

의료기기 주요 분류별 특허 증가 추세 분석

I. 주요 분류별 특허 증가 추세 분석 방법

□ 분석 대상 특허

- 「의료기기-특허분류 연계표*」를 기준으로 하여 14개 중분류 및 상위 40개** 소분류에 10년간('06~'15년) 출원 또는 등록된 특허

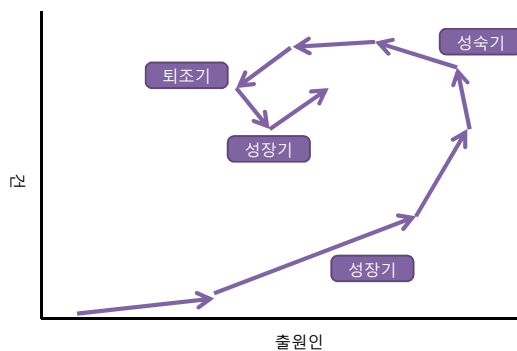
* 의료기기를 14개와 중분류 80개 소분류로 분류하고, 각 소분류별로 관련 IPC를 매칭한 산업-특허분류 매칭표

** 중분류는 전체, 소분류는 상위 50%인 40개만 분석대상으로 함

□ 분석 방법

- ① (기술성장단계 분석) 출원인-출원건의 변화 추이를 분석하여 각 분류별 기술성장단계를 분석할 수 있도록 제시

* 14개 중분류에 대해서는 기술성장단계를 제시하고, 40개 소분류에 대해서는 그래프만 제시

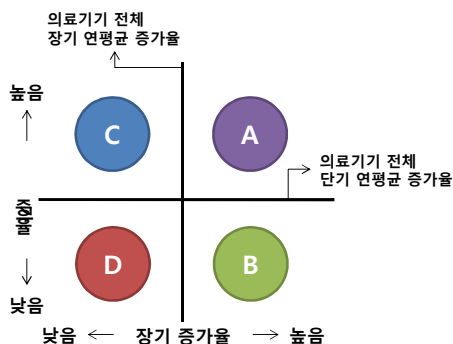


< 기술성장 단계 >

- ① 성장기 : 출원인과 출원이 크게 증가
- ② 성숙기 : 출원인이 감소하면서 출원 증가세가 점차 둔화
- ③ 퇴조기 : 출원인과 출원이 감소

- ② (증가율 분석) 분류별 장/단기 연평균 증가율*을 산출하고, 의료기기 전체의 연평균 증가율과 비교하여 4개 그룹으로 제시

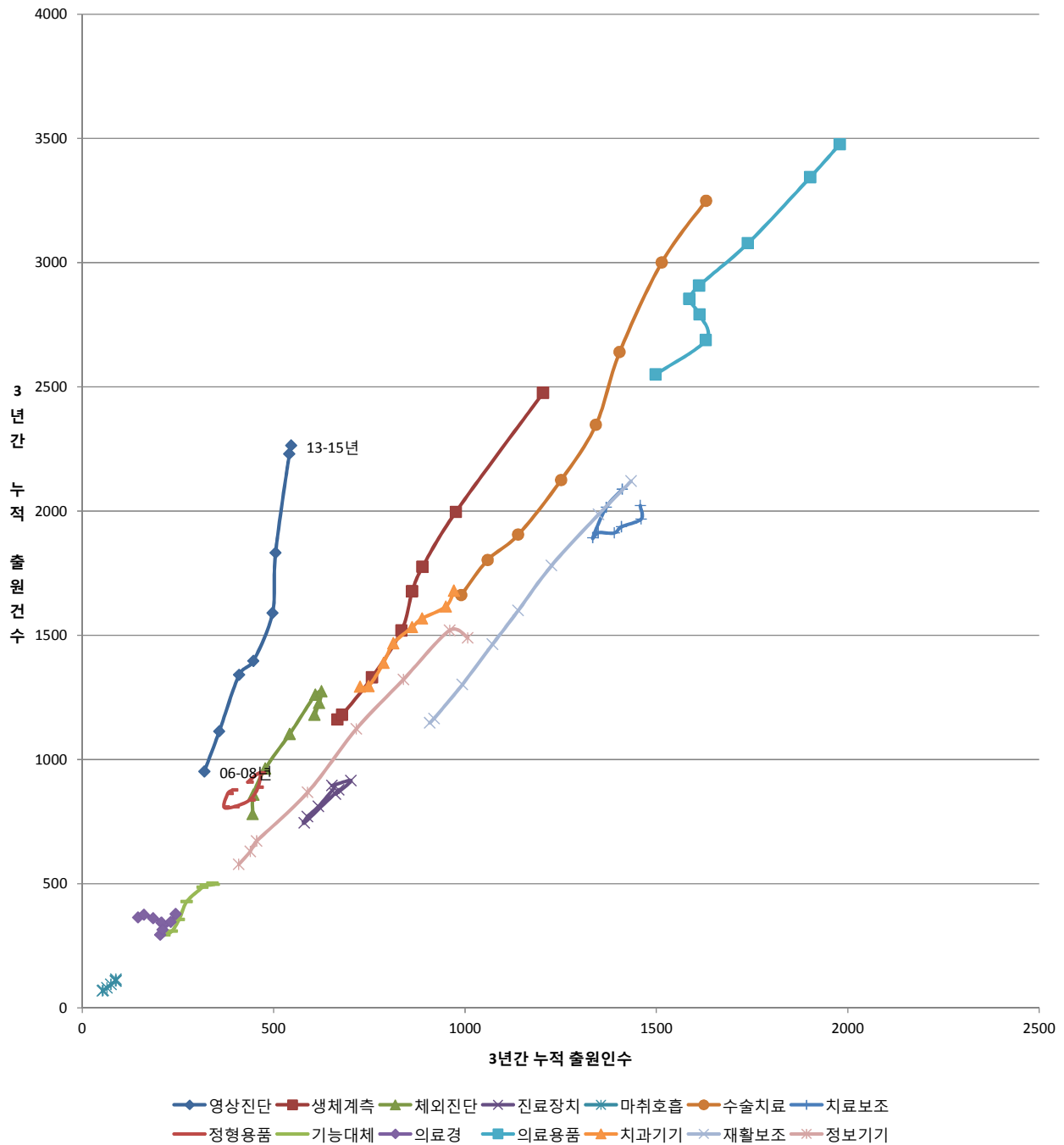
* 장기 증가율은 최근 10년간('06~'15년) 연평균 증가율, 단기 증가율은 최근 3년간('12~'15년) 연평균 증가율로 산출



그룹	특허 증가율 특성
A	장단기 증가율이 모두 높음
B	장기 증가율은 높으나 단기 증가율은 낮음
C	단기 증가율은 높으나 장기 증가율은 낮음
D	장단기 증가율이 모두 낮음

II. 기술성장단계 분석 결과

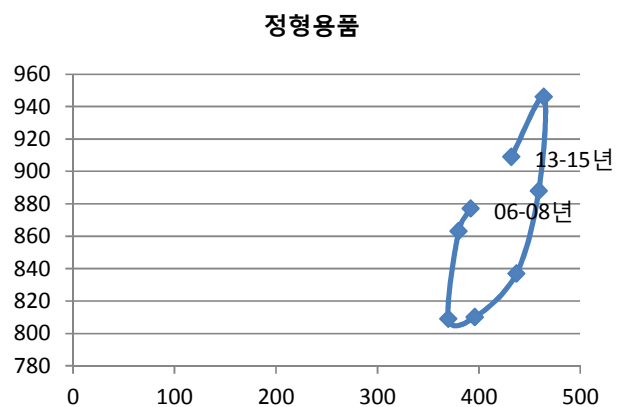
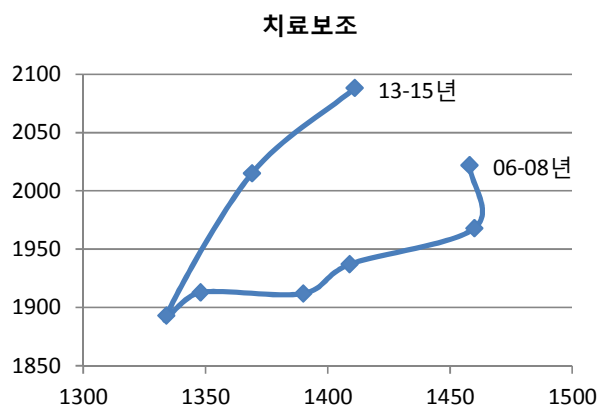
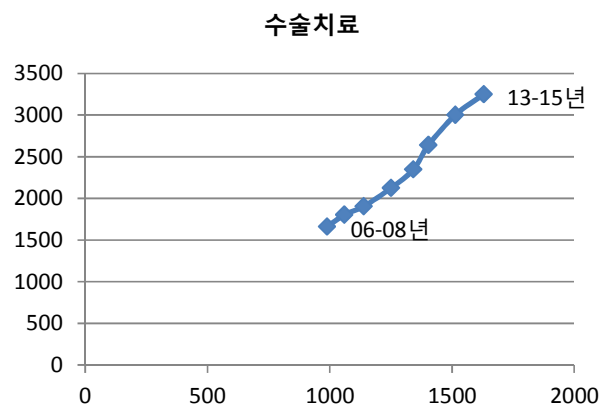
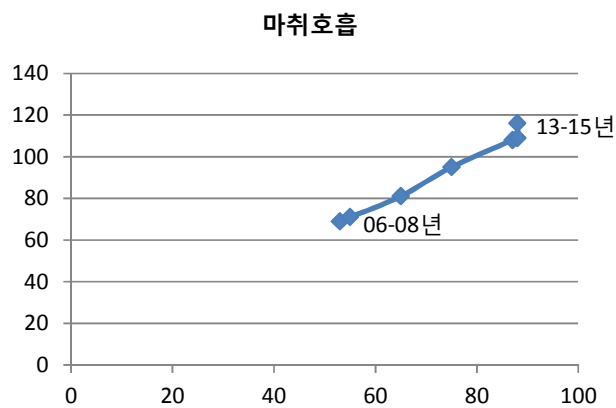
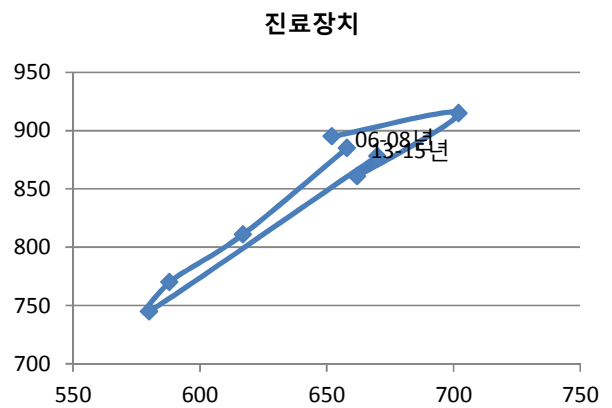
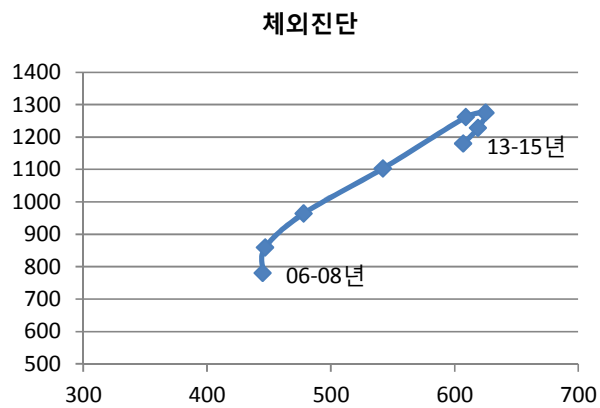
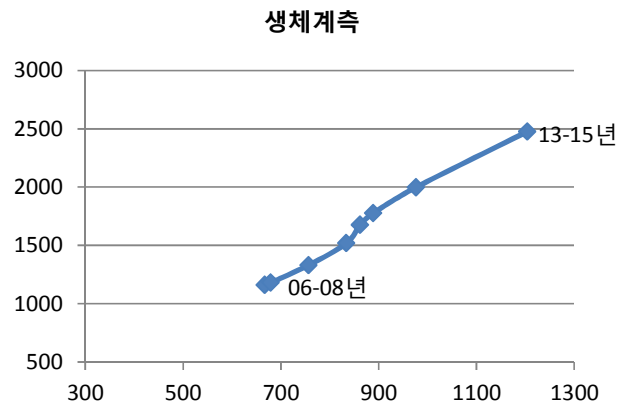
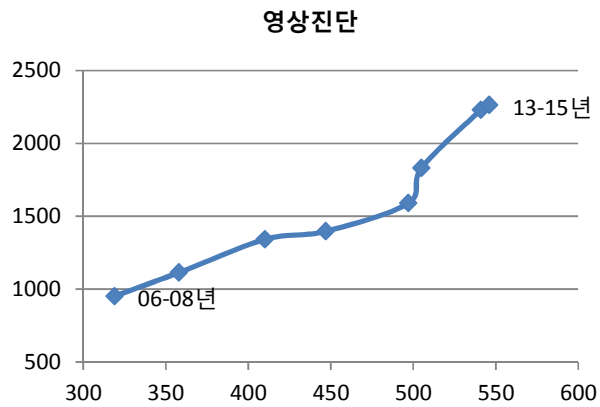
□ 중분류 주요 성장단계 분석



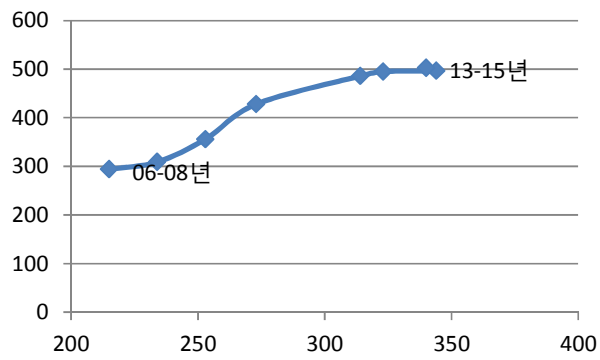
* 출원 추이를 분석하기 위해 3년간 누적 값을 사용(예 : 영상진단기기 분야 시작점은 '06-'08년 누적 출원인/건 값이고 이후 1년단위로 이동하여 ('07-'09년, '08-'10년 순) 종결점은 '13-'15년 누적 값임, 이하 동일)

기술성장단계	해당 분류
성장기	생체계측, 진료장치, 수술치료, 치료보조, 의료경, 의료용품, 재활보조
성숙기	영상진단, 마취호흡, 기능대체, 치과기기, 정보기기
퇴조기	체외진단, 정형용품

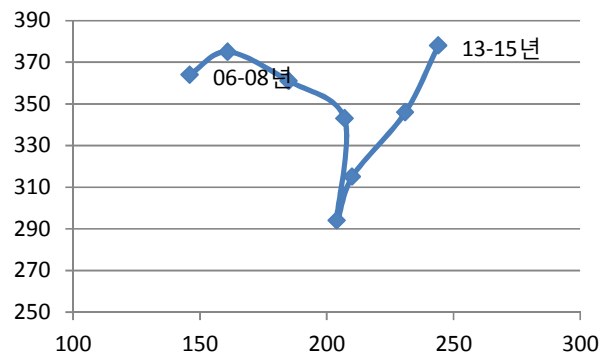
< 14개 중분류별 그래프 >



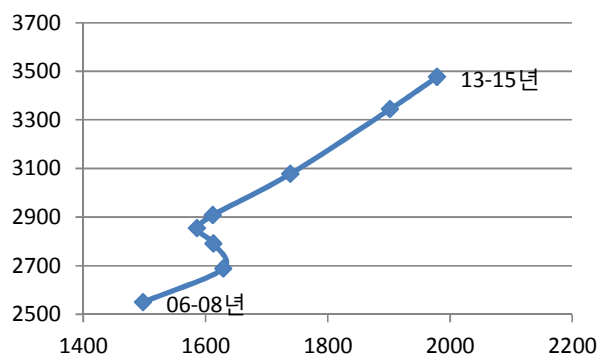
기능대체



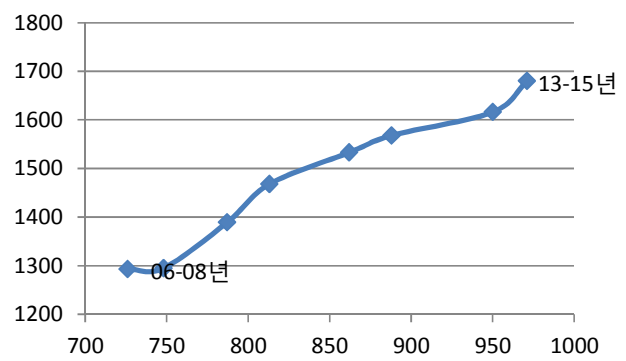
의료경



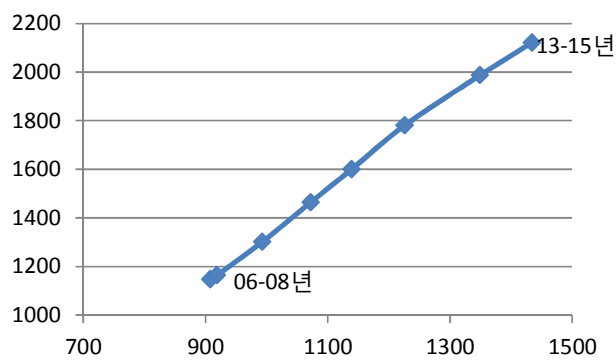
의료용품



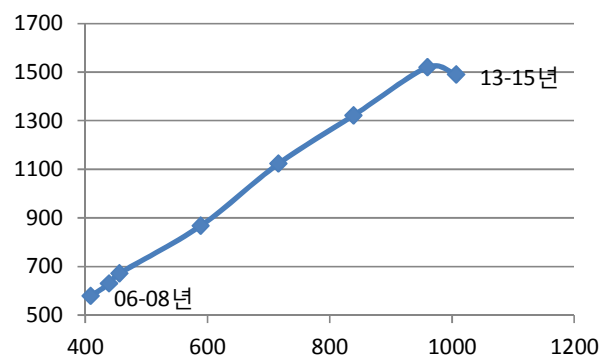
치과기기



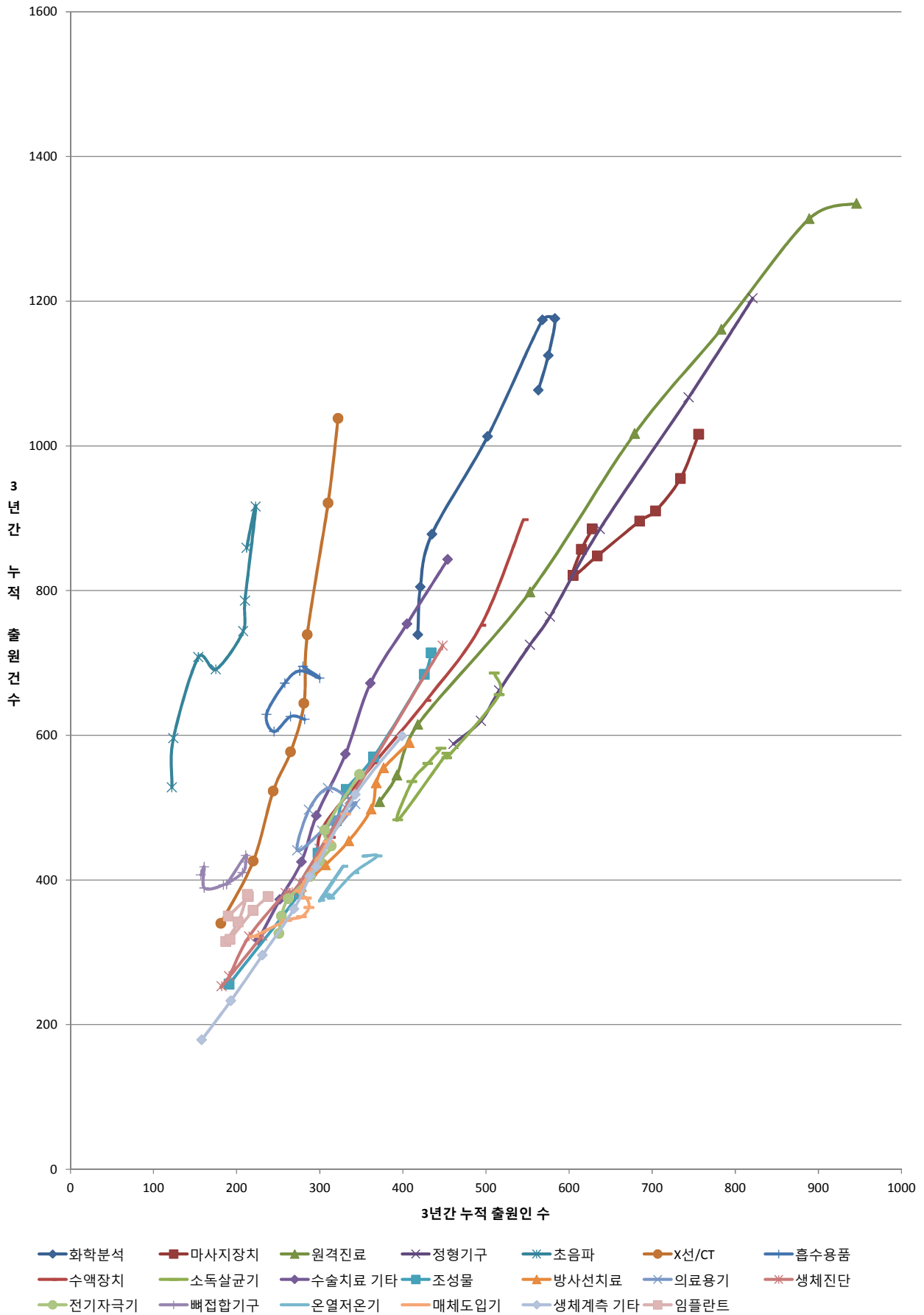
재활보조



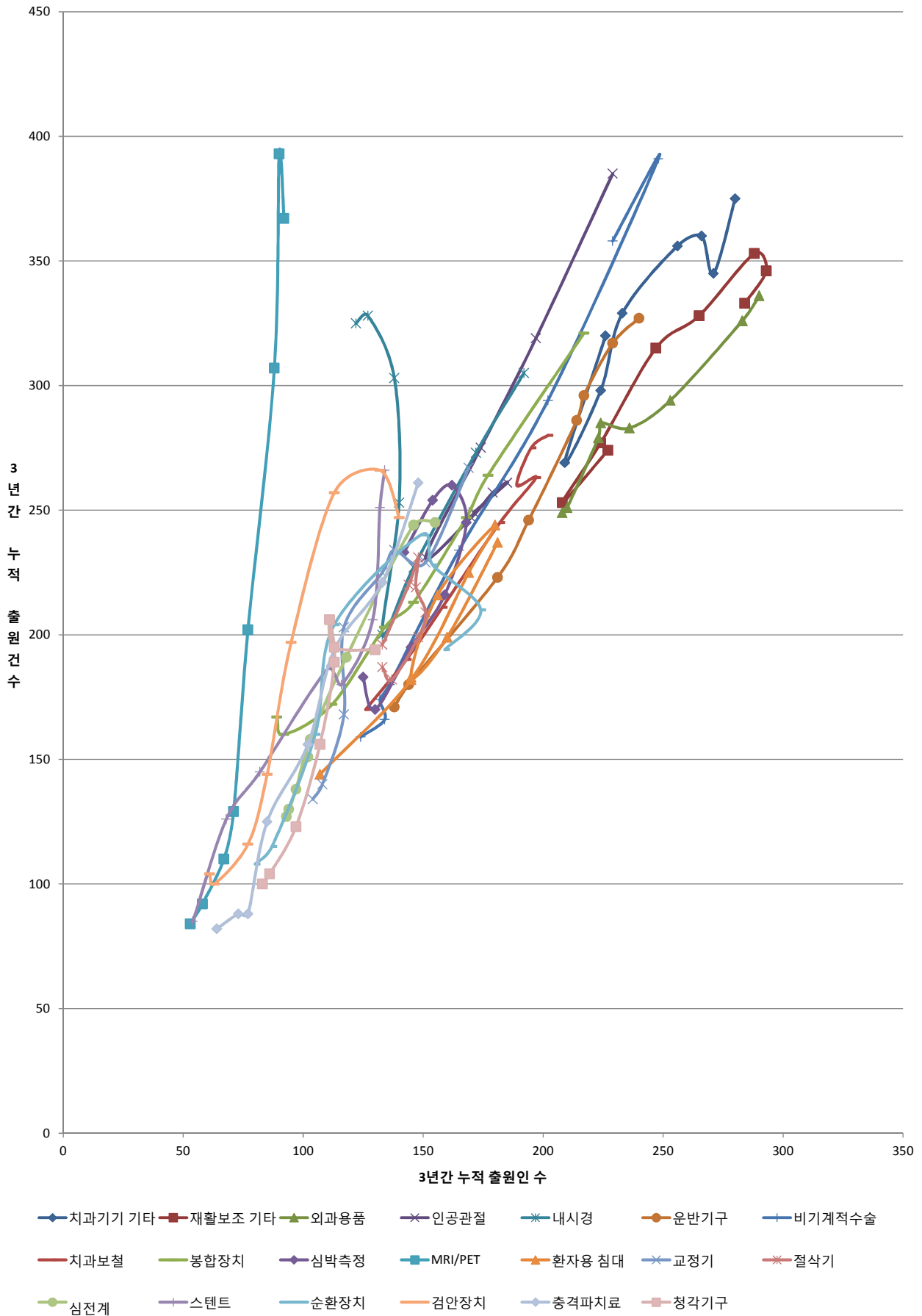
정보기기



□ 소분류 1그룹(출원 상위 1~20위 그룹) 성장단계 분석

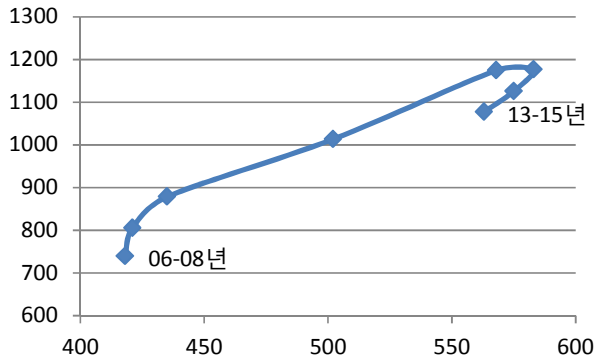


□ 소분류 2그룹(출원 상위 21~40위 그룹) 성장단계 분석

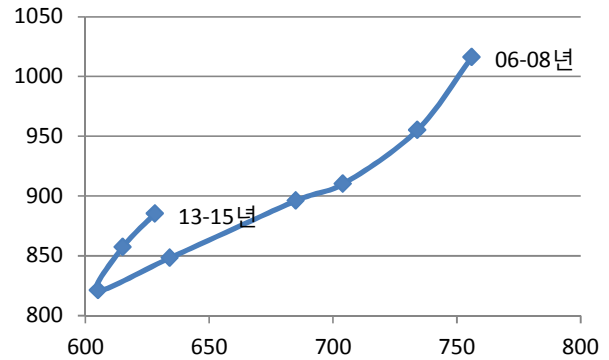


< 40개 소분류별 그래프 >

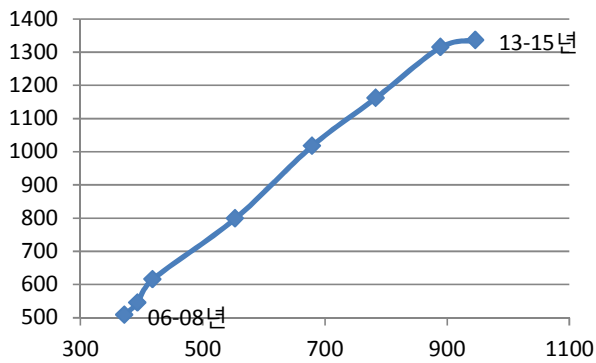
화학분석



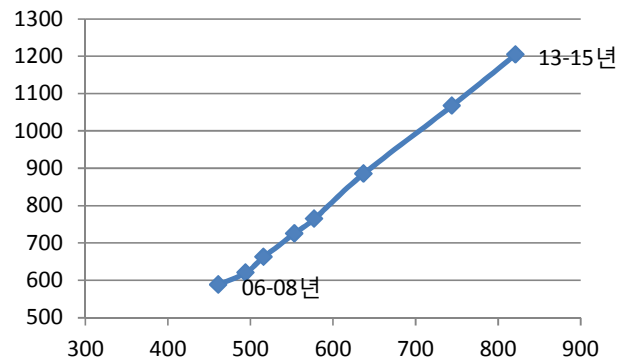
마사지장치



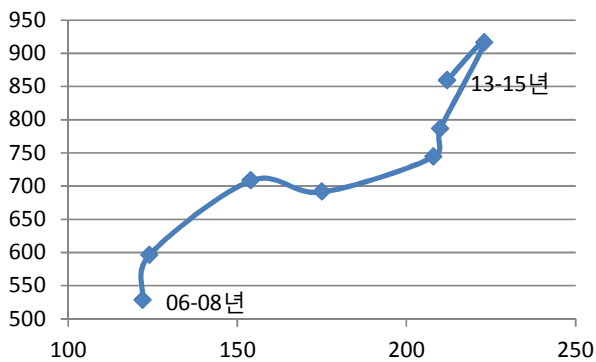
원격진료



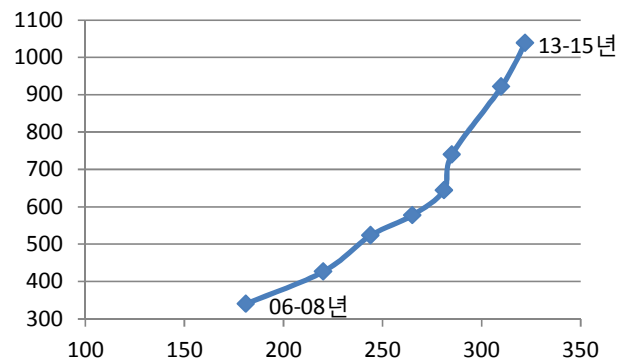
정형기구



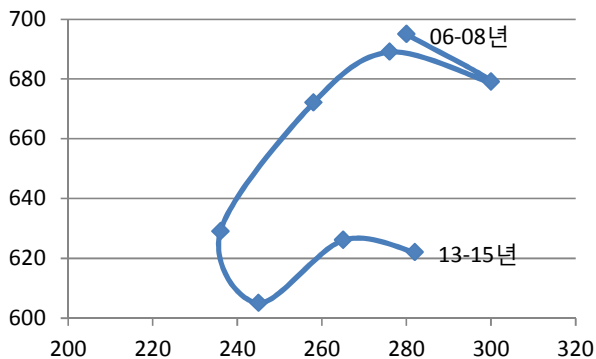
초음파



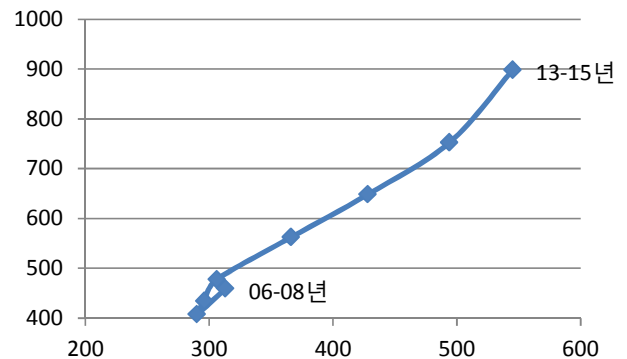
X선/CT



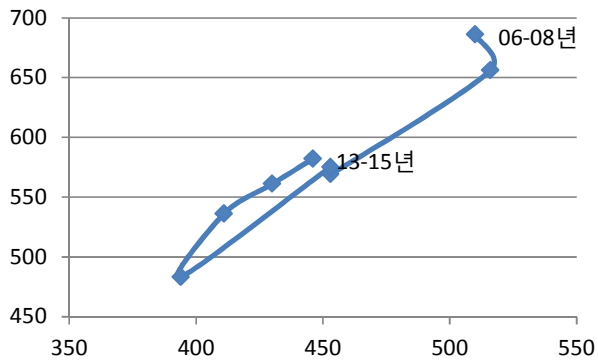
흡수용품



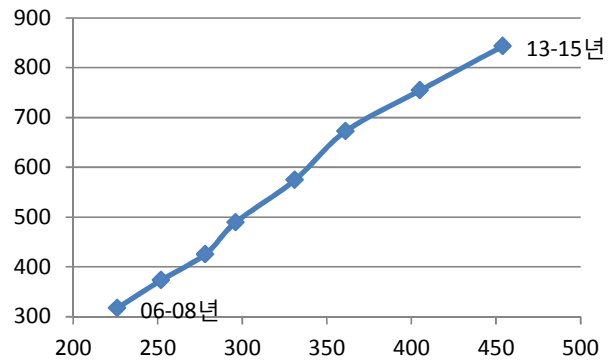
수액장치



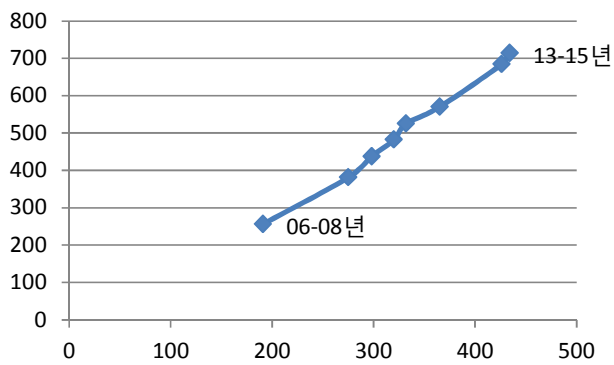
소독살균기



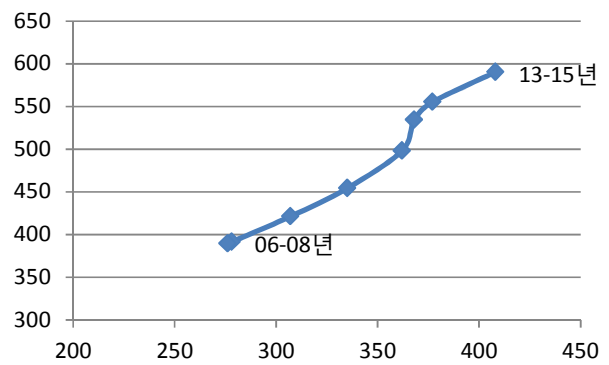
수술치료 기타



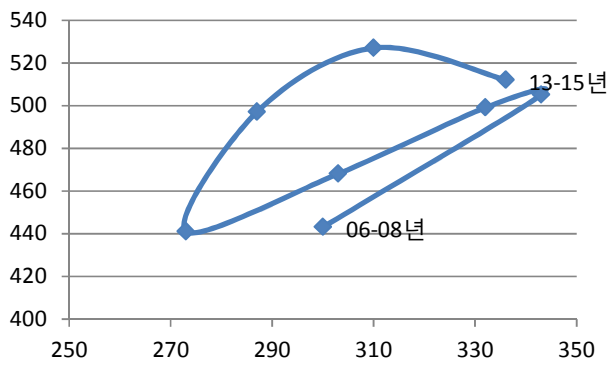
조성물



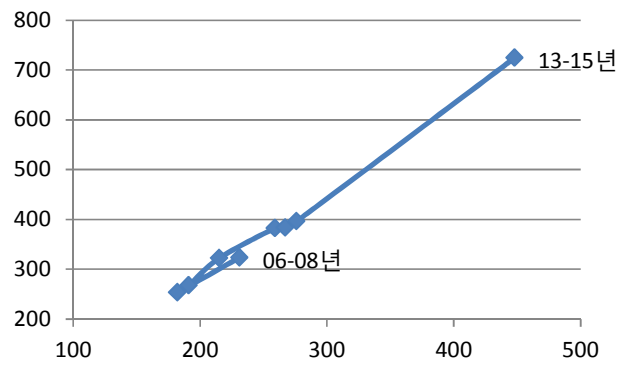
방사선치료



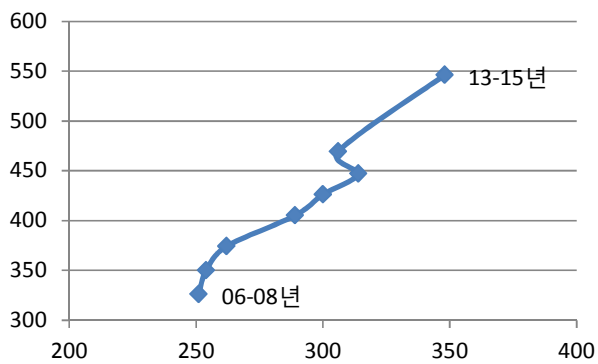
의료용기



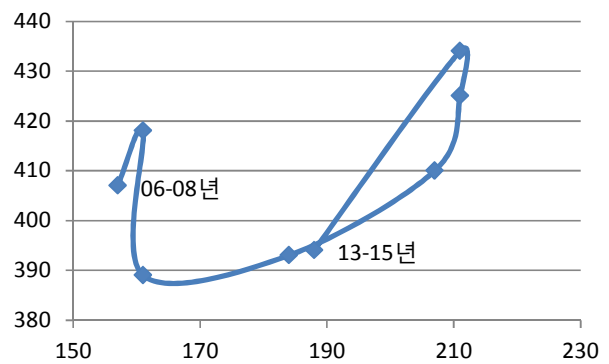
생체진단



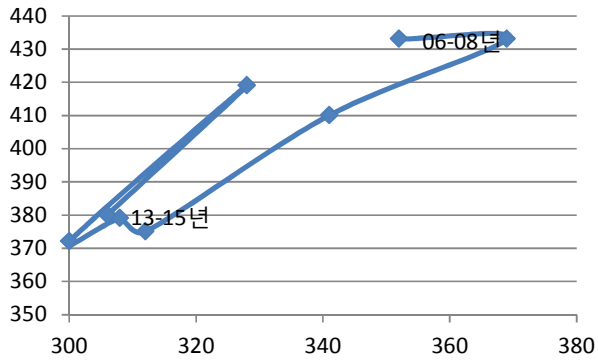
전기자극기



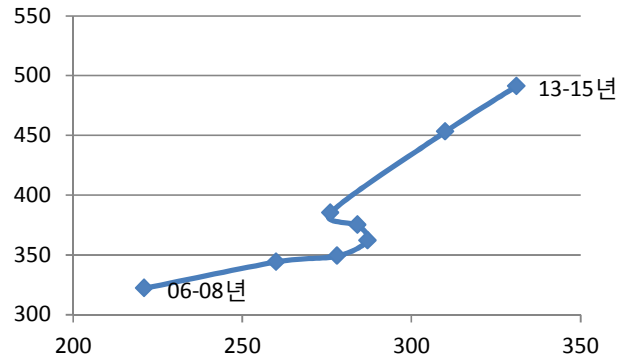
뼈접합기구



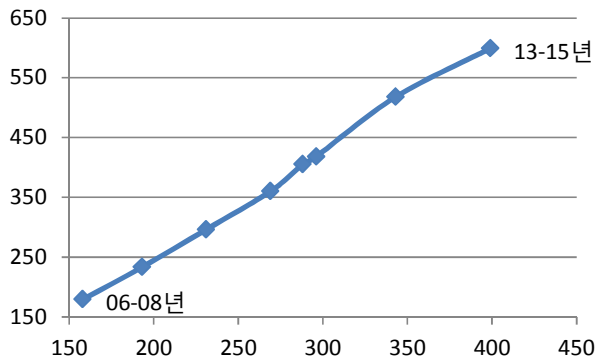
온열저온기



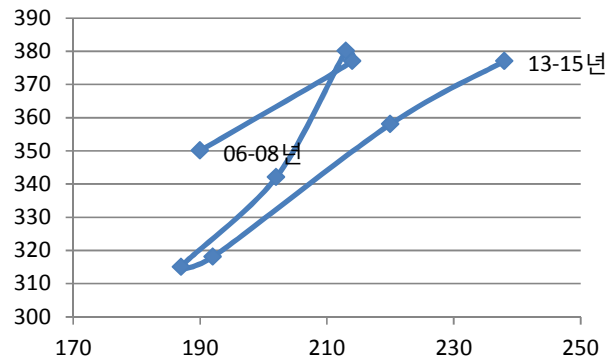
매체도입기



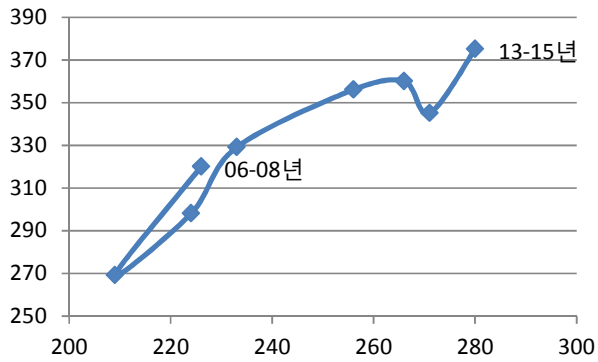
생체계측 기타



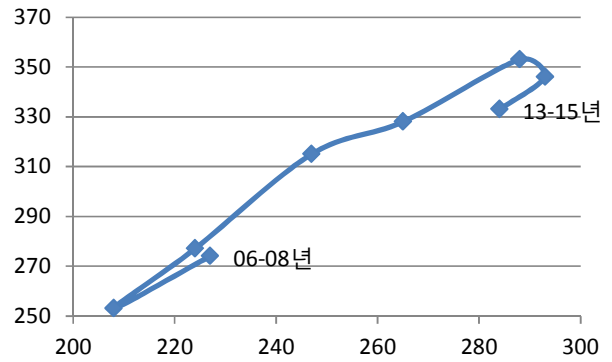
임플란트



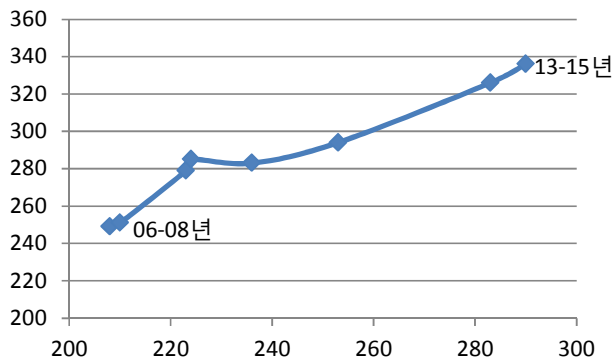
치과기기 기타



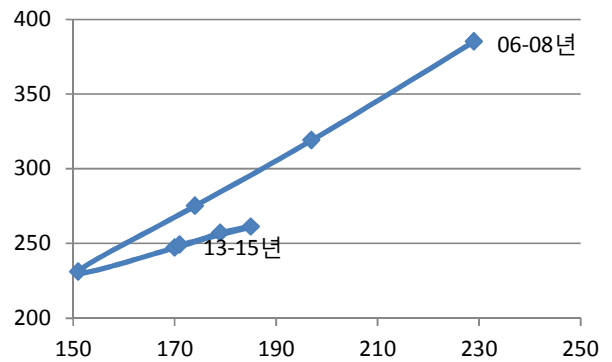
재활보조 기타

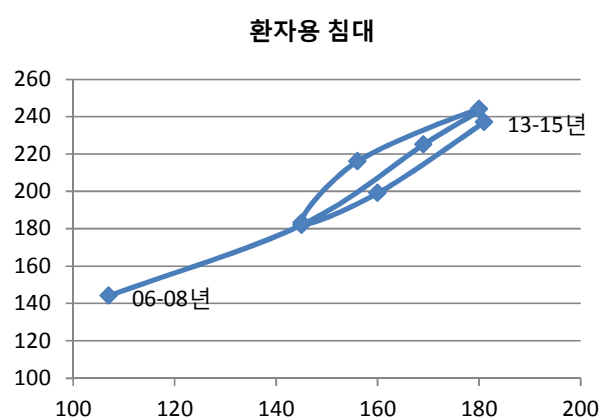
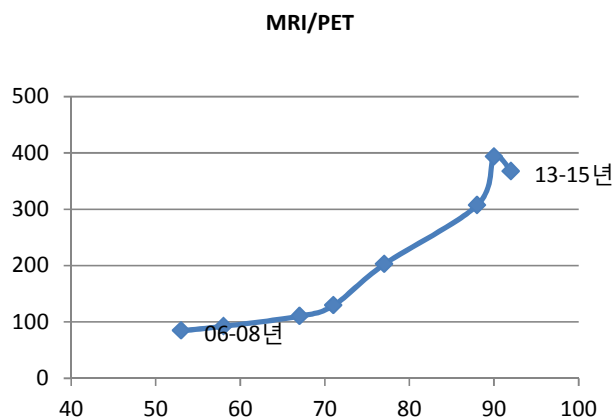
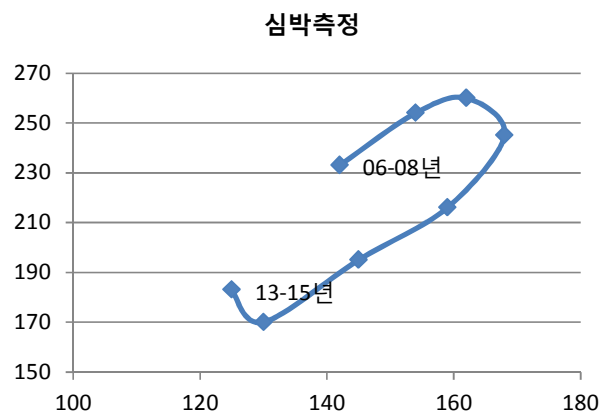
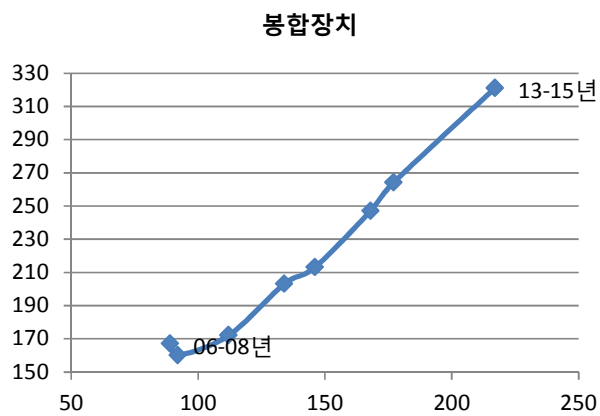
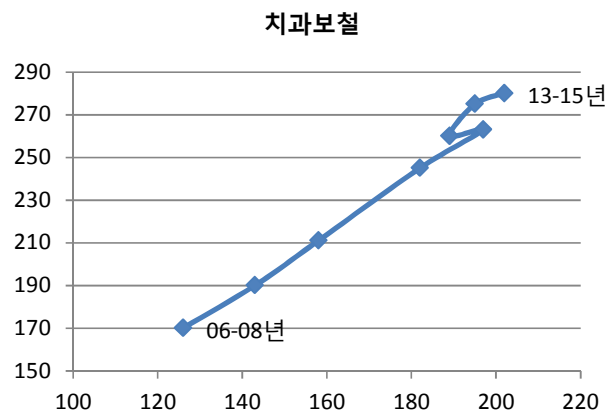
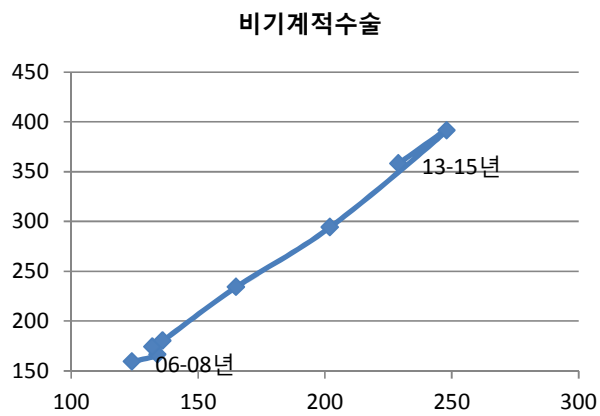
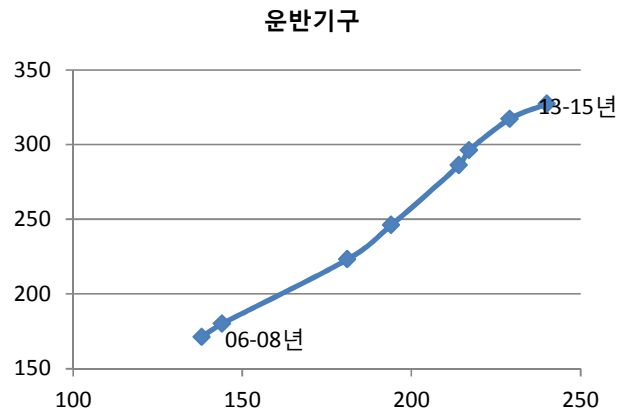
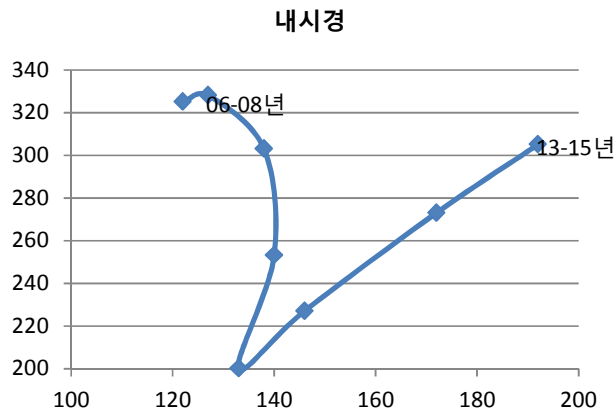


외과용품

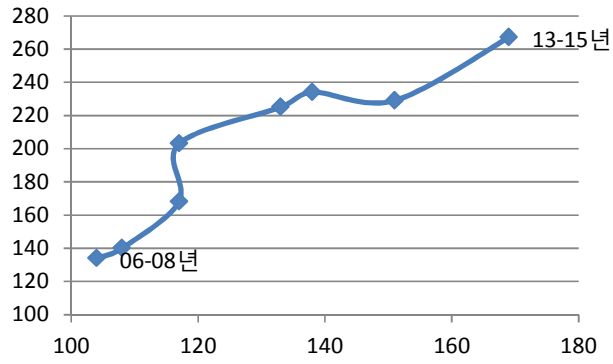


인공관절

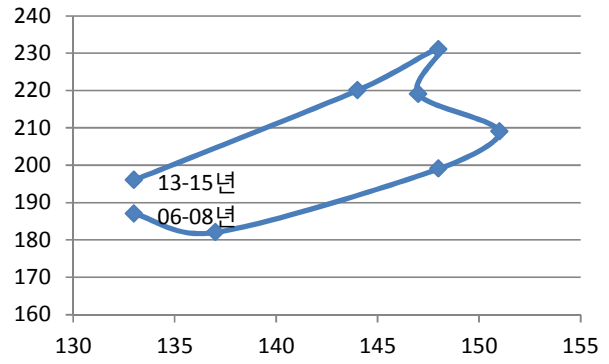




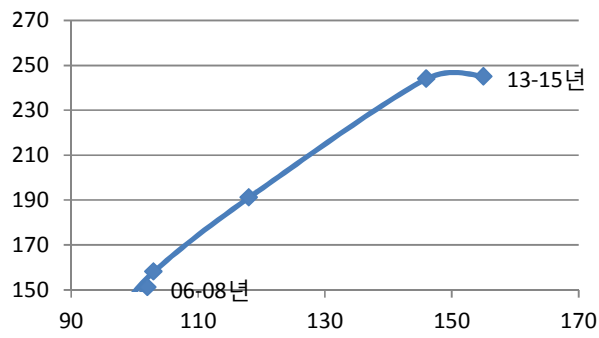
교정기



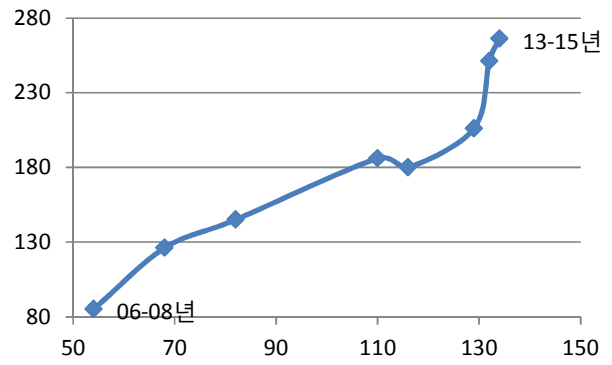
절삭기



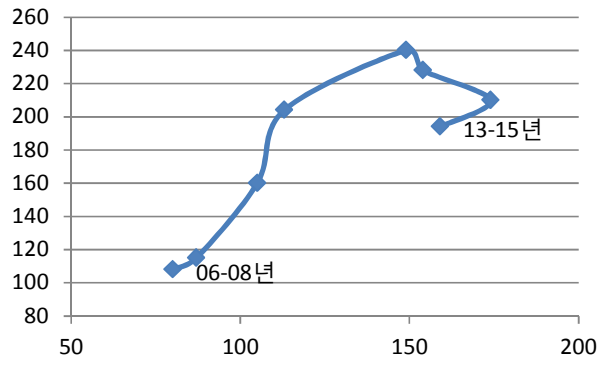
심전계



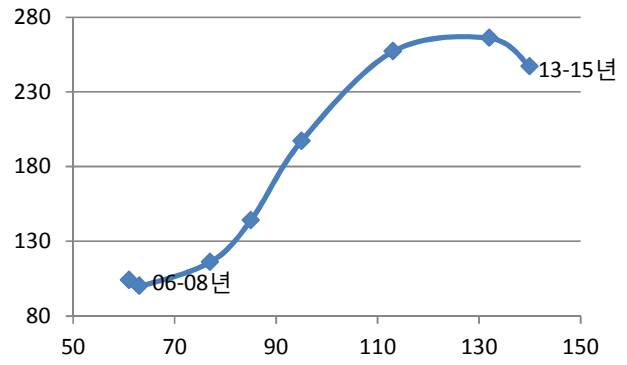
스텐트



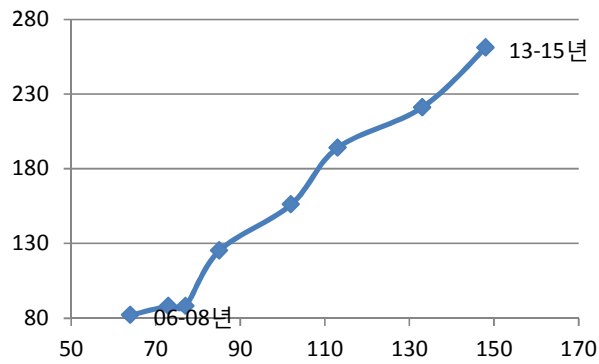
순환장치



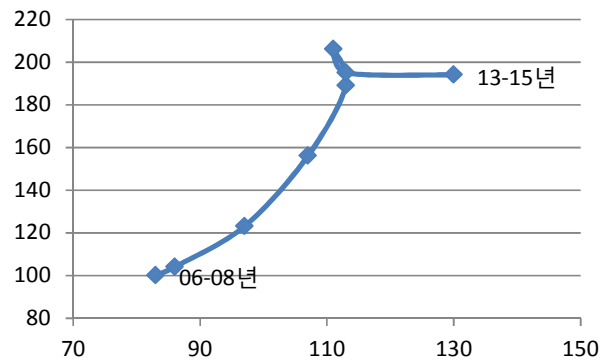
검안장치



충격파치료



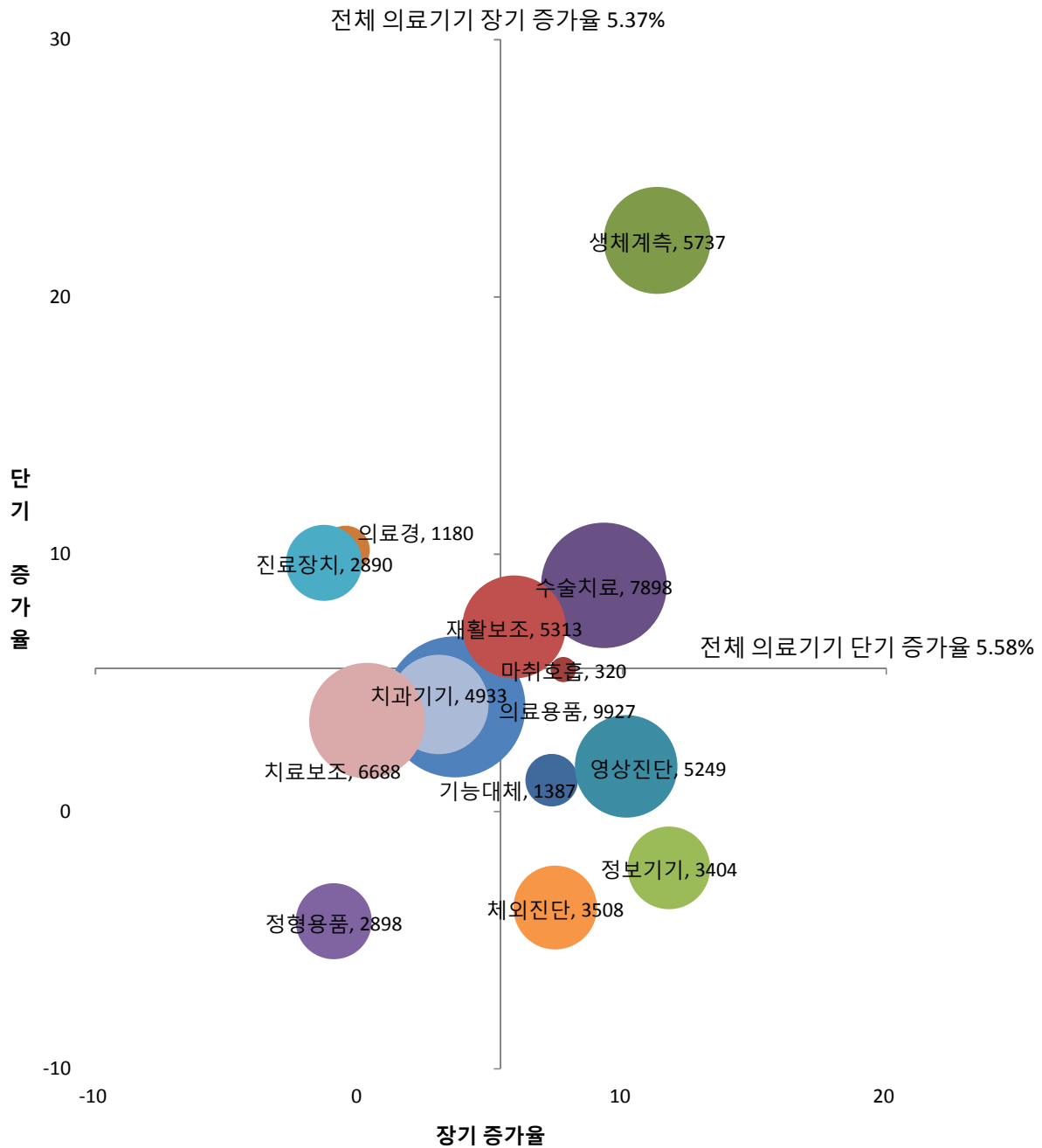
청각기구



Ⅲ. 장단기 특허 증가율 추이 분석 결과

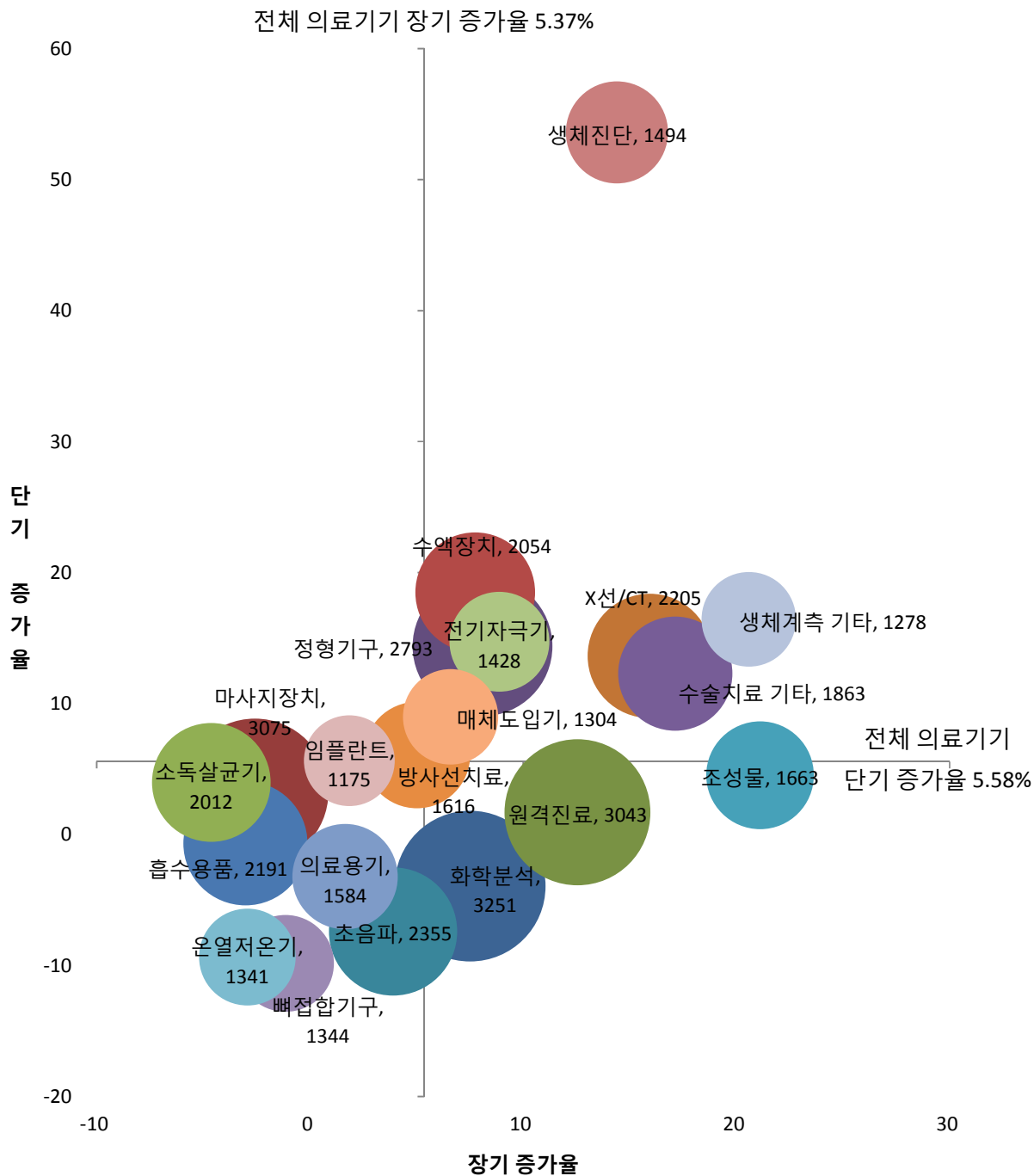
1. 주요 소분류별 출원 증가율 분석

□ 중분류 출원 증가율



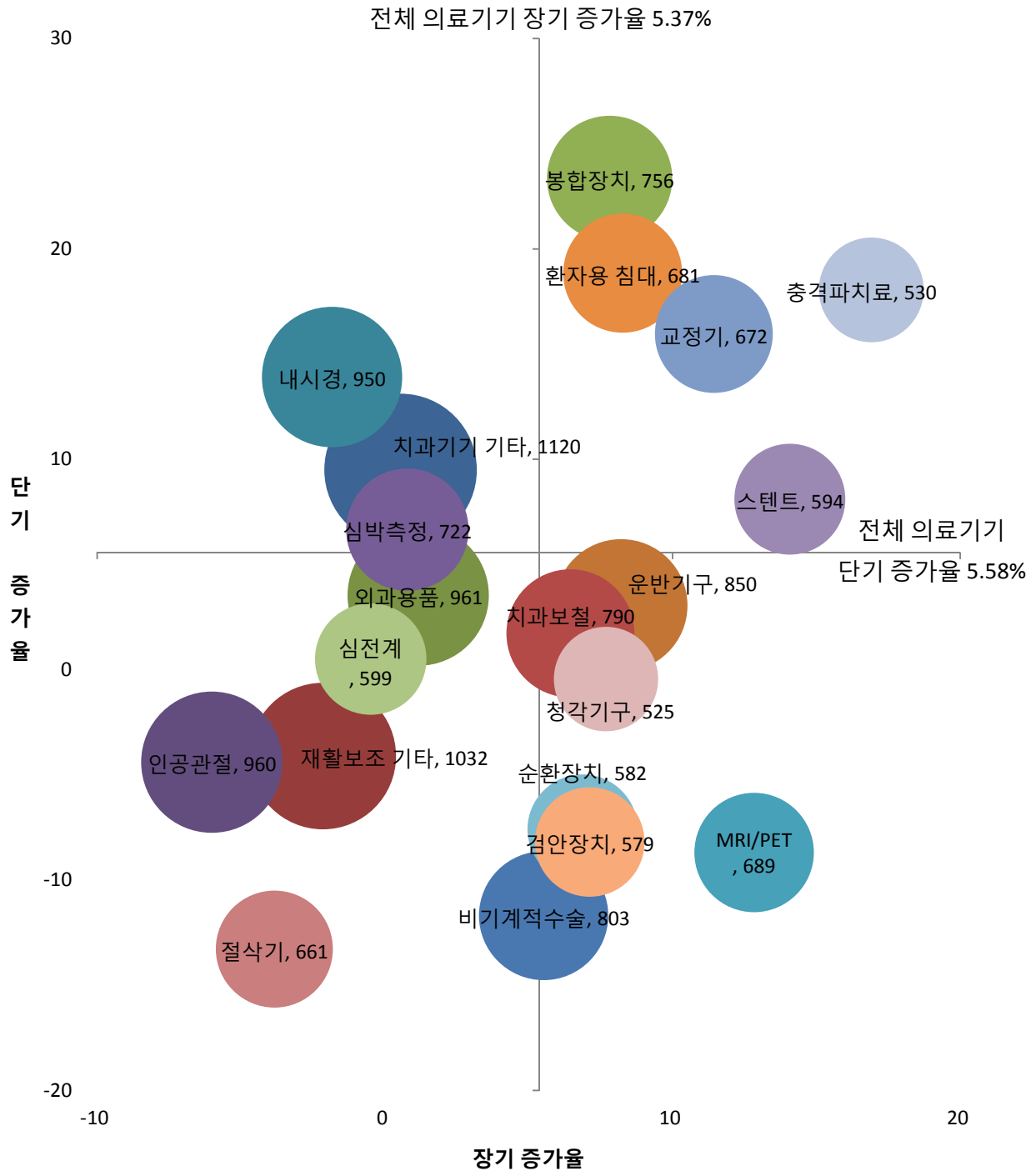
그룹	증가율		해당 분류
	장기	단기	
A	高	高	수술치료, 생체계측, 재활보조
B	高	低	영상진단, 체외진단, 정보기기, 기능대체, 마취호흡
C	低	高	진료장치, 의료경
D	低	低	의료용품, 치료보조, 치과기기, 정형용품

□ 소분류 1그룹(출원 상위 1~20위 그룹) 출원 증가율



그룹	증가율		해당 분류
	장기	단기	
A	高	高	정형기구, X선/CT, 수액장치, 생체진단, 전기자극기, 매체도입기, 수술치료 기타, 생체계측 기타
B	高	低	화학분석, 원격진료, 조성물
C	低	高	방사선치료, 임플란트
D	低	低	마사지장치, 초음파, 흡수용품, 소독살균기, 의료용기, 뼈접합기구, 온열저온기

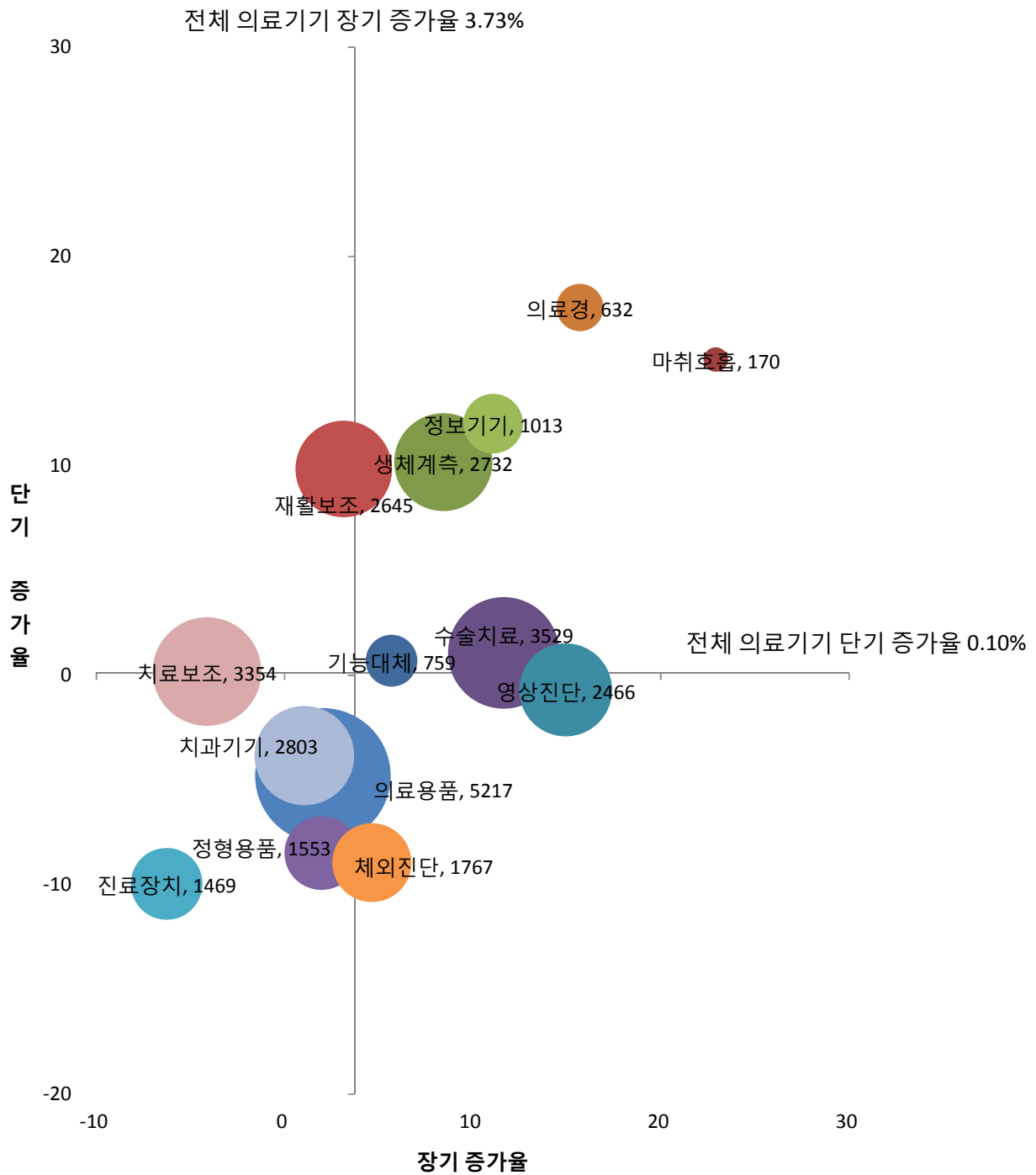
□ 소분류 2그룹(출원 상위 21~40위 그룹) 출원 증가율



그룹	증가율		해당 분류
	장기	단기	
A	高	高	붕합장치, 교정기, 환자용 침대, 스텐트, 충격파치료
B	高	低	운반기구, 비기계적수술, 치과보철, MRI/PET, 순환장치, 검안장치
C	低	高	내시경, 심박측정, 치과기기 기타
D	低	低	외과용품, 인공관절, 절삭기, 심전계, 재활보조 기타

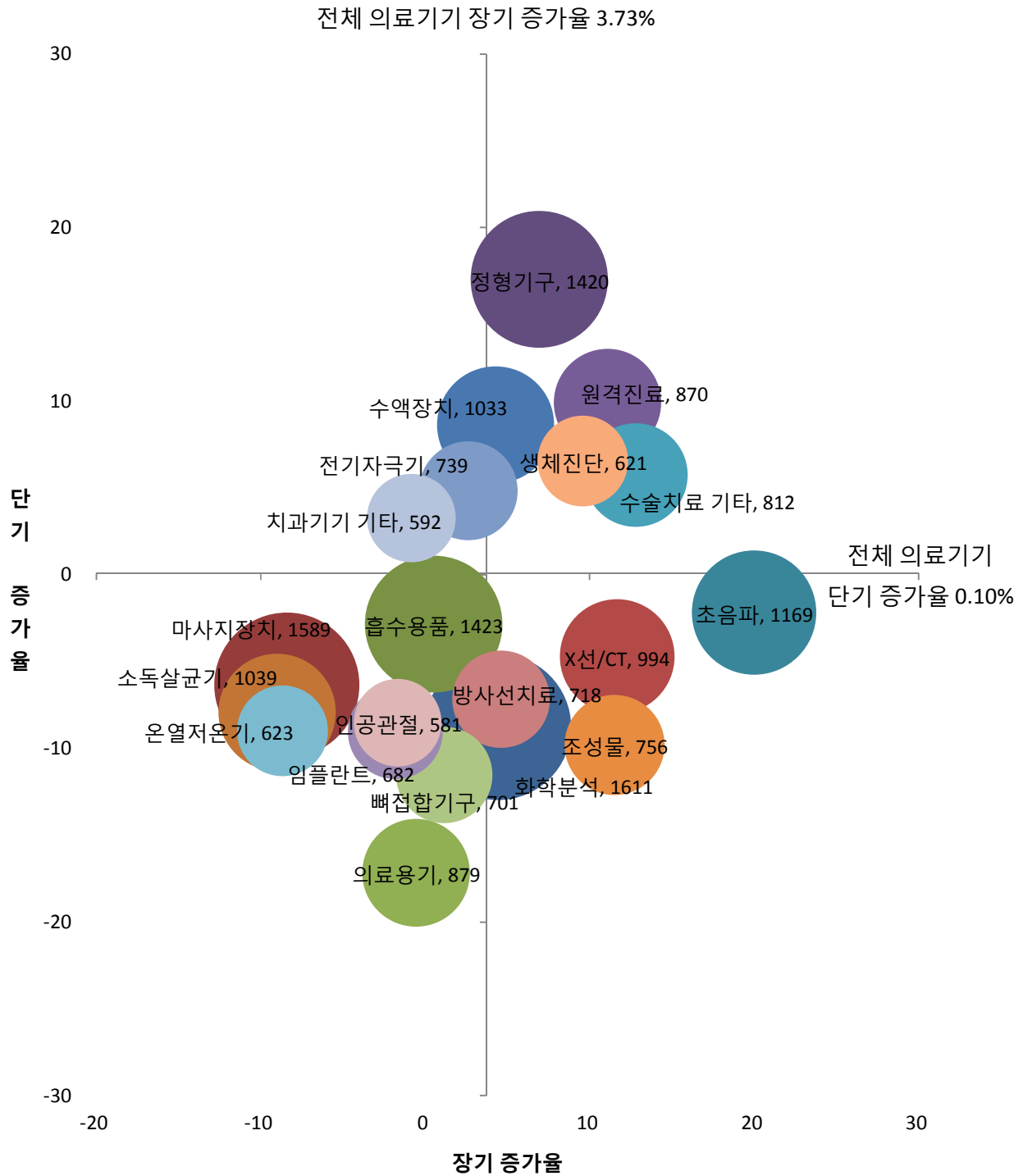
2. 주요 소분류별 등록 증가율 분석

□ 중분류 등록 증가율



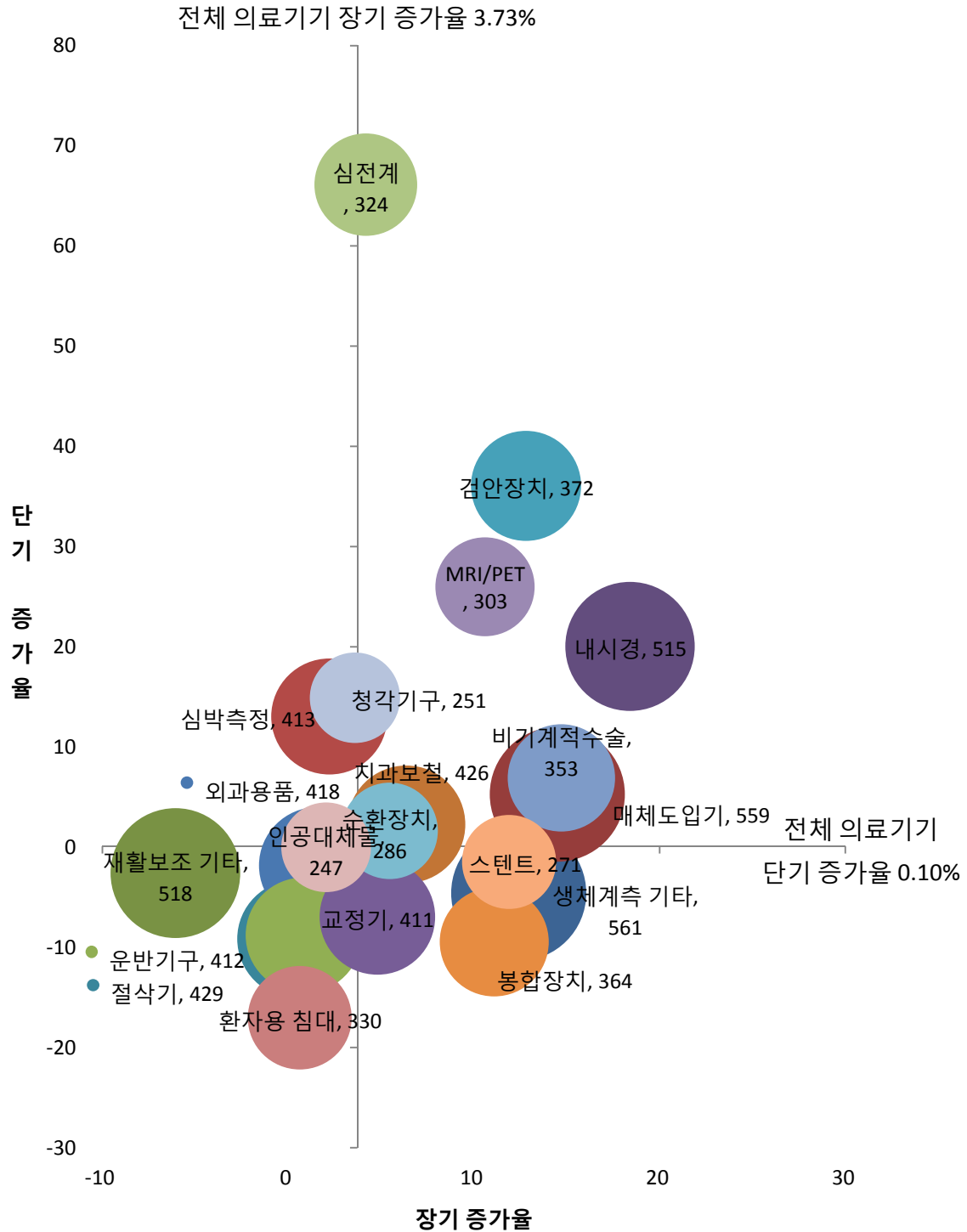
그룹	증가율		해당 분류
	장기	단기	
A	高	高	수술치료, 생체계측, 정보기기, 기능대체, 의료경, 마취호흡
B	高	低	영상진단, 체외진단
C	低	高	재활보조, 치료보조
D	低	低	의료용품, 치과기기, 진료장치, 정형용품

□ 소분류 1그룹(등록 상위 1~20위 그룹) 등록 증가율



그룹	증가율		해당 분류
	장기	단기	
A	高	高	정형기구, 수액장치, 원격진료, 생체진단, 수술치료 기타
B	高	低	화학분석, 초음파, X선/CT, 방사선치료, 조성물
C	低	高	전기자극기, 치과기기 기타
D	低	低	마사지장치, 흡수용품, 소독살균기, 의료용기, 임플란트, 뼈접합기구, 온열저온기, 인공관절

□ 소분류 2그룹(등록 상위 21~40위 그룹) 등록 증가율



그룹	증가율		해당 분류
	장기	단기	
A	高	高	매체도입기, 내시경, 치과보철, 검사장치, 비기계적수술, MRI/PET, 순환장치
B	高	低	교정기, 융합장치, 스텐트, 생체계측 기타
C	低	高	심박측정, 청각기구
D	低	低	외과용품, 절삭기, 윤반기구, 환자용 침대, 인공대체물, 재활보조 기타