participation.

When developing this year's program, we asked our members in Honam Neurosurgical Society to prepare a unique session with its own special local flavor for the enjoyment of all meeting participants. We hope that the program will turn out to be both fruitful and pleasurable for everyone who will join us there. As the city of Gwangju has long been famous as a center for arts, we invited Professor Kwang-bok Kim from the College of Arts at Chonnam National University to host a session entitled, "Understanding Cheerful Traditional Korean Tunes." The event will help us both ignite and sustain a continued interest in traditional music. Furthermore, all sorts of fascinating topics are in the pipeline: A prospect of epilepsy surgery (by Professor Ha-Young Choi); Specialized brain tumor center: strategies for success (by Professor Shin Jung); The role of neurosurgeon in a major trauma center (by Professor Tae Sun Kim); Present and future of neurosurgeon in practice (President HyungJun Kwak).

This year's spring meeting had originally been planned as a joint meeting co-hosted by the Neurosurgical Societies of both Korea and Turkey. However, our counterparts in Turkey contacted us in early February with the unfortunate news that they would be unable to participate in the event. This has significantly reduced this year's number of international par-

ticipants, but it makes the event more of a festival for our KNS members. Still, the XV WFNS World Congress of Neurological Surgery is awaiting us next year in Seoul. As we had to overcome some tough competition in our successful bid to host the World Congress, let's join forces and fully prepare for this event as an opportunity to share Korea's achievements in the field of neurosurgery with other WFNS members.

As you are probably well aware, Gwangju has been nicknamed the "Town of Great Flavors," boasting lots of savory dishes. The streets around the Kimdaejung Convention Center, the venue for the 30<sup>th</sup> Annual Spring Meeting of KNS, are lined by an abundance of restaurants offering delicious local specialties at great prices. Enjoying these regional flavors and the accompanying warm welcomes will be a pleasant sideline to the event. On the eve of the meeting, we are also inviting our members to the Gold Lake Golf Club. As it is considered the most scenic club in the region, we would like to encourage you to take a break from your busy daily routine and enjoy vitality of the emerging greens of April.

As the Congress President of the 30<sup>th</sup> Annual Spring Meeting of the Korean Neurosurgical Society, I have been working closely with the President of our society, Kyu-Sung Lee, and the members of the organizing committee to prepare this spring meeting one of the best that we ever had. We could promise to the honorable Honorary Presidents, Members of the Advisory Council, distinguished guests, and all participants of the meeting that all of us will experience the cutting edge scientific program as well as the social program, and enjoy Honam hospitality. We look forward to your continuing support and active participation in the 30<sup>th</sup> Annual Spring Meeting.

April, 2012

**Soo-Han Kim**

President of the KNS Congress

**Kyu-Sung Lee**

President of the KNS

# Soo-Han Kim, M.D., Ph.D.

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8 Hak-dong, Dong-gu, Gwangju, Korea

## Education

- 1973. M.D. Chonnam National Univ., Medical School.
- 1973–1974 Internship, Chonnam Univ. Hospital
- 1974–1978 Residency of Neurosurgery. Chonnam Univ. Hospital
- 1978. Master's. Chonnam National Univ., Graduate School
- 1985. Ph.D. Chonbuk National Univ., Graduate School
- 1987–1988 Visiting professor, Department of Neurosurgery  
Osaka City Univ. Hospital

## Professional Affiliations

- 1982–1984 Fulltime instructor, Chonnam Univ. Medical School
- 1984–1988 Assistant professor, Chonnam Univ. Medical School
- 1988–1993 Associate professor, Chonnam Univ. Medical School
- 1993– Professor, Chonnam Univ. Medical School
- 1998–2004 Chairman, Department of Neurosurgery  
Chonnam Univ. Hospital
- 1999–2001 President of Korean Spinal Neurosurgery Society  
President of Honnam Neurosurgical Society
- 2004–2009 Chief professor, Department of Neurosurgery  
Chonnam Univ. Medical School
- 2011–2012 President of Korean Neurosurgical Society

## Academic Interests

- Neurological diseases of the spine and spinal cord
- Minimal invasive surgery for benign spinal lesions

## 역대 대한신경외과학회 임원 명단

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1961-62년도

회 장:이주걸 / 부회장:이헌재 / 총 무:심보성 / 학 술:문태준

1962-63년도

회 장:이주걸 / 부회장:심보성 / 총 무:주정화 / 학 술:문태준

1963-64년도

회 장:이주걸 / 부회장:문태준 / 총 무:심보성 / 학 술:임광세

1964-65년도

회 장:이주걸 / 부회장:임광세 / 총 무:심보성 / 학 술:김순욱

1965-66년도

회 장:이헌재 / 부회장:이철우 / 총 무:심보성 / 학 술:김순욱

1966-67년도

회 장:김정근 / 부회장:송진언 / 총 무:이헌재 / 학 술:심보성

1967-68년도

회 장:임광세 / 부회장:김원묵 / 총 무:이헌재 / 학 술:심보성

1968-69년도

회 장:문태준 / 부회장:우정현 / 총 무:김정근 / 학 술:심보성

1969-70년도

회 장:심보성 / 부회장:이인수 / 총 무:김정근 / 학 술:송진언

1970-71년도

회 장:김원묵 / 부회장:김순욱 / 총 무:이헌재 / 학 술:김정근

1971-72년도

회 장:송진언 / 부회장:김선근 / 총 무:허 곤 / 학 술:이인수

1972-73년도

회 장:이인수 / 부회장:김윤범 / 총 무:허 곤 / 학 술:우정현

1973-74년도

회 장:이철우 / 부회장:김선근 / 총 무:주정화 / 학 술:우정현

1974-75년도

회 장:김선근 / 부회장:허 곤 / 총 무:주정화 / 학 술:정환영



1975-76년도

회 장:윤복영 / 부회장:허 곤 / 총 무:정환영 / 학 술:주정화

1976-77년도

회 장:허 곤 / 부회장:김윤범 / 총 무:정환영 / 학 술:주정화

1977-78년도

회 장:김윤범 / 부회장:정환영 / 총 무:임광세 / 학 술:심보성

1978-79년도

회 장:정환영 / 부회장:우정현 / 총 무:임광세 / 학 술:심보성

1979-80년도

회 장:우정현 / 부회장:주정화 / 총 무:송진언 / 학 술:이헌재

1980-81년도

회 장:주정화 / 부회장:조성옥 / 총 무:이인수 / 학 술:이헌재

1981-82년도

회 장:조성옥 / 부회장:이영근 / 총 무:이인수 / 학 술:임광세

1982-83년도

회 장:이영근 / 부회장:강성구 / 총 무:주정화 / 학 술:임광세

1983-84년도

회 장:강성구 / 부회장:최길수 / 총 무:최길수 / 학 술:이규창

1984-85년도

이사장:최길수 / 회 장:송두호 / 부회장:양승렬 / 학 술:이규창

1985-86년도

이사장:최길수 / 회 장:양승렬 / 부회장:이영우 / 학 술:임 언

1986-87년도

이사장:이규창 / 회 장:이영우 / 부회장:정광진

1987-88년도

이사장:이규창 / 회 장:정광진 / 부회장:최길수

1988-89년도

이사장:임 언 / 회 장:최길수 / 부회장:김두원

상임이사:총 무:최덕영 / 학 술:이기찬

간 행:정상섭 / 재 무:김승래

고 시:최길수 / 보 험:이영우 / 특 별:이제혁

## 1989-90년도

이사장:임 언 / 회 장:김두원 / 부회장:김승래  
상임이사:총 무:이기찬 / 고 시:최덕영 / 간 행:정상섭  
재 무:김승래 / 학 술:최길수 / 보 험:이영우  
특 별:이제혁·최창락

## 1990-91년도

이사장:이기찬 / 회 장:김승래 / 부회장:최덕영  
상임이사:총 무:최창락 / 고 시:최덕영 / 간 행:임 언  
재 무:이제혁 / 학 술:정상섭 / 보 험:이영우  
특 별:최길수·김승래

## 1991-92년도

이사장:이기찬 / 회 장:최덕영 / 부회장:이화동  
상임이사:총 무:최창락 / 고 시:최덕영 / 간 행:임 언  
재 무:이제혁 / 학 술:정상섭 / 보 험:김승래  
특 별:이화동·한대희

## 1992-93년도

이사장:정상섭 / 회 장:이화동 / 부회장:김인홍  
상임이사:총 무:정상섭 / 고 시:이기찬 / 간 행:한대희  
재 무:이제혁 / 학 술:최창락 / 보 험:김승래  
특 별:이화동·임 언·최덕영

## 1993-94년도

이사장:정상섭 / 회 장:김인홍 / 부회장:황도윤  
상임이사:총 무:정상섭 / 고 시:이기찬 / 간 행:한대희  
재 무:이제혁 / 학 술:최창락 / 보 험:김승래  
특 별:최덕영·심재홍·김광명

## 1994-95년도

이사장:최창락 / 회 장:황도윤 / 부회장:심재홍  
상임이사:총 무:최창락 / 학 술:한대희 / 간 행:김광명  
고 시:이기찬 / 수련교육:이정청 / 재 무:박연목  
보 험:변박장 / 특 별:심재홍·김영수·김국기

## 1995-96년도

이사장:최창락 / 회 장:심재홍 / 부회장:유태전  
상임이사:총 무:최창락 / 학 술:한대희 / 재 무:박연묵  
간 행:김영수 / 보 험:변박장 / 고 시:김국기  
수련교육:김광명 / 특 별:김형동·이정청·이훈갑

## 1996-97년도

이사장:한대희 / 회 장:유태전 / 부회장:이정청  
상임이사:총 무:조병규 / 학 술:김영수 / 고 시:김국기  
간 행:이훈갑 / 수련교육:김광명 / 보 험:변박장  
재 무:박연묵 / 윤 리:강준기 / 진료심의:김형동  
기획홍보:김 윤 / 특 별:이정청

## 1997-98년도

이사장:한대희 / 회 장:이정청 / 부회장:김국기  
상임이사:총 무:조병규 / 학 술:김영수 / 고 시:김국기  
간 행:이훈갑 / 수련교육:강삼석 / 보 험:변박장  
재 무:박연묵 / 윤 리:강준기 / 진료심의:김형동  
기획홍보:김 윤

## 1998-99년도

이사장:김영수 / 회 장:김국기 / 부회장:이제혁  
상임이사:총 무:최중언 / 기획홍보:김 윤 / 학 술:변박장  
국제교류:조병규 / 고 시:강준기 / 수련교육:강삼석  
재 무:이봉암 / 보 험:박상근 / 진료심의:김형동  
법제윤리:조수호 / 회원관리:서중근 / 개 원 의:정헌화  
특 별:김국기  
별정직:고 시 위 원 장:강준기  
학술지편집위원장:이훈갑  
교과서편찬위원장:김달수

## 1999-2000년도

이사장:김영수 / 회 장:이제혁 / 부회장:조수호  
상임이사:총 무:최중언 / 기획홍보:김 윤 / 학 술:변박장  
국제교류:조병규 / 고 시:강준기 / 수련교육:강삼석  
재 무:이봉암 / 보 험:박상근 / 진료심의:김형동  
법제윤리:조수호 / 회원관리:서중근 / 개 원 의:최낙원  
특 별:이제혁  
별정직:고 시 위 원 장:강준기  
학술지편집위원장:이훈갑  
교과서편찬위원장:김달수

## 2000-2001년도

이사장:조병규 / 회 장:조수호 / 차기이사장:변박장 / 차기회장:강준기  
상임이사:총 무:정희원 / 학 술:김문찬 / 고 시:강준기  
수련교육:최중언 / 재 무:오석전 / 보 험:박상근  
진료심의:김수한 / 법제윤리:최병연 / 국제교류:변박장  
회원관리:최창화 / 기획홍보:김동호 / 개 원 의:최낙원  
특 별:조수호  
별정직:고 시 위 원 장:강준기  
학술지편집위원장:이훈갑  
교과서편찬위원장:김달수

## 2001-2002년도

이사장:조병규 / 회 장:강준기 / 차기이사장:변박장 / 차기회장:김 윤  
상임이사:총 무:정희원 / 학 술:김문찬 / 고 시:최중언  
수련교육:김종현 / 재 무:오석전 / 보 험:박상근  
진료심의:김수한 / 법제윤리:최병연 / 국제교류:변박장  
회원관리:최창화 / 기획홍보:김동호 / 개 원 의:최낙원  
별정직:고 시 위 원 장:최중언  
학술지편집위원장:김동규  
교과서편찬위원장:정용구

## 2002-2003년도

이사장:변박장 / 회 장:김 윤 / 차기이사장:김문찬 / 차기회장:김형동  
상임이사:총 무:오석전 / 학 술:정희원 / 고 시:최중언  
수련교육:김중현 / 기 획:조경기 / 재 무:김태성  
보 험:박성근 / 진료심의:김수한 / 법제윤리:최순관  
홍 보:함인석 / 국제교류:김문찬 / 회원관리:최창화  
전산정보:김동호 / 개 원 의:최낙원 / 특 별:서중근  
별정직:학술지편집위원장:김동규  
교과서편찬위원장:정용구

## 2003-2004년도

이사장:변박장 / 회 장:김형동 / 차기이사장:김문찬 / 차기회장:최중언  
상임이사:총 무:오석전 / 학 술:정희원 / 고 시:최중언  
수련교육:김중현 / 기 획:조경기 / 재 무:김태성  
보 험:박성근 / 진료심의:김수한 / 법제윤리:최순관  
홍 보:함인석 / 국제교류:김문찬 / 회원관리:최창화  
전산정보:김동호 / 개 원 의:최낙원 / 특 별:서중근, 최중언  
별정직:학술지편집위원장:김동규  
교과서편찬위원장:정용구

## 2004-2005년도

이사장:김문찬 / 회 장:최중언 / 차기이사장:정희원 / 차기회장:강삼석  
상임이사:총 무:백민우 / 학 술:오석전 / 고 시:김중현  
수련교육:함인석 / 기 획:서중근 / 재 무:김태성  
보 험:김주승 / 진료심의:김재휴 / 법제윤리:최순관  
홍 보:이규성 / 국제교류:정희원 / 회원관리:최창화  
전산정보:김동호 / 의료정책:이상호 / 개 원 의:최낙원  
특 별:김헌주  
별정직:학술지편집위원장:김동규  
교과서편찬위원장:이경석  
역사편찬위원장:황성남

## 2005-2006년도

이사장:김문찬 / 회 장:강삼석 / 차기이사장:정희원 / 차기회장:임만빈  
상임이사:총 무:백민우 / 학 술:오석전 / 고 시:김종현  
수련교육:함인석 / 기 획:서중근 / 재 무:김태성  
보 험:김주승 / 진료심의:김재휴 / 법제윤리:최순관  
홍 보:이규성 / 국제교류:정희원 / 회원관리:최창화  
전산정보:김동호 / 의료정책:이상호 / 개 원 의:최낙원  
특 별:김현주  
별정직:학술지편집위원장:김동규  
교과서편찬위원장:이경석  
역사편찬위원장:황성남

## 2006-2007년도

이사장:정희원 / 회 장:임만빈 / 차기이사장:오석전 / 차기회장:박상근  
상임이사:총 무:이규성 / 학 술:김동규 / 고 시:함인석  
수련교육:오세문 / 기 획:박춘근 / 재 무:백민우  
보 험:김주승 / 진료심의:김재휴 / 법제윤리:김태성  
홍 보:이정교 / 국제교류:오석전 / 회원관리:최휴진  
전산정보:정용구 / 의료정책:여형태 / 개 원 의:이재수  
특 별:송시현, 김태영, 이 언, 한중우  
별정직:학술지편집위원장:이경석  
교과서편찬위원장:허승곤  
역사편찬위원장:황성남  
특별위원회:세계학회유치단장:한대희  
회칙개정연구위원장:임영진  
자보업무위원장:이상원  
근거중심의학위원장:정천기  
국제화추진위원장:박정율

## 2007-2008년도

이사장:정희원 / 회 장:박상근 / 차기이사장:오석전 / 차기회장:윤일규  
상임이사:총 무:이규성 / 학 술:김동규 / 고 시:이상원  
수련교육:오세문 / 기 획:박춘근 / 재 무:백민우  
보 험:김주승 / 진료심의:김재휴 / 법제윤리:김태성  
홍 보:이정교 / 국제교류:오석전 / 회원관리:최휴진  
전산정보:정용구 / 의료정책:여형태 / 개 원 의:이재수  
특 별:함인석, 송시헌, 한종우, 이 언, 김태영

별정직:학술지편집위원장:이경석

교과서편찬위원장:허승곤

역사편찬위원장:황성남

특별위원회:회칙개정연구위원장:임영진

자보업무위원장:김영백

근거중심의학위원장:정천기

국제화추진위원장:박정울

의료행위관리포럼:박상근

## 2008-2009년도

이사장:오석전 / 회 장:윤일규 / 차기이사장:이규성 / 차기회장:이동열  
상임이사:총 무:김주승 / 학 술:정용구 / 고 시:이상원  
수련교육:오세문 / 기 획:공 석 / 재 무:김오룡  
보 험:임영진 / 진료심의:김재휴 / 법제윤리:김태영  
홍 보:박춘근 / 국제교류:이규성 / 회원관리:최휴진  
전산정보:윤도흠 / 의료정책:여형태 / 관련학회조정:고 용  
개 원 의:장일태  
특 별:박 관, 배학근, 송시헌, 이 언, 이정교, 정용태

별정직:학술지편집위원장:이경석

교과서편찬위원장:공 석

학회사편찬위원장:황성남

## 2009-2010년도

이사장:오석전 / 회 장:이동열 / 차기이사장:이규성 / 차기회장:이상원  
상임이사:총 무:김주승 / 학 술:정용구 / 고 시:이상원  
수련교육:오세문 / 기 획:공 석 / 재 무:김오룡  
보 험:임영진 / 진료심의:김재휴 / 법제윤리:김태영  
홍 보:박춘근 / 국제교류:이규성 / 회원관리:최휴진  
전산정보:윤도흠 / 의료정책:여형태 / 관련학회조정:고 용  
개 원 의:장일태, 김문간  
특 별:박 관, 배학근, 송시현, 이 언, 이정교, 정용태  
별정직:학술지편집위원장:박정울  
교과서편찬위원장:김영준  
학회사편찬위원장:황성남

## 2010-2011년도

이사장:이규성 / 회 장:이상원 / 차기이사장:정용구 / 차기회장:김수한  
상임이사:총 무:임영진 / 학 술:신용삼 / 고 시:김태영  
수련교육:정천기 / 기 획:홍용길 / 재 무:장진우  
보 험:박현선 / 진료심의:김오룡 / 법제윤리:김상진  
홍 보:홍승철 / 국제교류:정용구 / 회원관리:정 신  
전산정보:김영백 / 의료정책:강재규 / 개 원 의:김문간  
특 별:강동기, 권도훈, 송근성, 송시현, 이경진, 이무섭  
이 언, 최천식  
별정직:학술지편집위원장:박정울  
교과서편찬위원장:김영준  
학회사편찬위원장:황성남



## 2011-2012년도

이사장:이규성 / 회 장:김수한 / 차기이사장:정용구 / 차기회장:여형태  
상임이사:총 무:임영진 / 학 술:신용삼 / 고 시:김태영  
수련교육:정천기 / 기 획:홍용길 / 재 무:장진우  
보 험:박현선 / 진료심의:김오룡 / 법제윤리:김상진  
홍 보:홍승철 / 국제교류:정용구 / 회원관리:정 신  
전산정보:김영백 / 의료정책:강재규 / 개 원 의:김문간  
특 별:강동기, 권도훈, 송근성, 송시현, 이경진, 이무섭  
이 언, 최천식

별정직:학술지편집위원장:박정울  
교과서편찬위원장:김영준  
학회사편찬위원장:황성남

## 대한신경외과학회 임원명단 (2011-2012)

### ◆ 명예회장 및 고문

명 예 회 장 : 임광세, 문태준, 송진언, 이인수, 김윤범, 정환영, 주정화  
최길수, 송두호, 양승렬, 정광진, 김두원, 이기찬, 이화동  
이영우, 정상섭, 최덕영, 이규창, 김승래, 이재혁, 최창락  
유태전, 강준기

고 문 : 황도운, 한대희, 이정청, 김영수, 김국기, 조병규, 조수호  
변박장, 김 윤, 김형동, 김문찬, 최종언, 강삼석, 정희원  
임만빈, 박상근, 오석전, 윤일규, 이동열

### ◆ 대한신경외과학 연구재단 임원

이 사 장 : 변박장

이 사 : 김문찬, 강삼석, 최선길, 김형동, 정희원, 오석전, 박연목  
백민우, 이규성, 송시현

감 사 : 정용구, 김주승

### ◆ 대한신경외과학회 임원

회 장 : 김수한 이 사 장 : 이규성

차기회장 : 여형태 차 기 이 사 장 : 정용구

상 임 이 사 : 총 무-임영진, 학 술-신용삼, 고 시-김태영  
수련교육-정천기, 기 획-홍용길, 재 무-장진우  
보 험-박현선, 진료심의-김오룡, 법제윤리-김상진  
홍 보-홍승철, 국제교류-정용구, 회원관리-정 신  
전산정보-김영백, 의료정책-강재규, 개 원 의-김문간  
특 별-강동기, 권도훈, 송근성, 송시현, 이경진, 이무섭  
이 언, 최천식

별 정 직 : 학술지편집-박정율, 교과서편찬-김영준, 학회사편찬-황성남

특 별 위 원 회 : 정책자문-박상근, 회칙개정-정용태  
2013세계학회조직-정희원

감 사 : 정진명, 권정택

이 사 : 강동기, 강성돈, 강재규, 강창구, 고도일, 고영초, 고 용  
고현송, 권도훈, 권오기, 권창영, 김강현, 김기욱, 김명현  
김문간, 김상근, 김상진, 김성호, 김세혁, 김수한, 김영백  
김영준, 김오룡, 김우경, 김인수, 김재휴, 김주승, 김창진  
김태영, 문성근, 박 관, 박관호, 박상근, 박세혁, 박용석

박윤관, 박인성, 박정율, 박춘근, 박현선, 배학근, 변진수  
 서의교, 송관영, 송근성, 송시현, 송준석, 신용삼, 심찬식  
 윤도흙, 이경진, 이규성, 이명기, 이무섭, 이상구, 이선일  
 이 언, 이용성, 임영진, 장석정, 장용규, 장진우, 정 신  
 정용구, 정용태, 정의화, 정천기, 정철구, 정희원, 조경기  
 조규용, 조기홍, 차승현, 최기환, 최낙원, 최세환, 최창화  
 최천식, 최하영, 하호균, 홍승관, 홍승철, 홍용길, 황성남  
 황정현(85명)

◆ 상설위원회(상임이사)

- 총 무 위 원 회 : 임영진(위원장), 배학근(부위원장), 강성돈, 권택현, 김무성  
 김승기, 김은상, 김인수, 박문선, 박봉진, 윤수한, 이승명  
 정진환, 진동규, 김승범(간사)
- 학 술 위 원 회 : 신용삼(위원장), 김공년(부위원장), 고도일, 고준석, 공두식  
 김승민, 김정은, 류경식, 박용숙, 서의교, 안재성, 이형중  
 주성필, 최병관, 강석구(간사)
- 고 시 위 원 회 : 김태영(위원장), 김근수, 김성민, 김세훈, 김재민, 김재용  
 김태선, 나영신, 민경수, 박익성, 백선하, 이영배, 장재철  
 차승현, 허 룡, 황 금, 황정현, 김대원(간사)
- 수련교육위원회 : 정천기(위원장), 고 용, 김범태, 김정훈, 문창택, 이정일  
 이채혁, 이호국, 전신수, 조용은, 최하영
- [연수소위원회] : 강희인, 권오기, 김선환, 성재훈, 유 현, 최석근, 황선철
- 기 획 위 원 회 : 홍용길(위원장), 이일우(부위원장), 고영초, 권오기, 박세혁  
 박춘근, 변진수, 이상구, 조우진, 한성록, 양승호(간사)
- 재 무 위 원 회 : 장진우(위원장), 정현호(부위원장)
- 보 험 위 원 회 : 박현선(위원장), 이종오(부위원장), 강동기, 김공년, 김동석  
 김상돈, 김성민, 박석규, 박진규, 박춘근, 안영환, 이영배  
 정영균, 조용은, 김재훈(간사)
- [중앙전문위원회] : 고 용, 김근수, 박봉진, 성재훈, 허 룡
- 진료심의위원회 : 김오룡(위원장), 최기환(부위원장), 김재휴, 박 관, 박윤관  
 백광흙, 염진영, 오창완, 이경석, 이승훈, 장철훈, 전상룡  
 최창화, 현동근, 조원호(간사)
- 법제윤리위원회 : 김상진(위원장), 김성호, 박승원, 성주경, 손문준, 신동규  
 신동아, 임재현, 임좌혁, 조기홍, 신현철(간사)
- 홍 보 위 원 회 : 홍승철(위원장), 김재민(부위원장), 고은정, 김성림, 심숙영  
 양국희, 이관성, 조 준, 한영민, 허필우, 황성남, 이선호(간사)

- 국제교류위원회 : 정용구(위원장), 김우경(부위원장), 김동호, 김종규, 박철기  
손병철, 임동준
- 회원관리위원회 : 정 신(위원장), 김은영(부위원장), 김민수, 김세혁, 김영규  
김재용, 김현우, 은종필, 이기택, 조규용, 조창원, 강신혁(간사)
- 전산정보위원회 : 김영백(위원장), 안영환(부위원장), 김상우, 김석원, 박종태  
유 현, 이상구, 최석민, 한정호, 남택균(간사)
- 의료정책위원회 : 강재규(위원장), 김기욱(부위원장), 고현송, 김대현, 김인영  
문성근, 조태형, 한동석, 문재곤(간사)
- 개원의위원회 : 김문간(위원장), 강원봉, 김진호, 도병룡, 박권희, 박진규  
양승민, 임종현, 정창오, 한동석(간사)

#### ◆ 별정직위원회

- 학술지편집위원회 : 박정울(위원장), 권택현, 김영백, 김은영, 김정훈, 류경식  
문창택, 박세혁, 송근성, 심기범, 오창완, 윤수한, 이무섭  
이선일, 정천기, 주진양, 최기환, 최하영, 김상대(간사)  
박용숙(간사)
- 교과서편찬위원회 : 김영준(위원장), 강석구, 강신혁, 공두식, 김대원, 김동석  
김범태, 김성민, 김세훈, 김영진, 김일만, 김종현, 박용숙  
서의교, 양지호, 유도성, 이상원, 이승환, 이영배, 이정길  
임동준, 장인복, 장철훈, 장호열, 전형준, 정 신, 정제훈  
정태영, 차승헌, 허 룡, 현동근, 홍석호, 이형중(총무)
- 학회사편찬위원회 : 황성남(위원장), 김동석, 김세훈, 문창택, 박석규, 박승원  
유 현, 이호국, 황선철, 남택균(간사)

#### ◆ 특별위원회

- 정책자문위원회 : 박상근(위원장), 강동기, 강재규, 고도일, 박봉진, 박현선  
이상형, 임영진, 장일태, 최낙원, 최세환
- 회칙개정위원회 : 정용태(위원장), 이정일(부위원장), 고현송, 김성호, 성재훈  
안영환, 이상원, 이정길, 조용준, 홍석호
- 제15차 세계신경외과학회 조직위원회  
명예회장 : 한대희, 최종언, 김문찬  
조직위원장 : 정희원  
수석부회장 : 오석전  
부회장 : 임만빈, 김수한, 이상호, 백민우, 최낙원, 김동호, 이정교, 송시헌  
최창화, 최하영, 여형태  
사무총장 : 이규성

사무부총장 : 정용구

재무위원회 : 함인석 위원장, 고 용 공동위원장

학술위원회 : 박춘근 위원장, 박 관 공동위원장

총무기획위원회 : 이규성 위원장, 신형진 공동위원장

대회진행위원회 : 정용구 위원장, 정 신 공동위원장

재정후원위원회 : 이상원 위원장, 김재민 공동위원장

해외섭외위원회 : 왕규창 위원장, 김창진 공동위원장

기업전시위원회 : 전신수 위원장, 이선일 공동위원장

홍보언론위원회 : 정천기 위원장, 장진우 공동위원장

연회행사위원회 : 임영진 위원장, 최휴진 공동위원장

출판위원회 : 김영준 위원장, 박정울 공동위원장

등록위원회 : 김영백 위원장, 박윤관 공동위원장

체류관리위원회 : 박세혁 위원장, 김영수 공동위원장

관광관리위원회 : 배학근 위원장, 강동기 공동위원장

국제협력위원회 : 조경기 위원장, 김태영 공동위원장

여의사위원회 : 박문선 위원장

#### ◆ 분과학회

정위-기능신경외과학회 : 정용태(회장), 허 룡(총무), 이정일(학술)(2012.03-2013.03)

뇌 종 양 학 회 : 홍용길(회장), 이선일(총무), 김영규(학술)(2011.07-2012.06)

뇌혈관외과학회 : 강성돈(회장), 박현선(총무), 김범태(학술)(2012.02-2013.02)

소아신경외과학회 : 강재규(회장), 나영신(총무), 김승기(학술)(2011.05-2012.05)

척추신경외과학회 : 윤도흠(회장), 김은상(총무), 노성우(학술)(2011.09-2012.09)

신 경 손 상 학 회 : 이무섭(회장), 권택현(총무), 현동근(학술)(2011.06-2012.05)

뇌혈관내수술학회 : 권오기(회장), 전영일(총무), 고준석(학술)(2011.12-2013.12)

노인신경외과학회 : 최창화(회장), 김성호(총무), 박정울(학술)(2011.02-2013.02)

신 경 통 증 학 회 : 김상진(회장), 윤영설(총무), 김형일(학술)(2010.04-2012.04)

말 초 신 경 학 회 : 김명현(회장), 김세훈(총무), 양희진(학술)(2011.11-2012.11)

#### ◆ 지 회

서울 · 경인지회 : 조기홍(회장), 김범태(총무) (2012.03-2013.03)

대구 · 경북지회 : 김상근(회장), 김인수(총무) (2012.01-2013.01)

부산 · 울산 · 경남지회 : 박용석(회장), 송준석(총무) (2012.01-2012.12)

대전 · 충청지회 : 정철구(회장), 김현우(총무) (2012.01-2013.12)

호 남 지 회 : 김재휴(회장), 서보라(총무) (2012.03-2013.03)

◆ **파견대의원 및 대표**

대한의학회 평의원 : 이규성

대한의사협회 대의원 : 이규성, 정용구(교체평의원)

대한병원협회 신입위원 : 이규성, 정천기(교체신입위원)

한국과학기술단체총연합회 : 이규성, 김수한, 정용구, 신용삼

세계신경외과학회 대의원 : 이규성, 박춘근, 오석전, 왕규창

아시아대양주학회 대의원 : 이규성, 박춘근, 오석전, 왕규창

건강보험심사평가원 상근심사위원 : 변박장

## THURSDAY, APRIL 26, 2012

13 : 00	<b>Workshop</b>	Convention Hall 2+3 (4F)
	<b>Vascular</b>	Chairpersons: Man-Bin Yim, Chang Wan Oh
	<b>Video practical workshop on cerebral aneurysm-how to avoid complication: learning from the experts</b>	
	1) Safe technique of ACP removal & management dural ring	Han Kyu Kim (Eulji Univ.), Sung Don Kang (Wonkwang Univ.) Panelist : Jae Sung Ahn (Ulsan Univ.)
~	2) Cisternal opening and arachnoid dissection	Pil Woo Huh (The Catholic Univ. of Korea) Bum-Tae Kim (Soonchunhyang Univ.) Panelist : Jong-Soo Kim (Sungkyunkwan Univ.)
	3) Tactics in neck dissection: avoiding unexpected injuries	Byung-Duk Kwun (Ulsan Univ.) Seung-Chyul Hong (Sungkyunkwan Univ.) Panelist : Young-Gyun Jeong (Inje Univ.)
	4) How to manage premature rupture	Byung-Yon Choi (Yeungnam Univ.), Jin Yang Joo (Yonsei Univ.) Panelist : Tae Sun Kim (Chonnam National Univ.)
15 : 00		
15 : 00	<b>Scientific Committee</b>	Chairperson: Yong Sam Shin (Scientific Chair)
	1) Role and etiquette of speakers, questioners, and chairpersons	Kyeong-Seok Lee (Soonchunhyang Univ.)
~	2) Participation of international meeting and tips for successful presentation	Jung Yul Park (Korea Univ.)
16 : 30	3) How to make good slides?	Chul-Kee Park (Seoul National Univ.)

# 대한신경외과학회 제30차 춘계학술대회 일정표

Program-at-a-Glance, The 30<sup>th</sup> Annual Spring Meeting of the Korean Neurosurgical Society

**FRIDAY, APRIL 27, 2012**

08 : 00	<b>Opening Remarks</b> (Scientific Program Committee Chairman)				
	<b>Opening Address</b> (President of KNS Congress)				
08 : 10	<b>Welcome Address</b> (President of KNS)				
08 : 10	<b>Plenary Sessions</b>				Convention Hall 2+3 (4F)
	Chairpersons: Hyung Tae Yeo, Yong Gu Chung				
	Young Seok Park (CHA Univ.)				
	PS-1 Patients with idiopathic trigeminal neuralgia have a sharper than normal trigeminal-pontine angle and trigeminal nerve atrophy				
	PS-2 Differential production of matrix degradative enzymes and their inhibitors in annular inflammation using in vitro co-culture system				
	Joo Han Kim (Korea Univ.)				
	PS-3 Morphometric study of anterior thalamoperforating arteries				
	Hack-Gun Bae (Soonchunhyang Univ.)				
	PS-4 Dura opening technique during transsphenoidal pituitary tumor surgery (Surgical technique of transsphenoidal surgery VII)				
	Sun Ho Kim (Yonsei Univ.)				
09 : 10					
09 : 10	<b>Break</b>				
09 : 25					
09 : 25	<b>Debate in Neurosurgery</b>				Convention Hall 2+3 (4F)
	Chairperson: Hack-Gun Bae				
	DN-1 Management of spontaneous intracerebral hemorrhage				
	DN-1-1 Medical management				
	Sang-Bae Ko (Seoul National Univ. Neurology)				
	DN-1-2 Surgical management				
	In Sung Park (Gyeongsang National Univ.)				
	Chairperson: Yong-Kil Hong				
	DN-2 Optimal treatment for low grade glioma on eloquent area: aggressive radical removal vs. conservative treatment				
	Jong Hee Chang (Yonsei Univ.)				
	Chairperson: Do Heum Yoon				
10 : 45	DN-3 Surgery of lumbar disc herniation				
	Young Baeg Kim (Chung-Ang Univ.), Seung Chul Rhim (Ulsan Univ.)				
10 : 45	<b>Special Lecture</b>				Convention Hall 2+3 (4F)
	Chairperson: Shin Jung				
	<i>Naokatsu Saeki</i> (Chiba Univ.School of Medicine, Chiba, Japan)				
11 : 10	Endoscopic endonasal skull base surgery-approach, resection, reconstruction and avoidance of complications				
11 : 10	<b>Board Examination</b>				Convention Hall 2+3 (4F)
	Chairperson: Tae Young Kim (Board Examination Chair)				
11 : 30	How to make questions for neurosurgery written board examination?				
	Jeong-Hyun Hwang (Kyungpook National Univ.)				
11 : 30	<b>Information &amp; Technology Committee</b>				Convention Hall 2+3 (4F)
11 : 35	Introduction of the new Korean Neurosurgical Society homepage				
	Young Baeg Kim (Information & Technology Committee Chair)				
11 : 35	<b>2013 WFNS Report</b>				
11 : 45	<b>Commemorative Photos &amp; Transfer</b>				
12 : 00	<b>Luncheon Seminars</b>				
	Convention Hall 2 (4F)	Convention Hall 3 (4F)	Rm. 201~203 (2F)	Rm. 208~210 (2F)	Rm. 206+207 (2F)
13 : 10	Spine	Endovascular	Tumor	Nurse	Pain
13 : 10	<b>Transfer</b>				
13 : 30	<b>Honam Neurosurgical Society Symposium 1</b>				Convention Hall 2+3 (4F)
	Chairperson: Soo-Han Kim				
14 : 20	S(1) 신명나는 우리 가락의 이해				
	Kwang-bok Kim (College of Arts, Chonnam National Univ.)				
14 : 20	<b>Honam Neurosurgical Society Symposium 2</b>				Convention Hall 2+3 (4F)
	Chairperson: Jae Hyoo Kim (Honam Neurosurgical Society Chair)				
	S(2)-1 A prospect of epilepsy surgery				
	Ha-Young Choi (Chonbuk National Univ.)				
	S(2)-2 Specialized brain tumor center: strategies for success				
	Shin Jung (Chonnam National Univ.)				
	S(2)-3 The role of neurosurgeon in a major trauma center				
	Tae Sun Kim (Chonnam National Univ.)				
16 : 00	S(2)-4 Present and future of neurosurgeon in practice				
	HyungJun Kwak (Dong Gwangju Woori Spine Hospital)				
16 : 00	<b>Transfer</b>				
16 : 20					
16 : 20	<b>English Sessions</b>				Convention Hall 2+3 (4F)
	Convention Hall 2 (4F)	Convention Hall 3 (4F)	Rm. 208~210 (2F)	Rm. 206+207 (2F)	Rm. 201+202 (2F)
	Spine I	Vascular · Endovascular	Spine II	Tumor · Pediatric	Functional · Pain · Geriatric · Peripheral · Neurotrauma · Others
18 : 00					
18 : 30	<b>Gala Dinner (Holiday Inn Gwangju-Convention Hall 1 &amp; Dynasty Hall, 3F)</b>				



**SATURDAY, APRIL 28, 2012**

07 : 00	<b>Breakfast Seminars</b>					
	Convention Hall 2 (4F)	Convention Hall 3 (4F)	Rm. 208~210 (2F)	Rm. 206+207 (2F)	Rm. 201+202 (2F)	Rm. 203+204 (2F)
08 : 00	Functional	Vascular	Trauma	Pediatric	Peripheral	Geriatric
08 : 10	<b>Transfer</b>					
08 : 10	<b>Top10 Paper Presentation</b>					
	Convention Hall 2 (4F)	Convention Hall 3 (4F)	Rm. 208~210 (2F)	Rm. 206+207 (2F)	Rm. 201+202 (2F)	Rm. 203+204 (2F)
	Spine I	Vascular · Endovascular	Spine II	Tumor · Pediatric	Functional · Pain	Geriatric · Peripheral · Neurotrauma · Others
09 : 50	<b>Transfer</b>					
09 : 50	<b>Transfer</b>					
10 : 10	<b>Scientific Session</b>					
	Convention Hall 2 (4F)	Convention Hall 3 (4F)	Rm. 208~210 (2F)	Rm. 206+207 (2F)	Rm. 201+202 (2F)	Rm. 203+204 (2F)
	Spine I	Vascular · Endovascular	Spine II	Tumor · Pediatric	Functional · Pain	Geriatric · Peripheral · Neurotrauma · Others
12 : 10	<b>Adjourn</b>					
12 : 10	<b>Adjourn</b>					

## 기타 안내

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### ◆ 명찰

모든 등록을 마치신 회원님들께 명찰이 발송됩니다. 학회장에서 반드시 명찰을 지참하여 주십시오. 명찰을 착용하지 않으면, 학회장 출입이 금지 됩니다. 학회 진행요원은 “STAFF”라는 명찰을 달게 됩니다. 문의 사항이 있으면 진행요원의 도움을 받으십시오.

1. Gala Dinner ticket, Seminar ticket, 경품권이 들어 있습니다.
2. 재발급이 불가하오니 양해하여 주십시오.

## 연회 안내

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### ◆ 만찬 Gala Dinner

\* 4월 27일(금) 18시 30분

Holiday Inn Gwangju, Convention Hall 1 & Dynasty Hall (3F)

대한신경외과학회 제30차 춘계학술대회의 만찬공연을 준비하였습니다.  
회원님의 많은 참석 바랍니다.

## 전시 안내

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### 1. 전시업체 전시물 설치 장소

김대중 컨벤션 센터 중소회의실 앞(2F), 컨벤션홀 앞(4F)

### 2. 전시물 설치 시간

\* 4월 26일(목) 19 : 00 이후

### 3. 전시기간

\* 개장시간 : 4월 27일(금) 08 : 00~18 : 00

4월 28일(토) 07 : 00~12 : 10

\* 폐장시간 : 4월 28일(토) 12 : 10

# 대한신경외과학회 추계학회 학술상 지원안내

## ■■■ 지원자격

1. 대한신경외과학회(춘, 추계 및 분과학회) 또는 외국학회에서 발표되고 지난 2년 간 국내외 학술지에 게재된 논문 (2010년 8월호-2012년 7월호 사이에 게재된 논문)
2. 외국연수중 연수기관에서 연구하여 발표한 논문은 대상에서 제외합니다.
3. 논문 PDF파일과 학술상지원서(뒷면 참조)를 제출해 주십시오.
4. 지원자 1인당 1편의 논문만을 접수합니다.
5. 접수마감일: 2012년 9월 1일(토)

■■■ 보내실 곳(e-mail): [kns61@neurosurgery.or.kr](mailto:kns61@neurosurgery.or.kr)

- ## ■■■ 학술상 :
1. 대한신경외과학회 학술상 (상금 200만원)
  2. 이현재 학술상 (상금 200만원)
  3. 이주걸 학술상 (상금 100만원)
  4. 우정현 학술상 (상금 200만원)
  5. 이인수 학술상 (상금 200만원)
  6. 가톨릭 인봉(송진언) 학술상 (상금 200만원)
  7. 지강(심보성) 학술상 (상금 200만원)
  8. 정환영 학술상 (상금 300만원)
  9. 임언 학술상 (상금 300만원)

## 2012년 추계학회 학술상 지원서

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- 논문제목(한글):
- 논문제목(영문):
- 저 자:
- 소 속:
- 학술지명:
- 학술지 게재된 년, 월:
- 대한신경외과학회(혹은 산하연구회)명과 발표된 날짜:
- 외국학회에서 발표된 학회명과 발표날짜:
- 논문의 취지 및 내용요약

# 포스터(e-Poster) 안내

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## 1. 포스터(e-Poster)

포스터 발표는 컴퓨터 전시(e-Poster)로 운영됩니다.

1) 장소: Convention Hall 1, 4F

2) 전시기간: 4월 27일(금) 08:00~4월 28일(토) 12:10

- 4월 27일(금) 08:00~15:00까지 1회 시연 후 포스터 시상이 있으며, 4월 27일(금) 15:25~4월 28일(토) 12:10까지 반복재생 합니다.

## 2. 포스터(e-Poster) 시상 및 발표

이번 춘계학술대회에서는 포스터 제출 논문 중 3편의 우수 논문을 선정하여 시상합니다.

1) 장소: Convention Hall 1, 4F

2) 일시: 4월 27일(금) 16:00~16:20

- 우수 포스터 논문 시상 후 3인의 수상자에게 각 3분씩 Oral Presentation 시간이 주어집니다. 많은 관심과 참석 바랍니다.

## 3. Master's Video Room

이번 춘계학술대회에서 시행하는 Master's Video Room은 Convention Hall 1(e-Poster Room)에서 운영됩니다. 각 분과학회에서 몇 개의 주제를 의뢰하여 선정된 분야별 전문가의 수술 장면을 각 10분에 걸쳐 동영상으로 방영되오니 관심 있는 회원은 누구나 비디오를 감상 할 수 있습니다. 시간이 가능하다면 수술 집도자가 참석하여 수술 장면에 대한 구체적 설명과 질문하는 시간을 갖고자 하오니 회원 여러분의 많은 관심과 참여 바랍니다.

1) 장소: Convention Hall 1, 4F

2) 일시: 4월 27일(금) 08:00~4월 28일(토) 12:10

- 각 분야별 동영상 시간표는 Room 입구의 안내문을 참조하여 주십시오.

## 발표자 공통 준수사항

☞ 발표와 토론을 위하여 할당된 시간은 다음과 같습니다.

Scientific Session	Presentation Time	Discussion
Special Lecture	25 min. (Including discussion)	
Plenary Session	10 min.	5 min. (Panel discussion)
Seminar	Allotted by each Seminar	
English Session	7 min.	3 min.
Scientific Session	6 min.	2 min.
Top 10 paper presentation	7 min.	3 min.

\* 발표시간과 토론시간을 반드시 지켜 주십시오 (시간 종료 시 beam projector와 microphone의 전원이 꺼집니다).

\* Plenary Session, Special Lecture, English Session을 제외한 모든 발표는 **국문**입니다

### 1. 일반연제(Free Paper)

너무 큰 file의 연제는 진행에 어려움이 있을 수 있으니 가능한 file 크기를 고려하여 주십시오.

### 2. Seminar

- 1) 모든 연제의 PPT 파일은 사전에 학술대회 홈페이지의 Server에 업로드 되어야 발표가 가능합니다. PPT파일은 4월 21일(토)까지 업로드 하여 주십시오.
- 2) 파워포인트 2003, 2007, 2010으로 작성된 PPT 파일만 가능합니다.
- 3) 일반연제(6분발표)는 12페이지 이내(파일크기 12Mb 이내)를 권장하며, Poster는 4페이지(4Mb) 이내가 필수입니다.
- 4) 동영상 파일 첨부 시 화면 크기는 1024×768픽셀 이하, file format는 WMV, 비트 전송률은 3Mbps 이하(DVD 수준, 분당 22 Mb)의 규격을 지켜 주십시오. 동영상 편집에 사용된 프로그램 이름과 버전, 코덱에 대한 정보를 정확하게 입력해 주십시오.
- 5) Server에 upload된 PPT 파일의 내용은 인터넷이 연결된 상태에서 본인이 확인 할 수 있으나, 삽입된 비디오 작동여부는 확인이 불가능합니다. 따라서 동영상이 포함된 PPT 파일은 업로드 전 본인 PC에서 이상없이 작동됨을 확인해 주셔야 합니다.

- 6) 학술대회장에서 원활한 파일의 재생을 위해서 되도록 기본 폰트(특수 폰트는 깨져서 안 보이거나 다른 폰트로 대체됨)만을 사용하고, 애니메이션 기능은 사용하지 않기를 부탁드립니다.
- 7) 학회 운영상의 문제로 개인 Notebook computer 사용은 허용되지 않습니다.

## 좌장 준수사항

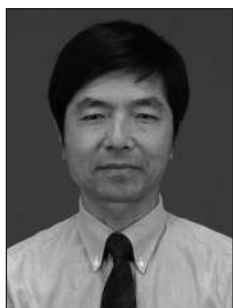
☞ 발표와 토론을 위하여 할당된 시간은 다음과 같습니다.

Scientific Session	Presentation Time	Discussion
Special Lecture	25 min. (Including discussion)	
Plenary Session	10 min.	5 min. (Panel discussion)
Seminar	Allotted by each Seminar	
English Session	7 min.	3 min.
Scientific Session	6 min.	2 min.
Top 10 paper presentation	7 min.	3 min.

### ◆ Seminar

1. 시간을 엄격히 지켜 주십시오(연제 종료시간 30초 전에 실내조명이 한번 밝아지며 할당시간이 경과하면 전원이 차단됩니다).
2. 한두 사람에게 의하여 독점되지 않도록 하여 주십시오.
3. 토론이 없는 경우를 대비하여 좋은 토론 내용을 미리 준비하여 주십시오.
4. 좌장의 발언이 필요 이상으로 길어져 일정이 지연되지 않도록 해 주십시오.
5. 주제를 벗어난 부적절한 발언이나 토론 내용은 즉시 제지시켜 주십시오.
6. Seminar는 모든 발표가 끝난 후 토론 시간이 있습니다. 토론시간이 부족하지 않도록 시작시간 및 발표시간을 꼭 지켜주십시오.

Naokatsu Saeki, M.D., Ph.D.



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#### ■ *Education*

- 1975 Graduation from Chiba University School of Medicine
- 1975 Research Fellow in University of Florida under the supervision of A.L. Rhoton, Jr. (Revisiting Univ. of Florida as a short-term research fellow in 1989 and 1992)
- 1976 Clinical Fellow at Good Samaritan Hospital (Cincinnati, Ohio) as a resident of Neurosurgery (supervised by F.H. Mayfield and J.M. Tew)
- 1978 Resident of Neurosurgery in Chiba university and its affiliated hospitals
- 1997 Associate Professor of Neurosurgery Chiba University School of Medicine
- 2005 Current Position

#### ■ *Professional Affiliations*

- 2014 President of Japanese skull base surgery
- 2011 President of Japan society for hypothalamic-pituitary tumor society
- 2010 President of Japanese society for neuroendoscopy
- 2009 President of Japanese society of aesthetic neurosurgery
- Etc. Japanese neurosurgical society
- Japanese congress of neurosurgery



Japanese congress of brain tumor surgery

Japanese conference on neurosurgical technique and tools (CNTT)

Japan Society of Neurotraumatology

Japanese stroke society

Japanese society for surgery for cerebral stroke

AANS

## ■ *Academic Interests*

Endoscopic transsphenoidal pituitary and skull base surgery

Skull Base Surgery,

Treatment of Hypothalmo-Pituitary Tumors

Cerebrovascular Disease,

Micro-anatomy

13:00-15:00

**Workshop**

Convention Hall 2+3 (4F)

Chairpersons : Man-Bin Yim, M.D., Chang Wan Oh, M.D.

**[Vascular]****Video practical workshop on cerebral aneurysm-how to avoid complication: learning from the experts**

- W-A-1 Safe technique of ACP removal & management dural ring  
Han Kyu Kim (Eulji University)  
Sung Don Kang (Wonkwang University)  
Panelist: Jae Sung Ahn (Ulsan University)
- W-A-2 Cisternal opening and arachnoid dissection  
Pil Woo Huh (The Catholic University of Korea)  
Bum-Tae Kim (Soonchunhyang University)  
Panelist: Jong-Soo Kim (Sungkyunkwan University)
- W-A-3 Tactics in neck dissection: avoiding unexpected injuries  
Byung-Duk Kwun (Ulsan University)  
Seung-Chyul Hong (Sungkyunkwan University)  
Panelist: Young-Gyun Jeong (Inje University)
- W-A-4 How to manage premature rupture  
Byung-Yon Choi (Yeungnam University)  
Jin Yang Joo (Yonsei University)  
Panelist: Tae Sun Kim (Chonnam National University)

15:00-16:30

**Workshop**

Convention Hall 2+3 (4F)

Chairperson : Yong Sam Shin, M.D.

**[Scientific Committee]**

W-B-1 Role and etiquette of speakers, questioners, and chairpersons

Kyeong-Seok Lee (Soonchunhyang University)

W-B-2 Participation of international meeting and tips for successful presentation

Jung Yul Park (Korea University)

W-B-3 How to make good slides?

Chul-Kee Park (Seoul National University)

08:10-09:10

**Plenary Session**

Convention Hall 2+3 (4F)

Chairpersons : Hyung Tae Yeo, M.D., Yong Gu Chung, M.D.

- PS-1 Patients with idiopathic trigeminal neuralgia have a sharper than normal trigeminal-pontine angle and trigeminal nerve atrophy

Young Seok Park (CHA University)

Panelist: Byung-Chul Son (The Catholic University of Korea)

- PS-2 Differential production of matrix degradative enzymes and their inhibitors in annular inflammation using in vitro co-culture system

Joo Han Kim (Korea University)

Panelist: Keun Su Kim (Yonsei University)

- PS-3 Morphometric study of anterior thalamoperforating arteries

Hack-Gun Bae (Soonchunhyang University)

Panelist: Sung Don Kang (Wonkwang University)

- PS-4 Dura opening technique during transsphenoidal pituitary tumor surgery (Surgical technique of transsphenoidal surgery VII)

Sun Ho Kim (Yonsei University)

Panelist: Young-Cho Koh (Konkuk University)

09:25-10:45

**Debate in Neurosurgery**                      Convention Hall 2+3 (4F)

Chairperson : Hack-Gun Bae, M.D.

DN-1    Management of spontaneous intracerebral hemorrhage

DN-1-1 Medical management

Sang-Bae Ko (Seoul National University Neurology)

DN-1-2 Surgical management

In Sung Park (Gyeongsang National University)

Discussion with audience

Chairperson : Yong-Kil Hong, M.D.

DN-2    Optimal treatment for low grade glioma on eloquent area:  
Aggressive radical removal vs. conservative treatment

Jong Hee Chang (Yonsei University)

Chairperson : Do Heum Yoon, M.D.

DN-3    Surgery of lumbar disc herniation

Young Baeg Kim (Chung-Ang University)

Seung Chul Rhim (Ulsan University)

**Special Lecture**

10:45-11:10

Convention Hall 2+3 (4F)

Chairperson : Shin Jung, M.D.

*Naokatsu Saeki*Endoscopic endonasal skull base surgery-approach, resection,  
reconstruction and avoidance of complications**BOARD EXAMINATION****FRIDAY, APRIL 27, 2012**

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11:10-11:30

**Board Examination**

Convention Hall 2+3 (4F)

Chairperson : Tae Young Kim, M.D.

How to make questions for neurosurgery written board  
examination?

Jeong-Hyun Hwang (Kyungpook National Univ.)

**Information & Technology Committee****FRIDAY, APRIL 27, 2012**

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11:30-11:35

**Information & Technology Committee** Convention Hall 2+3 (4F)

Introduction of the new Korean Neurosurgical Society homepage

Young Baeg Kim (Information &amp; Technology Committee Chair)

12:00-13:10

**Luncheon Seminars**

Convention Hall 2 (4F)

Chairpersons : Do Heum Yoon, M.D., Jae-Won Doh, M.D.

**[Spine]****Surgical Treatment of Thoracolumbar Spine Fractures**

- LS-A1 New classification of thoracolumbar spine fractures  
Joo Han Kim (Korea University)
- LS-A2 Surgical decision-surgical indication and selection between various surgical approaches  
Dae Hyun Kim (Daegu Catholic University)
- LS-A3 Anterior approach for thoracolumbar spine fractures  
Keung Nyun Kim (Yonsei University)
- LS-A4 Posterior approach for thoracolumbar spine fractures  
Chungkee Chough (The Catholic University of Korea)
- LS-A5 Always thoracolumbar spine fractures need to be fused?  
Seok Won Kim (Chosun University)

12:00-13:10

**Luncheon Seminars**

Convention Hall 3 (4F)

Chairpersons : Do Hoon Kwon, M.D., Yong Sam Shin, M.D.

**[Endovascular]**

- LS-B1 Endovascular coiling of MCA bifurcation aneurysm: does it work?  
Seung Hun Sheen (Hallym University)
- LS-B2 Endovascular coiling of aneurysms presented with mass effect: does it work?  
Soon Chan Kwon (Ulsan University)
- LS-B3 Endovascular therapy for ICA blood blister aneurysm: does it work?  
Hyun-Seung Kang (Seoul National University)

12:00-13:10

**Luncheon Seminars**

Rm. 201~203 (2F)

Chairperson : Chang Jin Kim, M.D.

**[Tumor]****Intraventricular Tumors**

LS-C1 Lateral ventricle

Chae-Yong Kim (Seoul National University)

LS-C2 Third ventricle

Shin-Hyuk Kang (Korea University)

LS-C3 Forth ventricle

Seong-Min Kim (Eulji University)

12:00-13:10

**Luncheon Seminars**

Rm. 208~210 (2F)

Chairperson : Yunkyung Kil, R.N.

**[Nurse]**

LS-D1 Oral care protocol development of patient in ICU

Mi Ran Jung (Yonsei University Severance Hospital)

LS-D2 Caregiver burden and health related quality of life in male spouses who care female stroke patients

Jung-Hee Han (Ulsan University Seoul Asan Medical Center)

LS-D3 The strategy for improvement of nurse's communication skill and interpersonal skill on surgical unit

Eun Lee Ko (Yonsei University Severance Hospital)

LS-D4 Delirium occurrence and sleep quality in the ICU patients

Ae-Ri-Na Nam (Ajou University Medical Center)



12:00-13:10

**Luncheon Seminars**

Rm. 206+207 (2F)

Chairperson : Sang Jin Kim, M.D.

**[Pain]**

**Spinal Pain: Further Understanding**

- LS-E1 Biochemical interpretation of spinal pain  
Young Wook Yoon (Korea University, Physiology)
- LS-E2 Biomechanical interpretation of spinal pain:  
simulation and reality  
Yong Jun Jin (Inje University)
- LS-E3 Anatomical structures important for spinal pain  
Hyoung-Ihl Kim (Gwangju Institute of Science and Technology)
- LS-E4 Pharmacokinetics of drugs in the management of spinal pain  
Dong Ah Shin (CHA University)

## Honam Neurosurgical Society Symposium 1

13:30-14:20

Convention Hall 2+3 (4F)

좌장 : 김수한

S(1) 신명나는 우리 가락의 이해

김광복 (전남대학교 예술대학)

## Honam Neurosurgical Society Symposium 2

14:20-16:00

Convention Hall 2+3 (4F)

Chairperson : Jae Hyoo Kim, M.D.

S(2)-1 A prospect of epilepsy surgery

Ha-Young Choi (Chonbuk National University)

S(2)-2 Specialized brain tumor center: strategies for success

Shin Jung (Chonnam National University)

S(2)-3 The role of neurosurgeon in a major trauma center

Tae Sun Kim (Chonnam National University)

S(2)-4 Present and future of neurosurgeon in practice

HyungJun Kwak (Dong Gwangju Woori Spine Hospital)

16:20-18:00

Convention Hall 2 (4F)

ES-A 【Spine I】

Chairperson : Sung-Min Kim M.D.

- ES-A01 The role of intra-operative monitoring (IOM) in a posterior cervical operation  
The Catholic University of Korea St. Vincent's Hospital  
**HoJin Lee**, Jae Taek Hong, Il Sup Kim, Seung-Ho Yang, Jae Hoon Sung, Byung-chul Son, Sang Won Lee
- ES-A02 Occipitocervical reconstruction for craniovertebral junction anomaly: before and after the era of traction technique  
Seoul National University Hospital<sup>1</sup>, Seoul National University Bundang Hospital<sup>2</sup>  
Chi Heon Kim<sup>1</sup>, **Chun Kee Chung**<sup>1</sup>, Tae-Ahn Jahng<sup>1</sup>, Hyun Jib Kim<sup>2</sup>
- ES-A03 Zero-profile implant for anterior cervical discectomy and fusion: early clinical and radiologic comparison to stand alone cage and plate augmentation  
Yonsei University Gangnam Severance Hospital  
**Kyung Hyun Kim**, Jeong Yoon Park, Keun Su Kim, Dong Kyu Chin, Sunguk Kuh, Yong Eun Cho
- ES-A04 Cause and result of secondary anterior cervical spine fusion in previous anterior cervical spine fusion patients  
Yonsei University Severance Hospital<sup>1</sup>, Hallym University Sacred Heart Hospital<sup>2</sup>  
**Nam Kyu You**<sup>1</sup>, Hyosang Lee<sup>1</sup>, Jae Keun Oh<sup>2</sup>, Tae Yup Kim<sup>1</sup>, Gwi hyun Choi<sup>1</sup>, Seong Yi<sup>1</sup>, Keung Nyun Kim<sup>1</sup>, Do Heum Yoon<sup>1</sup>
- ES-A05 MRI finding of the spinal cord shift after expansive open-door laminoplasty  
Korea University Anam Hospital  
**Jangbo Lee**, Taehyeng Cho, Jungkeun Suh

Chairperson: Geun Sung Song, M.D.

- ES-A06 Clinical and radiological differences of cervical arthroplasty between mild disc degeneration and severe disc degeneration dependent on MRI disc gradings: study in preserved disc space and narrowed disc space  
Inha University Hospital  
**Seung Hwan Yoon**, Do Yeon Kim, Hyeong Chun Park, Chong Oon Park, Yeo Ju Kim, Chang Hyun Oh
- ES-A07 Optimal anterior approach for the cervico-thoracic junction lesions  
Soonchunhyang University Bucheon Hospital  
**Soo Bin Im**, Dong-Sung Shin, Sun-Chul Hwang, Bum-Tae Kim, Won-Han Shin

- ES-A08 Outcomes of plasma disc decompression (PDD) for the symptomatic contained cervical discherniation for 1 year  
Ulsanwoori Hospital  
**Moo Hyuk Kwon**, Sung Hun Park, Kwan Soo Kang
- ES-A09 Clinical outcomes of spinal epidural abscess  
Keimyung University Hospital  
**Hyun Jin Ma**, Insoo Kim
- ES-A10 Clinical features and operative techniques of thoracic disc herniation  
Wooridul Spine Hospital  
**Sang Hoon Jang**, Ji Young Cho, June Ho Lee, Ho-Yeon Lee

16:20-18:00

Convention Hall 3 (4F)

## ES-B 【Vascular·Endovascular】

Chairperson : Bum-Tae Kim, M.D.

- ES-B01 Recurrence of nidus adjacent to the target site of AVM after Gamma Knife radiosurgery  
Ulsan University Asan Medical Center  
**Do Hoon Kwon**, Byung-Duk Kwun, Jae Sung Ahn, Doheui Lee, Hyun Jung Kim
- ES-B02 Unilateral pterional approach for contralateral cerebral aneurysm  
Yonsei University Severance Hospital  
**Jae Whan Lee**, Seung Kon Huh, Kyu Chang Lee
- ES-B03 Intraoperative ultrasonogrphy for brain bulging in ultra-early surgery for ruptured intracranial aneurysms  
Kyungpook National University Hospital  
**Jaechan Park**

Chairperson : Chang Wan Oh, M.D.

- ES-B04 The prediction of contralateral progression in children and adolescents with unilateral Moyamoya disease  
Sungkyunkwan University Samsung Medical Center  
**Ji Hye Song**, Je Young Yeon, Hyung Jin Shin, Doo-Sik Kong, Ho Jun Seol, Jong-Soo Kim, Seung-Chyul Hong, Kwan Park
- ES-B05 One-stage simultaneous removal of hematoma and nidus in ruptured cerebral AVM, is it recommendable?  
The Catholic University of Korea St. Vincent's Hospital  
**Jae Hoon Sung**, Je Hoon Byun, Joon Huh, Il Sup Kim, Seung Ho Yang, Jae Taek Hong, Byung Chul Son, Sang Won Lee

ES-B06 Ruptured distal posterior inferior cerebellar artery aneurysms; clinical presentations and management outcomes  
 Kyung Hee University Gangdong Hospital<sup>1</sup>,  
 Kyung Hee University Gangdong Hospital Radiology<sup>2</sup>  
**Jun Seok Koh**<sup>1</sup>, Sun Joo Lee<sup>1</sup>, Chang Woo Ryu<sup>2</sup>,  
 Seung Hwan Lee<sup>1</sup>, Gook Ki Kim<sup>1</sup>

Chairperson : Young-Joon Kim, M.D.

ES-B07 What are the factors affecting the recurrence of coil embolized aneurysms?: associated factors analysis and stratification of its risk  
 Yonsei University Severance Hospital

**Young Sub Kwon**, Yong Bae Kim, Jae Whan Lee,  
 Kyu Chang Lee, Seung-Kon Huh

ES-B08 Management of ruptured and unruptured intracranial vertebral artery dissecting aneurysms  
 Korea University Ansan Hospital<sup>1</sup>, Korea University Guro Hospital<sup>2</sup>  
**Dong-Jun Lim**<sup>1</sup>, Se-Hoon Kim<sup>1</sup>, Sang-Dae Kim<sup>1</sup>,  
 Jung Yul Park<sup>1</sup>, Sung-Kon Ha<sup>2</sup>, Youn-Kwan Park<sup>2</sup>

ES-B09 Treatment strategies of solitaire thrombectomy in the acute cerebral artery occlusion: several concepts for improving recanalization  
 Dong-Rae Bongseng Hospital

**Chang-Hyun Kim**, Sung Yun Cho, Yu-Seok Choi,  
 Jae-Hyun Shim, Hwa Seung Park, Sang-Hoon Lee

ES-B10 Endovascular treatment of an M2 dissecting aneurysm presenting with subarachnoid hemorrhage - case report  
 CHA University Bundang CHA Hospital

**Tae Gon Kim**, Sang Heum Kim, Kyung Gi Cho,  
 Joong-Uhn Choi, Sang Sup Chung

16:20-18:00

Rm. 208~210 (2F)

ES-C 【Spine II】

Chairperson : Eun-Sang Kim, M.D.

ES-C01 Comparison between anterior lumbar interbody fusion with percutaneous pedicle screw fixation and mini-transforaminal lumbar interbody fusion in adult low grade lytic spondylolisthesis based on sagittal alignment: minimum 5-years follow-up  
 DongRae Wooridul Hospital<sup>1</sup>,

The Catholic University of Korea Seoul St. Mary's Hospital<sup>2</sup>,  
 Chungdam Wooridul Hospital<sup>3</sup>

**Hyeong Seok Oh**<sup>1</sup>, Jin Sung Kim<sup>2</sup>, Sang Ho Lee<sup>3</sup>

- ES-C02 Change in segmental motion after lumbar total disc replacement using Prodisc-L: impact on facet joint degeneration and clinical outcomes  
The Catholic University of Korea Seoul St. Mary's Hospital  
**Jung-Woo Huh**, Myung-Hoon Shin, Kyeong-Sik Ryu, Chun-Kun Park
- ES-C03 Is pain blockage safe? The viewpoint based on nucleus pulposus cell cytotoxicity  
Yonsei University Gangnam Severance Hospital  
**Sunguk Kuh**, Juhyung Moon, Youngsung Kim
- ES-C04 The lumbar disc herniation is the phenomenon of junctional degenerative change?  
DongRae Wooridul Hospital<sup>1</sup>,  
The Catholic University of Korea Seoul St. Mary's Hospital<sup>2</sup>,  
Chungdam Wooridul Hospital<sup>3</sup>  
**Hyeong Seok Oh**<sup>1</sup>, Jin Sung Kim<sup>2</sup>, Sang Ho Lee<sup>3</sup>
- ES-C05 Paraspinal muscle sparing versus percutaneous screw fixation: a comparative enzyme study of tissue injury during the treatment of L4-L5 spondylolisthesis  
Chosun University Hospital  
**Seok Won Kim**, Changil Ju, Seung Myung Lee, Ho Shin
- Chairperson : Sung Woo Roh, M.D.
- ES-C06 Minimally invasive anterior lumbar interbody fusion with stand-alone cage in treatment of degenerative lumbar spinal disease: comparative study with minimally invasive transforaminal lumbar interbody fusion  
The Catholic University of Korea Yeouido St. Mary's Hospital<sup>1</sup>,  
The Catholic University of Korea Seoul St. Mary's Hospital<sup>2</sup>  
**Chungkee Chough**<sup>1</sup>, Won Il Joo<sup>1</sup>, Chun-Kun Park<sup>2</sup>
- ES-C07 Surgical outcome of percutaneous endoscopic interlaminar lumbar discectomy for recurrent disc herniation after open discectomy  
Seoul National University Hospital  
**Chi Heon Kim**, Chun Kee Chung
- ES-C08 Short segment screw fixation without fusion for unstable thoracolumbar and lumbar burst fracture: a prospective cohort study on selective consecutive patients  
Chosun University Hospital  
**Kun Soo Jang**, Seok Won Kim, Seung Myung Lee, Ho Shin
- ES-C09 Results of combined anterior-posterior surgery versus posterior fixation alone for thoracolumbar burst fractures  
Konyang University Hospital  
**Sung-Duk Kim**, Hyun-Woo Kim, Chul-Ku Jung,  
Ho-Gyun Ha, Cheol-Young Lee

ES-C10 Non-fusion, fracture vertebral augmented, percutaneous short segment transpedicular screwing after postural reduction and percutaneous implant removal in neurologically intact unstable thoracolumbar burst fractures  
 Hurisarang Spine Hospital<sup>1</sup>, Chosun University Hospital<sup>2</sup>  
**Hyeun Sung Kim**<sup>1</sup>, Se Jin Jeong<sup>1</sup>, Hyung Jun Ahan<sup>1</sup>,  
 Ki Hyun Jeon<sup>1</sup>, Woo Jin Choi<sup>1</sup>, Kwan Tae Kim<sup>1</sup>, Chang Il Ju<sup>2</sup>,  
 Seok Won Kim<sup>2</sup>, Seung Myung Lee<sup>2</sup>, Ho Shin<sup>2</sup>

16 : 20-18 : 00

Rm. 206+207 (2F)

ES-D 【Tumor · Pediatric】

Chairperson : Jeong-Hyun Hwang, M.D.

ES-D01 Romo1, a modulator of ROS, critically regulates the tumorigenicity of human glioblastoma  
 Korea University Anam Hospital<sup>1</sup>, Korea University<sup>2</sup>  
**Shin-Hyuk Kang**<sup>1</sup>, Mi Ok Yu<sup>1</sup>, Kyung-Jae Park<sup>1</sup>,  
 Na-Hyun Song<sup>1</sup>, Young-Do Yoo<sup>2</sup>, Young-Gu Chung<sup>1</sup>

ES-D02 Clinical outcome of world health organization grade II and III meningiomas  
 Yonsei University Severance Hospital  
**Eui Hyun Kim**, Min Chul Oh, Sun Ho Kim, Jong Hee Chang

ES-D03 Incidence and analysis of risk factors for leptomeningeal carcinomatosis in patients with brain metastases of breast cancer  
 Seoul National University Hospital<sup>1</sup>, National Cancer Center<sup>2</sup>  
**Jong-Myung Jung**<sup>1</sup>, Sang Hyun Lee<sup>2</sup>, Sohee Kim<sup>2</sup>,  
 Jungnam Joo<sup>2</sup>, Kyung Hwan Shin<sup>2</sup>, Heon Yoo<sup>2</sup>,  
 Ho-Shin Gwak<sup>2</sup>, Sang Hoon Shin<sup>2</sup>, Seung Hoon Lee<sup>2</sup>

Chairperson : Jong Hee Chang, M.D.

ES-D04 Surgical experience with skull base approached for benign tumors of craniovertebral junction  
 Chonnam National University Hwasun Hospital  
**Woo-Youl Jang**, Shin Jung, Tae-Young Jung,  
 In-Young Kim, Kyung-Sub Moon

- ES-D05 Isolation of glioma stroma mesenchymal stem-like cells in Korean glioma specimens  
 Yonsei University Severance Hospital<sup>1</sup>,  
 The Catholic University of Korea<sup>2</sup>,  
 The Catholic University of Korea Uijeongbu St. Mary's Hospital<sup>3</sup>,  
 Yonsei University Severance Hospital Radiology<sup>4</sup>,  
 Hanyang University Chemistry<sup>5</sup>,  
 The Catholic University of Korea Seoul St. Mary's Hospital<sup>6</sup>,  
 M.D. Anderson Cancer Center<sup>7</sup>  
**Seok-Gu Kang**<sup>1</sup>, Soyoun Jeon<sup>2</sup>, Ga-Yeong Sim<sup>2</sup>, Hyun-Su Mok<sup>3</sup>,  
 Jin-Kyoung Shim<sup>1</sup>, Bo-Kyung Kim<sup>1</sup>, Hye-Jin Shin<sup>2</sup>, Yong-Min Huh<sup>4</sup>,  
 Su-Jae Lee<sup>5</sup>, Jong Hee Chang<sup>1</sup>, Dong Seok Kim<sup>1</sup>,  
 Yong-Kil Hong<sup>6</sup>, Frederick F Lang<sup>7</sup>
- ES-D06 Combined treatment for large cystic brain metastasis: radiosurgery and stereotactic cyst aspiration  
 Ulsan University Asan Medical Center  
**Do Hoon Kwon**, Jeong Hoon Kim, Won Hyoung Park,  
 Doheui Lee, Hyun Jung Kim
- ES-D07 Usefulness of extracapsular dissection in transsphenoidal approach for functioning pituitary adenomas  
 Inha University Hospital  
**Eunyoung Kim**, Joon Ho Chung, Seung Hwan Yoon,  
 Dong Keun Hyun, Hyunseon Park,  
 Hyung Chun Park, Chong Oon Park
- Chairperson : Young-Shin Ra, M.D.
- ES-D08 Three-dimensional computed tomographic analysis of normal developmental process of cranial sutures in Korean infants  
 Inje University Seoul Paik Hospital<sup>1</sup>, Ajou Unieversity Hospital<sup>2</sup>  
**Sook Young Sim**<sup>1</sup>, Soo Han Yoon<sup>2</sup>
- ES-D09 Cribriform neuroepithelial tumor (CRINET), a rare nonrhabdoid ventricular embryonal tumor - case report  
 Keimyung University Dongsan Medical Center  
**Na-Young Jung**, Dong Won Kim
- ES-D10 Primary intracranial choriocarcinoma with systemic metastasis - a case report  
 Ulsan University Asan Medical Center  
**Seung Won Choi**



16:20-18:00

Rm. 201+202 (2F)

ES-E 【Functional · Pain · Geriatric · Peripheral · Neurotrauma · Others】

Chairperson : Byung-Chul Son, M.D.

- ES-E01 Role of electrochemical recording in vitro and in vivo with WINCS  
 Soonchunhyang University Bucheon Hospital<sup>1</sup>, Mayo Clinic<sup>2</sup>  
**Sun-Chul Hwang**<sup>1</sup>, Bum-Tae Kim<sup>1</sup>, Kendall Lee<sup>2</sup>, Brian Paek<sup>2</sup>
- ES-E02 The efficacy of changes in intraoperative lateral spread response  
 monitoring during microvascular decompression for  
 hemifacial spasm  
 The Catholic University of Korea Uijeongbu St. Mary's Hospital  
**Tae-Kyu Lee**, Jong Yeon Kim, Sang Bok Lee, Do-Sung Yoo,  
 Pil Woo Huh, Kyoung Suok Cho
- ES-E03 The effectiveness of epiduroscopic disc and nueral decompression  
 by using Ho:YAG laser for lumbar disc herniation  
 CheonAn Woori Hospital  
**Kang Taek Lim**, Hae Jin Chang, Gwon Ui Ryu,  
 Geun Chang Kim, Dong Kyun Kim

Chairperson : Myung-Hyun Kim, M.D.

- ES-E04 New vertebral compression fractures after percutaneous  
 hemivertebroplasty in osteoporotic patients  
 Seoul Veterans Hospital  
**Kwan Ho Park**, Sang Moon Hong, Tae Wan Kim,  
 Je-il Ryu, Moon-Pyo Chi, Jae O Kim
- ES-E05 Analysis of revision surgery for failed carpal tunnel release  
 Hallym University Kangdong Sacred Heart Hospital  
**Ji-Soo Ha**, Soo-A Nam, Byung-Moon Cho,  
 Sae-Moon Oh, Se-Hyuck Park
- ES-E06 Perspectives on providing humanitarian care in Bagram Korean  
 Hospital, Afghanistan, supported by civilian sector of Korean  
 government organization and university partnership as a provincial  
 reconstruction project  
 Inje University Ilsan Paik Hospital<sup>1</sup>,  
 Inje University Seoul Paik Hospital Family Medicine<sup>2</sup>,  
 Inje University Industry-Academic Cooperation Foundation<sup>3</sup>  
**Moon-Jun Sohn**<sup>1</sup>, Jae Heon Kang<sup>2</sup>, Kwang Il Kim<sup>3</sup>

Chairperson : Sang Ryong Jeon, M.D.

- ES-E07 Effects of newly designed drainage catheter for patients with chronic subdural hematoma  
Chungnam National University Hospital  
**Bum-Soo Park**, Seung-Won Choi, Shi Hun Song,  
Jin-Young Youm, Hyeon-Song Koh,  
Seon-Hwan Kim, Hyon-Jo Kwon, Chang-woo Kang
- ES-E08 Optic nerve decompression of traumatic optic neuropathy patients - 2 case reports  
Inje University Ilsan Paik Hospital  
**Seong Rok Han**, Gi Taek Yee, Chan-Young Choi,  
Moon-Jun Sohn, Chae Heuck Lee

07:00-08:00

**Breakfast Seminars**

Convention Hall 2 (4F)

Chairpersons : Yong-Tae Jung, M.D., Ha-Young Choi, M.D.

**[Functional]****Memory and Neurosurgery**

- BS-A1 The classification and the nomenclature of memory  
Yong Sook Park (Chung-Ang University)
- BS-A2 Anatomy and pathophysiology of the memory  
Seong-Ho Kim (Yeungnam University)
- BS-A3 Memory and electrical brain stimulation  
Jin Woo Chang (Yonsei University)

07:00-08:00

**Breakfast Seminars**

Convention Hall 3 (4F)

Chairpersons : Hyeonseon Park, M.D., Bum-Tae Kim, M.D.

**[Vascular]****What's New in Cerebral Vascular Malformation**

- BS-B1 Changing concepts of cerebral vascular malformation  
classification and cerebral AVM  
Jae Whan Lee (Yonsei University)
- BS-B2 Cerebral cavernous malformations: from molecular  
pathogenesis to clinical management  
Seung Young Chung (Eulji University)
- BS-B3 Symptomatic capillary telangiectasia: diagnosis and  
management  
Seok-Mann Yoon (Soonchunhyang University)
- BS-B4 Current concepts in developmental venous anomaly  
Jae Seung Bang (Seoul National University)

07:00-08:00

**Breakfast Seminars**

Rm. 208~210 (2F)

Chairpersons : Dong-Gee Kang, M.D., Mou Seop Lee, M.D.

**[Trauma]****Guidelines for Severe Traumatic Brain Injury**

BS-C1 Guidelines for the pre-hospital management of severe traumatic brain injury

Jeong Eun Kim (Seoul National University)

BS-C2 Guidelines for surgical management of traumatic brain injury

Sang Koo Lee (Dankook University)

07:00-08:00

**Breakfast Seminars**

Rm. 206+207 (2F)

Chairpersons : Jae-Kyu Kang, M.D., Jin-Myung Jung, M.D.

**[Pediatric]****Update for Craniosynostosis**

BS-D1 Understanding of natural course

Dong Seok Kim (Yonsei University)

BS-D2 Role of surgery: control of ICP and normal brain development

Hyung Jin Shin (Sungkyunkwan University)

BS-D3 My treatment policy

Soo Han Yoon (Ajou University)

BS-D4 How I do it

Young-Shin Ra (Ulsan University)

07:00-08:00

**Breakfast Seminars**

Rm. 201+202 (2F)

Chairpersons : Jae Hyoo Kim, M.D., Se-Hyuck Park, M.D.

**[Peripheral]****Diagnosis and Surgical Treatment for Cubital Tunnel Syndrome**

- BS-E1 Clinical findings & electrodiagnostic study  
Se-Hoon Kim (Korea University)
- BS-E2 Imaging study (USG, MR, MR neurography)  
Sang-Yong Lee (Chonbuk National University, Radiology)
- BS-E3 Surgical treatment I. simple decompression including minimal incision  
Yong-Jun Cho (Hallym University)
- BS-E4 Surgical treatment II. transposition & epicondylectomy  
Jang-Chul Lee (Bareundeung Neurosurgical Clinic)

07:00-08:00

**Breakfast Seminars**

Rm. 203+204 (2F)

Chairpersons : Chang Hwa Choi, M.D., Young Jin Lim, M.D.

**[Geriatric]****Surgical Strategies in Elderly Patients**

- BS-F1 Surgical strategies in elderly patients in functional & stereotactic disorder field  
Moon-Chan Kim (The Catholic University of Korea)
- BS-F2 Surgical strategies in elderly patients with cerebrovascular disorders  
Hyoung Kyun Rha (The Catholic University of Korea)
- BS-F3 Surgical strategies in elderly patients with spinal disorders  
Young Baeg Kim (Chung-Ang University)

08:10-09:50

Convention Hall 2 (4F)

TP-A 【Spine I】

Chairperson : Hyoung-Chun Park, M.D.

- TP-A01 A biomechanical comparison of three different posterior fixation constructs used for C6-C7 cervical spine immobilization: a finite element study  
The Catholic University of Korea St. Vincent's Hospital<sup>1</sup>,  
Rush University<sup>2</sup>  
**Jae Taek Hong**<sup>1</sup>, Muhammad Qasim<sup>2</sup>, Raghu N Natarajan<sup>2</sup>
- TP-A02 Long-term effect on adjacent segment motion after posterior cervical foraminotomy  
Hallym University Kangnam Sacred Heart Hospital<sup>1</sup>,  
Chung-Ang University Hospital<sup>2</sup>  
**Tack Geun Cho**<sup>1</sup>, Young Baeg Kim<sup>2</sup>,  
Seung Won Park<sup>2</sup>, Jae Gon Moon<sup>1</sup>
- TP-A03 The relationship between preoperative and postoperative segmental range of motion in patients underwent cervical artificial disc replacement  
Hallym University Sacred Heart Hospital<sup>1</sup>,  
Yonsei University Severance Hospital<sup>2</sup>,  
Sungkyunkwan University Kangbuk SamSung Hospital<sup>3</sup>  
**Jae Keun Oh**<sup>1</sup>, Seong Yi<sup>2</sup>, Yoon Ha<sup>2</sup>, Keung Nyun Kim<sup>2</sup>,  
Do Heum Yoon<sup>2</sup>, Hyunchul Shin<sup>3</sup>
- TP-A04 Results and outcomes of neurosurgical treatment for cervical spine metastases: when is an appropriate time to perform the surgery considering preoperative factors?  
The Leon Wiltse Memorial Hospital<sup>1</sup>,  
Sungkyunkwan University Samgsung Medical Hospital<sup>2</sup>  
**Dong-Geun Lee**<sup>1</sup>, Sun-Ho Lee<sup>2</sup>, Eun Sang Kim<sup>2</sup>,  
Whan Eoh<sup>2</sup>, Sung Soo Chung<sup>2</sup>, Chong Suh Lee<sup>2</sup>

Chairperson : Won-Han Shin, M.D.

- TP-A05 Brachial plexus tumors in a consecutive series of twenty two patients  
Ajou University Hospital  
**Sang Hyun Kim**
- TP-A06 The neuroprotective effect of treatment of valproic acid in acute spinal cord injury  
Kyungpook National University Hospital  
**Dae-Chul Cho**, Song-Hee Yu, Kyoung-Tae Kim, Joo-Kyung Sung
- TP-A07 Treatment effect of mesenchymal stem cell implantaion in degenerative intervertebral disc of rat; when is the appropriate therapeutic time?  
Hallym University Hangang Sacred Heart Hospital  
**Je Hoon Jeong**, Il Young Shin,  
Seung-Myung Moon, Hyungsik Hwang

- TP-A08 Reoperation rate after surgical procedure for lumbar herniated intervertebral disc disease: national-wide cohort study  
Seoul National University Hospital  
Chi Heon Kim, **Chun Kee Chung**
- TP-A09 Spine surgeon's kinematics during discectomy: according to operating table height and the methods to visualize the surgical field  
Yonsei University Gangnam Severance Hospital  
**Jeong Yoon Park**, Kyung Hyun Kim, Sung Uk Kuh, Dong Kyu Chin, Keun Su Kim, Youg Eun Cho, Hyo Suk Park

08:10-09:50

Convention Hall 3 (4F)

## TP-B 【Vascular·Endovascular】

Chairperson : Seung-Chyul Hong, M.D.

- TP-B01 Factors which defined the 'Spot sign' in predicting hematoma expansion  
Yonsei University Wonju College of Medicine  
**Jiwoong Oh**, Kum Whang, Hun Joo Kim, Sunki Hong, Chul Hu, Jhin Soo Pyen, Hyun Ho Jung, Brain Research Group
- TP-B02 Seizures after spontaneous intracerebral hemorrhage  
Dongguk University Ilsan Hospital  
**Kwang-Moo Woo**, Seung Yeob Yang, Byong Cheol Kim, Keun-Tae Cho, Seung-Koan Hong, Jae Hyo Park
- TP-B03 Characteristics and surgical considerations in treatment of the proximal (A1) segment of anterior cerebral artery aneurysms  
Yonsei University Gangnam Severance Hospital  
**Jun-Suk Huh**, Jin-Young Jung, Chang-Ki Hong, Jin Yang Joo

Chairperson : Sung Don Kang, M.D.

- TP-B04 Treatment of single unruptured middle cerebral artery bifurcation aneurysm  
Seoul National University Hospital<sup>1</sup>,  
Seoul National University Radiology<sup>2</sup>  
**Kang Min Kim**<sup>1</sup>, Jeong Eun Kim<sup>1</sup>, Hyun-Seung Kang<sup>1</sup>, Mun Hee Han<sup>2</sup>, Jeong Gyun Kim<sup>1</sup>, Young-Je Son<sup>1</sup>, Jae Seung Bang<sup>1</sup>, Chang Wan Oh<sup>1</sup>
- TP-B05 Combined pterional and interhemispheric approach for the specific anterior communicating aneurysms  
Soonchunhyang University Bucheon Hospital  
**Bum-Tae Kim**, Sun-Chul Hwang, Dong-Seong Shin, Won-Han Shin, Soo-Bin Im, Vuthy Din

## TOP10 Paper Presentation SATURDAY, APRIL 28, 2012

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- TP-B06 Analysis of the diffuse type AVM treated with Gamma Knife radiosurgery: comparison study with compact type AVM in early experiences  
Ulsan University Asan Medical Center  
**Jung Ho Yun**, Jung Cheol Park, Jae Sung Ahn,  
Byung Duk Kwun, Do Hoon Kwon
- Chairperson : Min Woo Baik, M.D.
- TP-B07 How to teach cerebral angiography to beginners?; proposal of easy learning procedure protocol, named as "8S"  
The Catholic University of Korea St. Vincent's Hospital  
**Jae Hoon Sung**, Je Hoon Byun, Joon Huh, Il Sup Kim,  
Seung Ho Yang, Jae Taek Hong, Byung Chul Son, Sang Won Lee
- TP-B08 Evaluation of thromboembolic events associated with electrolytic detachment of Guglielmi detachable coils and target coils: comparison with use of diffusion-weighted MR imaging  
The Catholic University of Korea Seoul St. Mary's Hospital<sup>1</sup>,  
Ajou University Hospital<sup>2</sup>, Yonsei University Severance Hospital<sup>3</sup>  
**Myeong Jin Kim**<sup>1</sup>, Yong Cheol Lim<sup>2</sup>, Byung Moon Kim<sup>3</sup>,  
Bum-Soo Kim<sup>1</sup>, Yong Sam Shin<sup>1</sup>
- TP-B09 Midterm follow-up angiographic outcome of sole stent technique  
Dankook University Hospital  
**Young-Joon Kim**, Jung Ho Ko, Young Jin Kim
- TP-B10 Curvature change of the parent arteries after stent-assisted coil embolization of the wide-necked intracranial bifurcation aneurysms  
Kangwon National University Hospital<sup>1</sup>,  
Seoul National University Hospital<sup>2</sup>  
**Won-Sang Cho**<sup>1</sup>, Hyun-Seung Kang<sup>2</sup>, Jeong Eun Kim<sup>2</sup>,  
Seung Jin Lee<sup>2</sup>, Young Dae Cho<sup>2</sup>, Moon Hee Han<sup>2</sup>

08:10-09:50

Rm. 208~210 (2F)

### TP-C 【Spine II】

Chairperson : Chun Kee Chung, M.D.

- TP-C01 The effects of posterior COG changes in patients with chronic LBP to extension strength, balance and lumbosacral angle  
Goodspine Hospital<sup>1</sup>, Goodspine Hospital Institute<sup>2</sup>  
**Jinkyu Park**<sup>1</sup>, Iltae Son<sup>1</sup>, Duck-Hyung Ahn<sup>1</sup>, Daehun Kim<sup>2</sup>
- TP-C02 Relation of facet tropism to progressive facet arthrosis after lumbar total disc replacement using Prodisc-L<sup>®</sup>  
The Catholic University of Korea Seoul St. Mary's Hospital  
**Myung-Hoon Shin**, Jung-Woo Huh,  
Kyeong-Sik Ryu, Chun-Kun Park



- TP-C03 Fragmentectomy versus conventional microdiscectomy in single-level lumbar disc herniations; comparison of clinical results and recurrence rates  
Gwangju Saewoori Spine Hospital  
**Geum-Seong Baek**, Yeon-Seong Kim, Min-Cheol Lee, Jae-Wook Song, Sang-Kyu Kim, In-Hwan Kim
- TP-C04 The factors associated with early relapse after posterolateral percutaneous endoscopic lumbar discectomy  
Hurisarang Spine Hospital<sup>1</sup>, Chosun University Hospital<sup>2</sup>  
**Hyeun Sung Kim**<sup>1</sup>, Se Jin Jeong<sup>1</sup>, Hyeong Jun Ahn<sup>1</sup>, Ki Hyun Jeon<sup>1</sup>, Woo Jin Choi<sup>1</sup>, Kwan Tae Kim<sup>1</sup>, Chang Il Ju<sup>2</sup>, Seok Won Kim<sup>2</sup>, Seung Myung Lee<sup>2</sup>, Ho Shin<sup>2</sup>
- TP-C05 The effect of changes of instrumented segmental lordosis and lumbar lordosis on the adjacent segment degeneration during mid-term follow-up after the L4/5 PLIF  
Nanoori Hospital  
**Wootack Rhee**, Woo-Jae Kim, Seongil Ha, Jae Hyeon Lim, Il Tae Jang
- Chairperson : Chun-Kun Park, M.D.
- TP-C06 Comparison between the accuracy of percutaneous and open pedicle screw fixations in lumbosacral fusion  
DongRae Wooridul Hospital<sup>1</sup>, Chungdam Wooridul Hospital<sup>2</sup>, The Catholic University of Korea Seoul St. Mary's Hospital<sup>3</sup>  
**Hyeong Seok Oh**<sup>1</sup>, Soon-Woo Hong<sup>2</sup>, Jin-Sung Kim<sup>3</sup>, Wei-Chiang Liu<sup>2</sup>, Sang-Ho Lee<sup>2</sup>
- TP-C07 Analysis of complication rate related to venography patterns on the vertebroplasty and usefulness of balloon kyphoplasty to prevent complications  
Dong-A Hospital  
**Seung Gwon Seo**, Jung Kil Choi
- TP-C08 Work apportionment score: a design to evaluate the apportionment of the work in lumbar disc herniations  
Soonchunhyang University Chonan Hospital  
**Kyeong-Seok Lee**
- TP-C09 Early outcome of the direct lateral lumbar interbody fusion (DLIF) procedure in degenerative lumbar disease: analysis of 24 consecutive cases  
Yonsei University Severance Hospital  
**Hyosang Lee**, Nam Kyu You, Tae Yup Kim, Gwi Hyun Choi, Seong Yi, Do Heum Yoon, Keung Nyun Kim
- TP-C10 Surgical outcomes for Bertolotti's syndrome: L5 transverse processotomy  
Chosun University Hospital  
**Ho Shin**, Bok Hyun Cho, Seok Won Kim, Seung Myung Lee

08:10-09:50

Rm. 206+207 (2F)

## TP-D 【Tumor·Pediatric】

Chairperson : Seung Heon Cha, M.D.

- TP-D01 Salvage Gamma Knife stereotactic radiosurgery followed by bevacizumab for recurrent glioblastoma multiforme - a case-control study  
Korea University Anam Hospital<sup>1</sup>,  
University of Pittsburgh Medical Center<sup>2</sup>  
**Kyung-Jae Park**<sup>1</sup>, Kondziolka Douglas<sup>2</sup>
- TP-D02 The various treatment strategies considering the multiplicity of multiple intracranial meningiomas: 10 years experience in single institute  
Chonnam National University Hwasun Hospital  
**Tae-Wan Kim**, Shin Jung, Woo-Yeol Jang,  
Tae-young Jung, Kyung-Sub Moon, In-Young Kim
- TP-D03 Motor evoked potential monitoring with supratentorial tumor surgery  
The Catholic University of Korea St. Vincent's Hospital  
**Seung-Ho Yang**, Ki Hong Choi, Je Hoon Byun,  
Ho Jin Lee, Il Sup Kim, Jae Taek Hong,  
Jae Hoon Sung, Byung-chul Son, Sang Won Lee
- TP-D04 Prognostic implications of DNA damage response pathway in glioblastoma  
Sungkyunkwan University Samsung Medical Center<sup>1</sup>,  
Seoul National University Hospital Anatomy<sup>2</sup>  
**Sang-Bong Chung**<sup>1</sup>, Ho Jun Seol<sup>1</sup>, Juyoun Jin<sup>1</sup>, Kyeong Min Joo<sup>2</sup>,  
Jong-Hyun Kim<sup>1</sup>, Jung-Il Lee<sup>1</sup>, Do-Hyun Nam<sup>1</sup>

Chairperson : In-Young Kim, M.D.

- TP-D05 The effectiveness and limitation of mobile CT  
CHA University Bundang CHA Hospital  
**Seungman Ha**, Kyung Gi Cho, Young Seok Park, Dong Ah Shin,  
In Bo Han, Tae Gon Kim, Sang Sup Chung
- TP-D06 Ginsenoside Rg3-induced apoptosis in the human glioblastoma U87MG cells through MEK signaling pathway and reactive oxygen species  
Pusan National University Hospital  
**Won Ho Cho**, Byung Kwan Choi, In Ho Han, Seung Heon Cha
- TP-D07 Radiological classification of posterior fossa hemangioblastomas  
Yonsei University Severance Hospital  
Eui Hyun Kim, **Min Chul Oh**, Sun Ho Kim, Jong Hee Chang

TP-D08 Changes of diffusion parameters of the corticospinal tract in high-grade glioma patients; changes of cerebral blood volume of internal capsule posterior limb and motor cortex in high-grade glioma patients  
Inje University Seoul Paik Hospital<sup>1</sup>,  
Seoul National University Hospital<sup>2</sup>  
**Myoung Soo Kim**<sup>1</sup>, Chun-Kee Chung<sup>2</sup>, Hee-Won Jung<sup>2</sup>,  
Chul-Kee Park<sup>2</sup>, Chi Heon Kim<sup>2</sup>, June Sic Kim<sup>2</sup>

Chairperson : Jae-Kyu Kang, M.D.

TP-D09 Simultaneous isolation of spheroid cells and mesenchymal stem-like cells in primitive neuroectodermal tumor specimen  
Yonsei University Severance Hospital<sup>1</sup>,  
The Catholic University of Korea Seoul St. Mary's Hospital<sup>2</sup>,  
The Catholic University of Korea Uijeongbu St. Mary's Hospital<sup>3</sup>,  
Seonam University Medical Science<sup>4</sup>,  
Hanyang University Chemistry<sup>5</sup>,  
Yonsei University Severance Hospital Radiology<sup>6</sup>  
**Seok-Gu Kang**<sup>1</sup>, Hye-Jin Shin<sup>2</sup>, Jin-Kyoung Shim<sup>1</sup>, Bo-Kyoung Kim<sup>1</sup>,  
Hyun-Su Mok<sup>3</sup>, Hyun-Do Shin<sup>4</sup>, Su-Jae Lee<sup>5</sup>, Yong-Min Huh<sup>6</sup>,  
Jong Hee Chang<sup>1</sup>, Dong Seok Kim<sup>1</sup>, Yong-Kil Hong<sup>2</sup>

TP-D10 Comparative morphometric study of the postsrior cranial fossa in Chiari malformation Type I  
Hallym University Hangang Sacred Heart Hospital<sup>1</sup>,  
Hallym University Kangdong Sacred Heart Hospital<sup>2</sup>,  
Hallym University Sacred Heart Hospital<sup>3</sup>,  
Hallym University Chuncheon Sacred Heart Hospital<sup>4</sup>,  
Hallym University Kangnam Sacred Heart Hospital<sup>5</sup>  
**Han Ga Wi Nam**<sup>1</sup>, Je Hoon Jeong<sup>1</sup>, Hyungsik Hwang<sup>1</sup>,  
Se-Hyuck Park<sup>2</sup>, Joon Ho Song<sup>3</sup>, Yong-Jun Cho<sup>4</sup>, Jae Gon Moon<sup>5</sup>

08 : 10-09 : 50

Rm. 201+202 (2F)

TP-E 【Functional Pain】

Chairperson : Kyung Jin Lee, M.D.

TP-E01 Motor cortex stimulation in a realistic head model  
GIST<sup>1</sup>, Presbyterian Medical Center<sup>2</sup>  
**Donghyeon Kim**<sup>1</sup>, Sung-Chan Jun<sup>1</sup>, Hyoung-Ihl Kim<sup>1</sup>, Hyo-Jun Kim<sup>2</sup>

TP-E02 Endoscope-assisted microvascular decompression for hemifacial spasm  
Kyung Hee University GangDong Hospital<sup>1</sup>,  
Kyung Hee University Hospital<sup>2</sup>  
**Seung hwan Lee**<sup>1</sup>, Jun Seok Koh<sup>1</sup>, Sunjoo Lee<sup>1</sup>,  
Gook Ki Kim<sup>1</sup>, Young Jin Lim<sup>2</sup>

## TOP10 Paper Presentation SATURDAY, APRIL 28, 2012

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- TP-E03 Recurred hemifacial spasm after microneurovascular decompression in patients with initially successful microneurovascular decompression: more than 5 year follow up results for consecutive series of 720 patients  
Yonsei University Severance Hospital  
**Won Seok Chang**, Joo Pyung Kim, Jong Chul Chung, Jin Woo Chang  
  
Chairperson : Ha-Young Choi, M.D.
- TP-E04 Spinal stereotactic radiosurgery for primary and metastatic tumors  
Inje University Ilsan Paik Hospital<sup>1</sup>, Radiology<sup>2</sup>, Hematooncology<sup>3</sup>  
**Moon-Jun Sohn**<sup>1</sup>, Yoon Joon Hwang<sup>2</sup>, Hye Ran Lee<sup>3</sup>,  
Dong Joon Lee<sup>1</sup>, Chae Hyuck Lee<sup>1</sup>
- TP-E05 The radiosurgical technique and clinical outcomes for brainstem arteriovenous malformation  
Kyung Hee University Hospital  
Hyukjai Choi, Young Jin Lim, Seok Keun Choi, Won Seop Seo,  
**Sung-Bum Kim**, Bong Jin Park, Tae Sung Kim, Bong Arm Rhee
- TP-E06 Radiosurgery for unruptured cerebral AVMs: focused on long-term seizure outcome  
Dongguk University Ilsan Hospital<sup>1</sup>,  
Seoul National University Hospital<sup>2</sup>  
**Seung Yeob Yang**<sup>1</sup>, Dong Gyu Kim<sup>2</sup>, Hyun-Tai Chung<sup>2</sup>, Sun Ha Paek<sup>2</sup>  
  
Chairperson : Jung Yul Park, M.D.
- TP-E07 Experience of spinal cord stimulation in cervical spine for chronic upper extremity pain  
The Catholic University of Korea St. Vincent's Hospital<sup>1</sup>,  
Myungji St. Mary's Hospital<sup>2</sup>, Pohang St. Mary's Hospital<sup>3</sup>  
**Byung-chul Son**<sup>1</sup>, Duk-Ryung Kim<sup>1</sup>, Hyung-suk Kim<sup>2</sup>,  
Woo-Young Jang<sup>3</sup>, Seung-Ho Yang<sup>2</sup>, Jae-Taek Hong<sup>1</sup>,  
Jae-Hoon Sung<sup>1</sup>, Sang-Won Lee<sup>1</sup>
- TP-E08 Selective peripheral denervation for spasmodic laterocollis  
Maryknoll Medical Center  
**Myung-Ki Lee**, Seon-Tak Jin, Il Seo, Seong-Woo Lee,  
Ho-Sang Kim, Jeong-Ho Kim, Yun-Suk Kim, Sang-Yong Kim
- TP-E09 The clinical efficacy of bone cement augmentation in the management of chronic symptomatic osteoporotic compression fracture  
Chosun University Hospital  
**Hee Yul Kim**, Seok Won Kim, Chang Il Ju,  
Seung Myung Lee, Ho Shin
- TP-E10 Clinical effect of spinal cord stimulation in the treatment of chronic neuropathic pain  
Hanyang University Medical Center  
**Hyun Cho**, Young Soo Kim, Yu Deok Won

## TOP10 Paper Presentation SATURDAY, APRIL 28, 2012

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08:10-09:50

Rm. 203+204 (2F)

### TP-F 【Geriatric · Peripheral · Neurotrauma · Others】

Chairperson : Chang Hwa Choi, M.D.

TP-F01 Effects of PME-88 in the amyotrophic lateral sclerosis mouse model  
Presbyterian Medical Center

**Ji Sun Oh**, Hyojoon Kim

TP-F02 Changes of spinal surgery for geriatric patient through two decades  
in single institution

Kyung Hee University Hospital

**Sung-Bum Kim**, Min Ki Kim, Seok Keun Choi, Bong Jin Park,  
Tae Sung Kim, Bong Arm Rhee, Young Jin Lim

TP-F03 Neuroregenerative effects of a mixture of Wnt3a-secreting  
fibroblasts and alginate in a rat spinal cord injury model

Ulsan University Hospital<sup>1</sup>, Ulsan University Asan Medical Center<sup>2</sup>

**Joongkee Min**<sup>1</sup>, Se Rim Baek<sup>1</sup>, Jin Hoon Park<sup>2</sup>, Sang Ryong Jeon<sup>2</sup>

Chairperson : Dongho Kim, M.D.

TP-F04 The effect of phosphodiesterase 4 specific inhibitor in the rat model  
of spinal nerve ligation

Chosun University Hospital

**Kun Soo Jang**, Chang Il Ju, Seok Won Kim,

Seung Myung Lee, Ho Shin

TP-F05 The intra-operative dynamic pressure measurement in carpal tunnel  
syndrome in different wrist position: correlation with clinical sign,  
neurologic test and electrodiagnostic findings

The Catholic University of Korea St. Vincent's Hospital

**Ho Jin Lee**, Jae Taek Hong, Byung-chul Son, Il Sup Kim,

Seung-Ho Yang, Jae Hoon Sung, Sang Won Lee

TP-F06 Axillary nerve injury associated with sports

Hanyang University Guri Hospital

**Sangkook Lee**, Jinhwan Cheong, Jae Min Kim, Choong Hyun Kim

Chairperson : Hee-Jin Yang, M.D.

TP-F07 MRI and clinical improvement after MSC injection in the human  
spinal cord injury

Ulsan University Asan Medical Center

**Jin Hoon Park**, Sang Ryong Jeon

TP-F08 Evaluation of preventable trauma death using trauma and injury  
severity score(TRISS) method in neurotrauma patients

Chonnam National University Hospital

**Bo-Ra Seo**, Hyung-Sik Moon, Jung-Kil Lee, Jae-Won Jang,

Tae-Sun Kim, Jae-Hyoo Kim, Soo-Han Kim

- TP-F09 Hypoxia increases VEGF secretion of mesenchymal stem cells through HIF-1 $\alpha$  induction  
Korea University Anam Hospital<sup>1</sup>,  
Ulsan University Asan Medical Center Anesthesia<sup>2</sup>,  
Korea University Medical Center Ansan Hospital<sup>3</sup>,  
Korea University Medical Center Guro Hospital<sup>4</sup>  
**Dong-Hyuk Park**<sup>1</sup>, Dong-Bin Back<sup>1</sup>, Jea-Young Lee<sup>1</sup>,  
Jeong-Hyun Lee<sup>2</sup>, Kyung Jae Park<sup>1</sup>, Shin-Hyuk Kang<sup>1</sup>,  
Dong-Jun Lim<sup>3</sup>, Taek Hyun Kwon<sup>4</sup>,  
Tai-Hyoung Cho<sup>1</sup>, Yong-Gu Chung<sup>1</sup>
- TP-F10 The effect of carbon nanotube in proliferation and migration of rat neuronal cells  
Pusan National University Hospital  
**Dong-Wan Kang**, In Ho Han, Won Ho Cho,  
Byung Kwan Choi, Seung Heon Cha

10:10-12:10

Convention Hall 2 (4F)

## SS-A 【Spine I】

Chairperson : Kyoung Suok Cho, M.D.

- SS-A01 Factors affecting large developed anterior subsidence after standalone cage assisted anteriorcervical fusion and changes of cervical sagittal alignment  
Chonnam National University Hospital  
**Sang-Deok Kim**, Jung-Kil Lee, Jae-Won Jang, Hyung Sik Moon, Bo-Ra Seo, Tae Sun Kim, Jae Hyoo Kim, Soo Han Kim
- SS-A02 Multi-level ACDF vs cervical hybrid arthroplasty using prestige  
Sungkyunkwan University Samsung Medical Center  
**Sungjin Kim**, Eun-Sang Kim, Sun-Ho Lee, Whan Eoh
- SS-A03 Comparison of motion changes and clinical outcomes between cervical disc replacement and anterior cervical discectomy and fusion in single level cervical degenerative disease  
Chonnam National University Hospital<sup>1</sup>,  
Dong-Gwangju Woori Hospital<sup>2</sup>  
**Jae-Won Jang**<sup>1</sup>, Jung-Kil Lee<sup>1</sup>, Soo-Han Kim<sup>1</sup>, Dae-Yong Kim<sup>2</sup>
- SS-A04 Combined open door laminoplasty with unilateral screw fixation for unstable multilevel cervical spondylotic stenosis - a preliminary report  
Gachon University Gil Hospital  
**Seong Son**, Sang-Gu Lee, Woo-Kyung Kim, Chan Woo Park
- SS-A05 Effects of a new stand-alone cervical anterior interbody fusion device (anchored spacer type) compared with anterior cervical discectomy and fusion with peek cage and plate: preliminary results  
Dae-Ah Hando General Hospital  
**Poong Gi Ahn**, Byung-Ho Jin, Dong Youp Lee, Jong Hyun Choi

Chairperson : Seung Chul Rhim, M.D.

- SS-A06 Surgical outcomes of metastatic spinal tumors in cervicothoracic junction  
Sungkyunkwan University Samsung Medical Center<sup>1</sup>,  
Sungkyunkwan University Samsung Medical Center  
Orthopedic Surgery<sup>2</sup>  
**Sungjin Kim**<sup>1</sup>, Sun-Ho Lee<sup>1</sup>, Eun-Sang Kim<sup>1</sup>,  
Whan Eoh<sup>1</sup>, Sung Soo Chung<sup>2</sup>, Chong Suh Lee<sup>2</sup>
- SS-A07 Intramedullary schwannomas: long-term outcomes of ten operated cases  
Seoul National University Hospital<sup>1</sup>,  
Seoul National University Bundang Hospital<sup>2</sup>  
**Chun Kee Chung**<sup>1</sup>, Soo Eon Lee<sup>1</sup>, Tae-Ahn Jahng<sup>1</sup>, Hyun-Jib Kim<sup>2</sup>

- SS-A08    Comparison of clinical and radiologic results after anterior reconstruction using titanium mesh or expandable cages for treatment of thoracolumbar burst fracture  
Chonnam National University Hospital  
**Tae-Wan Kim**, Jae-Won Jang, Hyung-Sik Moon, Bo-Ra Seo, Jung-Kil Lee, Tae-Sun Kim, Jae-Hyoo Kim, Soo-Han Kim
- SS-A09    Prevalence and type of degenerative marrow (Modic) changes in the thoracic spine  
Pusan National University Hospital  
**Jaе meen Lee**, In Ho Han, Kyoung Hyup Nam, Won Ho Cho, Byung Kwan Choi, Seung Heon Cha
- SS-A10    An influence of the amount of cement on outcomes of percutaneous kyphoplasty and vertebroplasty in osteoporotic vertebral compression fractures  
Korea University Anam Hospital  
**Jinkyung Park**, Taehyung Cho, Joon Young Lee, Jung Keun Suh, Jang Bo Lee, Kyung Jae Park
- Chairperson : Young Baeg Kim, M.D.
- SS-A11    Effect of bone cement volume and stiffness on occurrences of adjacent vertebral fractures after vertebroplasty  
Gwangju Institute of Science and Technology<sup>1</sup>,  
CHA University Bundang CHA Hospital<sup>2</sup>  
**Jin-Myung Kim**<sup>1</sup>, Dong Ah Shin<sup>2</sup>, Dong-Hak Byun<sup>1</sup>, So-Hee Kim<sup>1</sup>, Hyoung-Ihl Kim<sup>1</sup>
- SS-A12    Usefulness of MDCT in detection osteoporotic spinal compression fracture  
Konkuk University Chungju Hospital  
**Keunsoo Won**, Jun-Hyung Cho, Yu-Shik Shim, Young-Sun Chung
- SS-A13    The tissue hypoxic environment cause by spinal cord injury was rapidly recovered by co-transplantation of endothelial cells  
Yonsei University Severance Hospital  
**Jinsoo Oh**, Keung Nyun Kim, Do Heum Yoon, Yoon Ha
- SS-A14    Partial inhibition of TGF-beta signaling by a peptide has anabolic effect on intervertebral disc cells  
Sungkyunkwan University Kangbuk Samsung Hospital<sup>1</sup>, Ensoltex<sup>2</sup>  
**Young-Joon Kwon**<sup>1</sup>, Je-Wook Lee<sup>2</sup>, Eun-Joung Moon<sup>2</sup>, Ok-Soon Kim<sup>2</sup>, Yu-Sam Won<sup>1</sup>, Hyunchul Shin<sup>1</sup>, Jae-Young Yang<sup>1</sup>, Chun-Sik Choi<sup>1</sup>, Hae-Jin Kim<sup>2</sup>
- SS-A15    Clinical outcomes of spinal epidural abscess  
The Catholic University of Korea Uijeongbu St. Mary's Hospital  
**Kyoung Suok Cho**, Sang Bok Lee, JongYeon Kim, Tae-Kyu Lee, Do-Sung Yoo, Pil Woo Huh



10:10-12:10

Convention Hall 3 (4F)

## SS-B 【Vascular·Endovascular】

Chairperson : Hyeonseon Park, M.D.

- SS-B01    Clip repositioning in complex aneurysm; the role of intra-operative MEP monitoring  
Ulsan University Asan Medical Center  
**Jung Cheol Park**, Jae Sung Ahn, Eun Suk Park, Jung-Ho Yun, Do Hoon Kwon, Byung Duk Kwun, Chang Jin Kim
- SS-B02    Effect of bypass surgery on the prevention of further hemorrhagic stroke on Hemorrhagic variety of adult-Moyamoya disease  
Yeungnam University Medical Center<sup>1</sup>,  
Ulsan University Asan Medical Center<sup>2</sup>  
**Young-Jin Jung**<sup>1</sup>, DongWoo Yu<sup>1</sup>, Chul Hoon Chang<sup>1</sup>, Jae Sung Ahn<sup>2</sup>, Byung-Yon Choi<sup>1</sup>
- SS-B03    Relationship of C-reactive protein with transcranial doppler in the cerebral vasospasm following aneurysmal subarachnoid hemorrhage  
Chung-Ang University Hospital  
**Sung-Hwan Hwang**, Yong-Sook Park, Jeong-Taik Kwon, Taek-Kyun Nam, Byung-Kook Min, Sung-Nam Hwang

Chairperson : Pil Woo Huh, M.D.

- SS-B04    Interhemispheric (IH) approach for anterior communicating artery (AcomA) aneurysm  
Inje University Busan Paik Hospital  
**YoungGyun Jeong**, SeongTae Kim, YongTae Jung, MooSeong Kim, SeYoung Pyo, SeongHwa Paeng, KeunSoo Lee
- SS-B05    An innovative method for detecting surgical errors using indocyanine green angiography during carotid endarterectomy: a preliminary investigation  
Seoul National University Bundang Hospital<sup>1</sup>,  
Seoul National University Boramae Hospital<sup>2</sup>  
**Chang-Hyun Lee**<sup>1</sup>, Young Seob Chung<sup>2</sup>, Hee-Jin Yang<sup>2</sup>, Young-Je Son<sup>2</sup>, Sang Hyung Lee<sup>2</sup>
- SS-B06    Clinical utility of quantitative magnetic resonance angiography in treatment decision making for ischemic cerebrovascular disorders  
The Catholic University of Korea Bucheon St. Mary's Hospital  
**Ik Seong Park**, Changju Lee, Seong-Rim Kim, Min Woo Baik
- SS-B07    Analysis of risk factors for latent period bleeding in patients treated with radiosurgery for intracranial arteriovenous malformations  
Ulsan University Asan Medical Center  
Do Hoon Kwon, Byung-Duk Kwun, Jae Sung Ahn, Doheui Lee, Hyun Jung Kim, Jung Won Han, **Jung Ho Yun**

Chairperson : Tae Sun Kim, M.D.

- SS-B08    Transient neurologic deficiencies after extracranial to intracranial (EC-IC) bypass surgery, is it a “hemodynamic competition”?  
Kyung Hee University Hospital  
**Seok Keun Choi**, Young Jin Lim, Hee Sub Shin, Sung Bum Kim, Bong Jin Park, Tae Sung Kim, Bong Arm Rhee
- SS-B09    Transradial cerebral angiography monitored with doppler ultrasonography  
The Catholic University of Korea St. Paul's Hospital  
**Won Ki Yoon**, Choel Ji, Jae Kuen Ahn, Han-Yong Huh
- SS-B10    Analysis of risk factors of spontaneous intracerebral hemorrhage in young aged patients  
Hanyang University Medical Center  
**Yu Deok Won**, Young Soo Kim, Suck Jun Oh, Yong Ko, Koang Hum Bak, Hyeong-Joong Yi, Hyoung-Joon Chun, Ho Jeong Kim

Chairperson : Sung-Ki Ahn, M.D.

- SS-B11    Clinical and radiologic results of endovascular coil embolization for cerebral aneurysm in patients who were less than 40 year-old  
Ulsan University Hospital  
**Bok Yong Ha**, Soon Chan Kwon, Hong Bo Sim, In Uk Lyo, Jun Bum Park
- SS-B12    Results of intraarterial recanalization therapy in patients with acute ischemic stroke  
The Catholic University of Korea Bucheon St. Mary's Hospital<sup>1</sup>,  
The Catholic University of Korea St. Vincent's Hospital<sup>2</sup>  
**Min Woo Baik**<sup>1</sup>, Seong Rim Kim<sup>1</sup>, Jae Hoon Sung<sup>2</sup>, Young Woo Kim<sup>1</sup>, Chang Ju Lee<sup>1</sup>, Jeong Kyu Lim<sup>1</sup>, Ik Sung Park<sup>1</sup>
- SS-B13    Efficacy of intracranial stent for incompletely coiled aneurysm  
Dankook University Hospital  
**Jung Ho Ko**, Young-Joon Kim, Young Jin Kim
- SS-B14    Endovascular treatment of large or giant posterior cerebral artery aneurysms  
Sungkyunkwan University Samsung Medical Center  
**Kyung-Il Jo**, Je Young Yeon, Geon-Ha Kim, Pyoung Jeon, Jong-Soo Kim, Seung-Chyul Hong

10:10-12:10

Rm. 208~210 (2F)

## SS-C [Spine II]

Chairperson : Seung Myung Lee, M.D.

- SS-C01 Clinical outcome of lumbar total disc replacement using ProDisc-L<sup>®</sup> in degenerative disc disease: minimum 5-year follow-up results at a single institute  
The Catholic University of Korea Seoul St. Mary's Hospital  
**Kyeong-Sik Ryu**, Myung-Hoon Shin, Jung-Woo Huh, Chun-Kun Park
- SS-C02 Correction of coronal imbalance in degenerative scoliosis following direct lateral interbody fusion  
Yonsei University Severance Hospital  
**Keung Nyun Kim**, Doheum Yoon, Yoon Ha, Seong Yi, Hyosang Lee
- SS-C03 Efficacy of hydroxyapatite for screw augmentation in osteoporotic patients  
Wooridul Spine Hospital  
**Sang Hoon Jang**, Ji Young Cho, Ho-Yeon Lee
- SS-C04 Trans-shoulder scar splitting technique for revisional interlaminar endoscopic lumbar discectomy after conventional open discectomy  
Hurisarang Spine Hospital  
**Hyeong Jun Ahn**, Se-Jin Jeong, Ki Hyun Jeon, Hyeun Sung Kim, Woojin Choi, Kwantae Kim
- SS-C05 Finite element analysis of the biomechanical effect of Conflex<sup>TM</sup> on the lumbar spine  
CHA University Bundang CHA Hospital<sup>1</sup>, Gwangju Institute of Science and Technology<sup>2</sup>  
**Dong Ah Shin**<sup>1</sup>, Dong-Hak Byun<sup>2</sup>, Jin-Myung Kim<sup>2</sup>, So-Hee Kim<sup>2</sup>, Hyoung-Ihl Kim<sup>2</sup>

Chairperson : Il Tae Jang, M.D.

- SS-C06 Adjacent segment degeneration after lumbar dynamic stabilization using pedicle screws and a Nitinol spring rod system with 2 years minimum follow up  
Hallym University Chuncheon Sacred Heart Hospital<sup>1</sup>, Hallym University Kangdong Sacred Heart Hospital<sup>2</sup>  
**Dong Hwa Heo**<sup>1</sup>, Yong-Jun Cho<sup>1</sup>, Suk Hyung Kang<sup>1</sup>, Sung-Min Cho<sup>2</sup>
- SS-C07 Vertical decompression using partial pediculectomy for patients with severe unilateral foraminal stenosis due to decreased foraminal height - preliminary report  
Goodspine Hospital  
Jin Kyu Park, **Duck Hyung Ahn**

- SS-C08 Radiographic and clinical outcome comparison between posterior lumbar interbody fusion (PLIF) and transforaminal lumbar interbody fusion (TLIF) methods at the L4-5 level  
Kyung Hee University Gangdong Hospital  
**Sung-Min Kim**, Tae-One Lee, Jae Kwan Lim,  
Dae-Jean Jo, Yong-Sang Kim
- SS-C09 Surgical technique of shoulder approach of percutaneous interlaminar lumbar discectomy for L5-S1 disc herniation  
SM Christianity Hospital  
**Sanghyuk Park**
- SS-C10 Clinical and radiological outcomes of modified boache type osteotomy (partial pedicle subtraction osteotomy with disc removal) for correction of delayed post-traumatic kyphosis  
Kyung Hee University Gangdong Hospital  
**Dae-Jean Jo**, Sung-Min Kim, Ki-Tack Kim
- Chairperson : Jee-Soo Jang, M.D.
- SS-C11 Single level lumbar fusion with pedicle screws does not increase the incidence of adjacent segment degeneration requiring treatment more than single level decompression does  
Ulsan University Asan Medical Center  
**Jin Wook Kim**, Seung Chul Rhim, Sung Woo Roh, Sang Ryong Jeon
- SS-C12 Single incision percutaneous pedicle screw fixation (SIPPSF) for transforaminal lumbar interbody fusion (TLIF)  
Hallym University Chuncheon Sacred Heart Hospital  
**Suk Hyung Kang**, Dong Hwa Heo, Yong-Jun Cho,  
Gyojun Hwang, Seung Hun Sheen
- SS-C13 Transient neurologic adverse effects of spinal pain block  
Chung-Ang University Hospital  
**Han-Il Lee**, Yong-Sook Park, Tak-Geun Cho,  
Seung-Won Park, Young-Baeg Kim
- SS-C14 The comparative analysis of the patients had not bent rod or succeeded so badly rod position on transpedicular screw fixation during past 5 years - only one organ and department undergone the surgical procedure  
Seoul Medical Center  
**DuSu Kim**, Jung Hee Kim, Seyoun Jang,  
Min Ho Kong, Sunghwan Moon, Kwan Young Song
- SS-C15 The clinical value of 3-T magnetic resonance myelography in far lateral disk herniation  
Chonbuk National University Hospital  
**Hyung-Seok Kim**, Jong-Pil Eun, Jung-Soo Park

10:10-12:10

Rm. 206+207 (2F)

## SS-D 【Tumor·Pediatric】

Chairperson : Seon-Hwan Kim, M.D.

SS-D01 Methodological study on delivering the low-doses of  $\gamma$ -radiation (Ir192) to three neural originated cell lines and one mesenchymal stem cell line

Korea University Anam Hospital<sup>1</sup>,

Ulsan University Asan Medical Center Anesthesia<sup>2</sup>,

Korea University Anam Hospital Radiation Oncology<sup>3</sup>,

Korea University Guro Hospital<sup>4</sup>

**Dong-Hyuk Park**<sup>1</sup>, Dong-Bin Back<sup>1</sup>, Jea-Young Lee<sup>1</sup>,

Jeong-Hyun Lee<sup>2</sup>, Shin-Hyuk Kang<sup>1</sup>, Chul-Yong Kim<sup>3</sup>,

Tai Hyoung Cho<sup>1</sup>, Yong Gu Chung<sup>1</sup>, Youn-Kwan Park<sup>4</sup>

SS-D02 Prognostic molecular phenotypes in recurrent anaplastic glioma patients with prolonged administration of Temozolomide

Sungkyunkwan University Samsung Medical Center

**Sang-Bong Chung**, Doo-Sik Kong, Ho Jun Seol, Jung-Il Lee,

Kwan Park, Jong-Hyun Kim, Do-Hyun Nam

SS-D03 The surgical outcome and the prognostic factors of meningioma in the elderly patients

Chonnam National University Hwasun Hospital

**Jong Ho Moon**, Shin Jung, Woo-Youl Jang,

Tae-Young Jung, Kyung-Sub Moon, In-Young Kim

SS-D04 The prognosis of anaplastic astrocytoma with radiologic necrosis mimicking glioblastoma

Chonnam National University Hwasun Hospital

**Tae-Young Jung**, Sang-Deok Kim, Shin Jung,

In-Young Kim, Woo-Youl Jang, Kyung-Sub Moon

Chairperson : Tae Young Kim, M.D.

SS-D05 Treatment outcomes after Gamma Knife radiosurgery for breast cancer brain metastases; perspectives of recurrence, overall survival and intrinsic subtype

Sungkyunkwan University Samsung Medical Center<sup>1</sup>,

Sungkyunkwan University Samsung Medical Center Radiation

Oncology<sup>2</sup>,

Sungkyunkwan University Samsung Medical Center Neuroradiology<sup>3</sup>

**Kyung-Il Jo**<sup>1</sup>, Doo-Sik Kong<sup>1</sup>, Ho Jun Seol<sup>1</sup>, Do-Hyun Nam<sup>1</sup>,

Jung-Il Lee<sup>1</sup>, Do-Hoon Lim<sup>2</sup>, Sung-Tae Kim<sup>3</sup>

- SS-D06 Isolation of mesenchymal stem-like cells in meningioma specimen  
Yonsei University Severance Hospital<sup>1</sup>,  
The Catholic University of Korea Seoul St. Mary's Hospital<sup>2</sup>,  
The Catholic University of Korea Uijeongbu St. Mary's Hospital<sup>3</sup>,  
Seonam University Medical Science<sup>4</sup>, Hanyang University Chemistry<sup>5</sup>,  
Yonsei University Radiology<sup>6</sup>  
**Bo Kyung Kim**<sup>1</sup>, Jin-Kyoung Shim<sup>1</sup>, Hye-Jin Shin<sup>2</sup>, Hyun-Su Mok<sup>3</sup>,  
Hyun Do Shin<sup>4</sup>, Su-Jae Lee<sup>5</sup>, Yong-Min Huh<sup>6</sup>, Jong Hee Chang<sup>1</sup>,  
Dong Seok Kim<sup>1</sup>, Yong-Kil Hong<sup>2</sup>, Seok-Gu Kang<sup>1</sup>
- SS-D07 Coincidence of intracranial aneurysm in eight hundred patients  
with surgically confirmed pituitary adenoma  
Yonsei University Severance Hospital  
**Minchul Oh**, Eui Hyun Kim, Sun Ho Kim
- SS-D08 Changes in biological characteristics of glioma cancer stem cells  
in serial in vivo subtransplantation  
The Catholic University of Korea<sup>1</sup>,  
Yonsei University Severance Hospital<sup>2</sup>,  
The Catholic University of Korea Seoul St. Mary's Hospital<sup>3</sup>,  
The Catholic University of Korea Uijeongbu St. Mary's Hospital<sup>4</sup>,  
Seonam University Medical Science<sup>5</sup>, Hanyang University Chemistry<sup>6</sup>,  
Yonsei University Radiology<sup>7</sup>,  
**Ga-Yeong Sin**<sup>1</sup>, Jinkyong Shim<sup>2</sup>, Bo-Kyoung Kim<sup>2</sup>, Hye-Jin Shin<sup>3</sup>,  
Hyun-Su Mok<sup>4</sup>, Hyundo Shin<sup>5</sup>, Su-Jae Lee<sup>6</sup>, Yong-Min Huh<sup>7</sup>,  
Jong Hee Chang<sup>2</sup>, Dong Seok Kim<sup>2</sup>, Yong-Kil Hong<sup>3</sup>, Seok-Gu Kang<sup>2</sup>
- Chairperson : Oh-Lyong Kim, M.D.
- SS-D09 A clinical analysis of metastatic brain tumor presented by  
intratumoral bleeding  
Kyung Hee University Hospital  
**Bong Jin Park**, Hee Sup Shin, Seok Keun Choi, Sung-Bum Kim,  
Tae Sung Kim, Bong Arm Rhee, Young Jin Lim
- SS-D10 Importance of the vertebral artery mobilization in excision of  
ventrally placed foramen magnum and upper cervical spine tumors  
Yonsei University Gangnam Severance Hospital  
**Chang-Ki Hong**, Kyu-Sung Lee
- SS-D11 Hyperostosis associated with meningioma of the cranial vault:  
true tumor invasion or secondary changes?  
Kyungpook National University Hospital  
**Jeong-Hyun Hwang**, Seong-Hyun Park, Sung-Kyoo Hwang
- SS-D12 Intracranial capillary hemangioma: extra-axial tumorous lesions  
closely mimicking meningioma  
Seoul National University Children's Hospital<sup>1</sup>,  
Seoul National University Hospital<sup>2</sup>  
**Ji Hoon Phi**<sup>1</sup>, Seung-Ki Kim<sup>1</sup>, Anna Cho<sup>1</sup>,  
Dong Gyu Kim<sup>2</sup>, Sun Ha Paek<sup>2</sup>, Kyu-Chang Wang<sup>1</sup>

Chairperson : Soo Han Yoon, M.D.

- SS-D13    The role of miR-196a2 SNPs in moyamoya disease  
CHA University Bundang CHA Hospital<sup>1</sup>,  
Yonsei University Severance Hospital<sup>2</sup>,  
CHA University Institute for Clinical Research<sup>3</sup>  
**Park Young Seok**<sup>1</sup>, Tae Gon Kim<sup>1</sup>, Dong Seok Kim<sup>2</sup>,  
Joong-Uhn Choi<sup>1</sup>, Namkeun Kim<sup>3</sup>
- SS-D14    The comparison of early results of three operational methods in  
138 children with non-syndromic craniosynostosis: trans-sutural  
distraction osteogenesis, rotating distraction osteogenesis and  
conventional craniotomy and remodeling  
Ajou University Hospital  
**Soo Han Yoon**, Jae-Kyu Kang
- SS-D15    Transventricular neuroendoscopic biopsy of suprasellar tumors:  
pediatric case series  
Sungkyunkwan University Samsung Medical Center  
**Kyunghwan Kim**, Sang Bong Chung, Doo Sik Kong,  
Ho Jun Seol, Hyung Jin Shin

10:10-12:10

Rm. 201+202 (2F)

## SS-E 【Functional · Pain】

Chairperson : Yong-Tae Jung, M.D.

- SS-E01    The outcome of hearing preservation after Gamma Knife  
radiosurgery for vestibular schwannoma with cochlear  
fossa enhancement  
Yonsei University Wonju Christian Hospital<sup>1</sup>,  
Yonsei University Severance Hospital<sup>2</sup>  
**Hyun Ho Jung**<sup>1</sup>, Chang Won Seok<sup>2</sup>, Jong Hee Chang<sup>2</sup>,  
Jin Woo Chang<sup>2</sup>, Yong Gou Park<sup>2</sup>
- SS-E02    GKS for neurofibromatosis  
Inje University Busan Paik Hospital  
**Mooseong Kim**, Sung tae Kim, Kun-Soo Lee, Sung Hwa Paeng,  
Se Yeong Pyo, Young-Gyun Jeong, Yong-Tae Jung
- SS-E03    Stereotactic radiosurgery for brain metastasis from colorectal cancer  
Chonnam National University Hwasun Hospital  
**In-Young Kim**, Shin Jung, Tae-Young Jung,  
Kyung-Sub Moon, Woo Youl Jang, Seung-Jin Park
- SS-E04    Long term outcomes of Gamma knife surgery for classic trigeminal  
neuralgia in patients younger than 50 years  
Ulsan University Asan Medical Center<sup>1</sup>, National Police Hospital<sup>2</sup>  
**Jye Young Song**<sup>1</sup>, Jung-Kyo Lee<sup>1</sup>, Deok-Ryeong Kim<sup>1</sup>, Yun Hee Hue<sup>1</sup>,  
JinKyung Kim<sup>2</sup>, Won Chul Namgung<sup>2</sup>, Seok Ho Hong<sup>1</sup>

Chairperson : Ryoong Huh, M.D.

- SS-E05 Spinal cord stimulation for vegetative state  
Inje University Busan Paik Hospital  
**Mooseong Kim**, Kun-Soo Lee, Sung Hwa Paeng, Sung Tae Kim<sup>1</sup>,  
Se Yeong Pyo, Young-Gyun Jeong, Yontae Jung
- SS-E06 Clinical outcomes of suprascapular pulsed radiofrequency  
neuromodulation in chronic shoulder pain  
Kyung Hee University Hospital  
**Hyukjai Choi**, Seok Keun Choi, Sung-Bum Kim, Bong Jin Park,  
Tae Sung Kim, Bong Arm Rhee, Young Jin Lim
- SS-E07 Treatment results and effectiveness of Extracorporeal shock wave  
therapy (ESWT) for lumbar spine pain  
The Leon Wiltse Memorial Hospital<sup>1</sup>,  
Sungkyunkwan University Samgsung Medical Hospital<sup>2</sup>  
**Dong-Geun Lee**<sup>1</sup>, Eun Sang Kim<sup>2</sup>, Sun Ho Lee<sup>2</sup>, Whan Eoh<sup>2</sup>,  
Sung Soo Chung<sup>2</sup>, Chong Suh Lee<sup>2</sup>
- SS-E08 Comparison of the clinical effectiveness between cervical  
translaminar epidural injection and cervical Racz procedure  
CHA University Bundang CHA Hospital  
**Hyun-Goo Kim**, Dong Ah Shin, Kyung Gi Cho, Sang Sup Chung

Chairperson : Young Soo Kim, M.D.

- SS-E09 A metaanalysis of DBS in treatment-resistant major depression  
CHA University Bundang CHA Hospital  
Young Seok Park, **Min Soo Kim**, Sang Sup Chung
- SS-E10 The effect of electrical stimulation of the medial septum in 192  
IgG-saporin lesioned rat: pilot study using microPET  
Yonsei University Severance Hospital  
**Won Seok Chang**, Daun Chung, Ji Eun Lee,  
Jin Hyung Kim, Yong Sup Whang, Jin Woo Chang
- SS-E11 Invasive intracranial EEG monitoring after tailored corpus  
callosotomy for non-lesional frontal lobe epilepsy  
Yonsei University Severance Hospital  
**Ji Hee Kim**, Chang Hwan Kim, Jong Chul Chung,  
Joo Pyung Kim, Won Seok Chang, Moon Kyu Lee,  
Yang Je Cho, Byung In Lee, Jin Woo Chang

Chairperson : Hyung-Ihl Kim, M.D.

- SS-E12 Surgical complications of pediatric auditory brain stem implantation  
in patients with narrow internal auditory canal following  
retrosigmoid approach  
Yonsei University Severance Hospital  
**Ju Seung Kim**, Jong Chul Chung, Joo Pyung Kim,  
Won Seok Chang, Yong Gou Park, Jin Woo Chang



- SS-E13    Ictal intracranialelectroencephalography wavecluster analysis under 99 Hz and postoperative seizure outcome in temporal lobe epilepsy  
Seoul National University Hospital<sup>1</sup>,  
Seoul National University Hospital Neurology<sup>2</sup>  
**Seong-Cheol Park**<sup>1</sup>, Sang Kun Lee<sup>2</sup>, Chun Kee Chung<sup>1</sup>
- SS-E14    An analysis of correlation between intraoperative EMG and early postoperative clinical results of hemifacial spasms  
Kyung Hee University Hospital  
**Bong Jin Park**, Hee Sup Shin, Seok Keun Choi, Sung Bum Kim,  
Tae Sung Kim, Bong Arm Rhee, Young Jin Lim

10 : 10-12 : 10

Rm. 203+204 (2F)

## SS-F 【Geriatric · Peripheral · Neurotrauma · Others】

Chairperson : Seong-Ho Kim, M.D.

- SS-F01    Life style and delayed hospital arrival in Korean stroke patients  
The Catholic University of Korea Bucheon St. Mary's Hospital  
**Kwang Wook Jo**, Ik Seong Park
- SS-F02    Hindlimbs mapping of the motor cortex of the rat by a intracortical microstimulation method  
Ulsan University Asan Medical Center<sup>1</sup>,  
University of Ulsan College of Medicine<sup>2</sup>  
**Byeongsam Choi**<sup>1</sup>, Joongkee Min<sup>2</sup>
- SS-F03    Therapeutic efficacy of advanced adipose derived stem cell protein extract in a dose dependant manner in a rat model of Parkinson's disease  
University of Ulsan College of Medicine<sup>1</sup>,  
Asan Institute for Life Sciences<sup>2</sup>,  
Ulsan University Asan Medical Center<sup>3</sup>  
**Hyung Ho Yoon**<sup>1</sup>, Sun Mi Kim<sup>2</sup>, Sang Ryong Jeon<sup>3</sup>
- SS-F04    Failure of therapeutic efficacy by human brain-derived neural stem cell and human dental papilla-derived neural stem cell in a rat model of Parkinson's disease  
University of Ulsan College of Medicine<sup>1</sup>,  
Asan Institute for Life Sciences<sup>2</sup>,  
Ulsan University Asan Medical Center<sup>3</sup>  
**Hyung Ho Yoon**<sup>1</sup>, Joongkee Min<sup>1</sup>, Sun Mi Kim<sup>2</sup>, Sang Ryong Jeon<sup>3</sup>

Chairperson : Jae Hyoo Kim, M.D.

- SS-F05    Surgical outcomes of the minimal medial epicondylectomy and in situ decompression for cubital tunnel syndrome  
The Catholic University of Korea Incheon St. Mary's Hospital  
**Jong Tae Kim**, Ki-Yeol Lee, Hyoung Sub Kim, Young Sup Park

SS-F06    Unusual variation in the course of the lateral femoral cutaneous nerve (LFCN) in meralgia paresthetica  
The Catholic University of Korea St. Vincent's Hospital  
**Byung-chul Son**, Seung-Ho Yang, Jae-taek Hong,  
Jae-Hoon Sung, Sang-Won Lee

SS-F07    A new role model of the neurosurgically systemized hospital in communities  
S Pohang Hospital  
**Mun-Chul Kim**

SS-F08    Hemorrhagic complications rate of ventriculostomy placement  
Pusan National University Hospital  
**Su-Heon Lee**, Jun Kyeong Ko, Jae Il Lee, Dong-Wan Kang,  
In Ho Han, Won Ho Cho, Byung Kwan Choi, Seung Heon Cha

Chairperson : Se-Hyuck Park, M.D.

SS-F09    In vivo tracking of human neural stem cells following transplantation into a rodent model of spinal cord injury  
CHA University Bundang CHA Hospital  
**Dong Ah Shin**, Seung-Hun Oh, Ji-hwan Song

SS-F10    Traumatic internuclear ophthalmoplegia and MRI - a case report  
Maryknoll Medical Center  
**Myung-Ki Lee**, Sung Woo Lee, Il Seo, Seon Tak Jin, Yong Min Kim,  
Ho-Sang Kim, Jeong Ho Kim, Yunsuk Kim, Sang Yong Kim

SS-F11    Neuroprotective effects of canosine in cerebral ischemic stroke  
Seoul Medical Center<sup>1</sup>, Seoul Medical Center Clinical Research<sup>2</sup>  
**Sung Hwan Moon**<sup>1</sup>, Do Hee Kim<sup>2</sup>, Gyeong Hoon Han<sup>2</sup>, Se Yun Jang<sup>1</sup>,  
Jung Hee Kim<sup>1</sup>, Min Ho Gong<sup>1</sup>, Dong Soo Kang<sup>1</sup>, Kwan Young Song<sup>1</sup>

SS-F12    Cerebral toxoplasmosis combined with disseminated tuberculosis - a case report  
Dae-Ah Hando General Hospital<sup>1</sup>,  
Korea University Hospital Anatomy<sup>2</sup>  
**Poong Gi Ahn**<sup>1</sup>, Hyeok Soo Kim<sup>1</sup>, Eui Ho Hwang<sup>1</sup>, Dong Min Lee<sup>2</sup>

SS-F13    A novel epidural blood patch method and spontaneous intracranial hypotension syndrome  
The Catholic University of Korea St. Vincent's Hospital  
**Byung-Chul Son**, Seung-Ho Yang, Jae-taek Hong,  
Jae-Hoon Sung, Sang-Won Lee

## POSTER

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- P-001 Lipoma with osseous metaplasia on posterior neck  
Hallym University Chuncheon Sacred Heart Hospital  
**Suk Hyung Kang**, Gyojun Hwang, Dong Hwa Heo,  
Seung Hun Sheen, Yong-Jun Cho
- P-002 Monostotic Paget's disease of the lumbar spine mimicking vertebral  
metastasis - a case report  
Chonbuk National University Hospital  
Jong Pil Eun, Jung Soo Park, **Dukgyu Kim**
- P-003 Foot drop after percutaneous endoscopic lumbar discectomy;  
recovery after immediate open lumbar discectomy  
Busan Wooidul Spine Hospital  
**Dong-Woo Kim**, Kyeong-Bo Choi, Byeong-Wook Hwang
- P-004 Lumbar spinal chondroma presenting with acute sciatica  
- a case report  
Pusan National University Hospital  
**Dong Hwan Kim**, In Ho Han, Kyoung Hyup Nam, Byung Kwan Choi
- P-005 Rapid extramedullary extension of diffuse large B cell lymphoma  
in cervical spinal cord through the root  
Kyung-Hee University Hospital  
**Min Ki Kim**, Sung-Bum Kim, Bong Jin Park,  
Tae Sung Kim, Young Jin Lim
- P-006 Anaplastic ependymoma in thoracic spinal cord - a case report  
Yeungnam University  
**Byung Soo Kim**, Sang Woo Kim, Chang Hwan Kim, Min Su Kim
- P-007 Non traumatic midcervical facet dislocation in a very elderly patient  
The Catholic University of Korea Bucheon St. Mary's Hospital  
**Seong Joon Kim**, Sang-Don Kim
- P-008 The epidural cyst with intradural invagination  
Sungkyunkwan University Kangbuk Samsung Hospital  
**Sion Kim**, Kiyoung Han, Hyunchul Shin, Chunsik Choi
- P-009 Long-term follow-up (minimum 5years) comparison study  
of single-level posterior dynamic stabilization in lumbar  
degenerative disease 'Interspinous U' vs. 'DIAM'  
Gachon University Gil Hospital  
**Yeon Joon Kim**, Sang-Gu Lee, Chan Woo Park,  
Seong Son, Woo-Kyung Kim
- P-010 Cervical spondylotic myelopathy caused by minor trauma  
in Klippel-Feil syndrome patient - a case report  
Dankook University Hospital  
**Young Jin Kim**, Jung Ho Ko, Chun-Sung Cho,  
Young-Joon Kim, Sang Koo Lee
- P-011 Lymphomatoid granulomatosis with spinal involvement after  
childhood acute lymphoblastic leukemia  
Keimyung University Dongsan Medical Center  
**Insoo Kim**

- P-012 A management case of spinal arachnoid cyst  
Seoul Medical Center  
Min Ho Kong, **Jae Hong Kim**, Doo Su Kim, Sung Hwan Moon,  
Se Yeon Jang, Jung Hee Kim, Dong Su Kang, Kwan Young Song
- P-013 Clinical characteristic of lumbar spinal stenosis patients younger than 51 years  
Nanoori Hospital  
**Tae-Yeon Kim**, Jae-Hyun Lim, U-Taek Rhee, Il-tae Jang,  
Sung-II Ha, U-Jae Kim, Jung-Sik Bae, Tae-Gu Cho
- P-014 Seat-belt injury of T11 vertebra treated percutaneous pedicle screw fixation in patients with Ankylosing spondylitis  
Chonnam National University Hospital  
**Hyool Kim**, Jung-Kil Lee, Hyung Sik Moon, Jae-Won Jang,  
Bo-Ra Seo, Tae Sun Kim, Jae Hyoo Kim, Soo Han Kim
- P-015 T11-12 fracture-dislocation with spinal cord injury  
Hallym University Hangang Sacred Heart Hospital  
**Han Ga Wi Nam**, Ho Jun Yi, Seung-Myung Moon,  
Je Hoon Jeong, Hyungsik Hwang
- P-016 Direct pars screw fixation using O-arm imaging system coupled with navigation in symptomatic lumbar spondylolysis - a case report  
The Catholic University of Korea Seoul St. Mary's Hospital  
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