



전혀 어렵지 않아요~

# "논문 Figure 정리방법 및 논문 일러스트레이션 의뢰방법"

Medical Illustrator  
장 동 수

 **MID**  
Medical Illustration & Design

[studiomid.com](http://studiomid.com)

# Figure types

Line Art

Grayscale

Halftones

Combination Figures

**Format**

**Tiff or EPS**

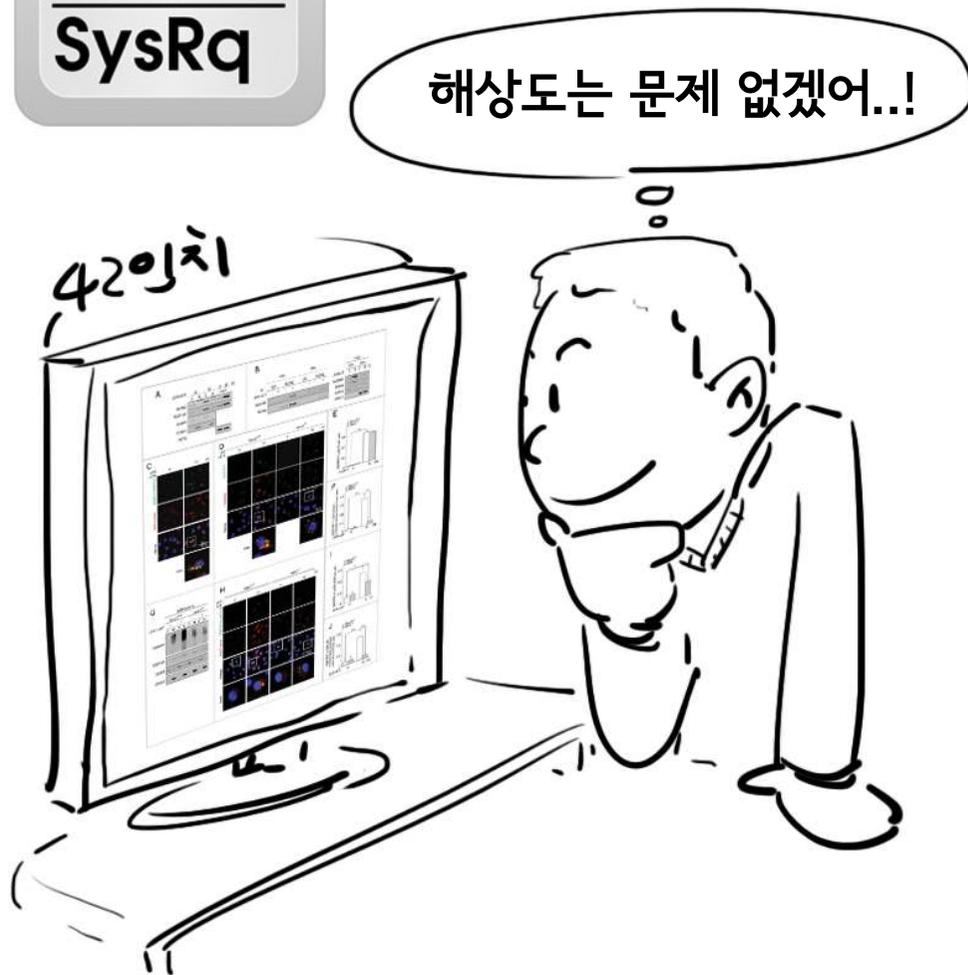
**Minimum Resolution: 300 dpi**

Tiff : Tagged Image File Format

EPS: Encapsulated PostScript



**Print  
Screen  
SysRq**





PPT

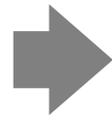


PSD

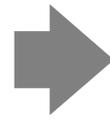


Tiff

PPT



Ai



Tiff & eps

Eps, wmf,  
emf, 기타

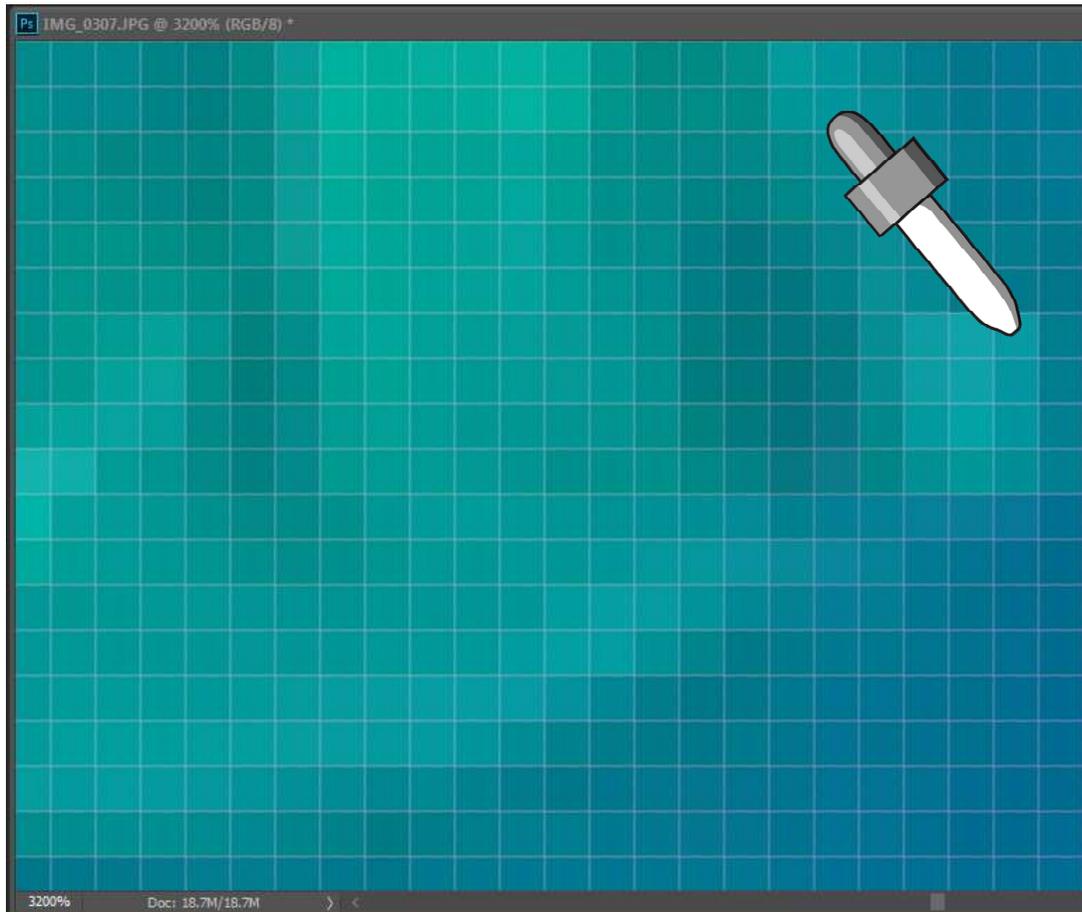


**Bitmap**



**Vector**





### Color Picker (Foreground Color)

new  
current

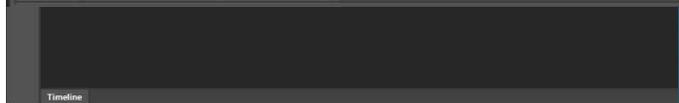
OK  
Cancel  
Add to Swatches  
Color Libraries

H: 183 °     L: 61  
 S: 91 %     a: -34  
 B: 67 %     b: -15

R: 16    C: 78 %  
 G: 163    M: 15 %  
 B: 171    Y: 34 %  
# 10a3ab    K: 0 %

Only Web Colors

Detailed description: This is a screenshot of the 'Color Picker (Foreground Color)' dialog box in Photoshop. It features a color selection area with a white circle, a vertical color bar, and various color models (HSL, Lab, RGB, CMYK). The RGB values are highlighted with a red box: R: 16, G: 163, B: 171. The hex code #10a3ab is also displayed.



File Size: 18.7M

Dimensions: 3412 px × 1920 px

Fit To: Original Size

Width: 120.37 Centimeters

Height: 67.73 Centimeters

Resolution: 72 Pixels/Inch

Resample: Automatic

OK    Cancel

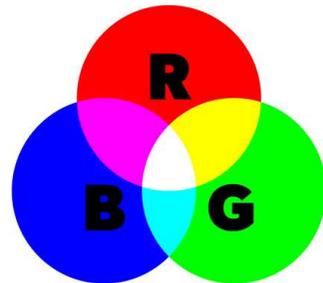
Detailed description: This is a screenshot of the Photoshop Properties panel for a video frame. It shows the file size (18.7M), dimensions (3412 px x 1920 px), and fit-to settings (Original Size). The width and height are shown in centimeters (120.37 and 67.73 respectively), and the resolution is 72 pixels per inch. The 'Resample' checkbox is checked and set to 'Automatic'.





# RGB

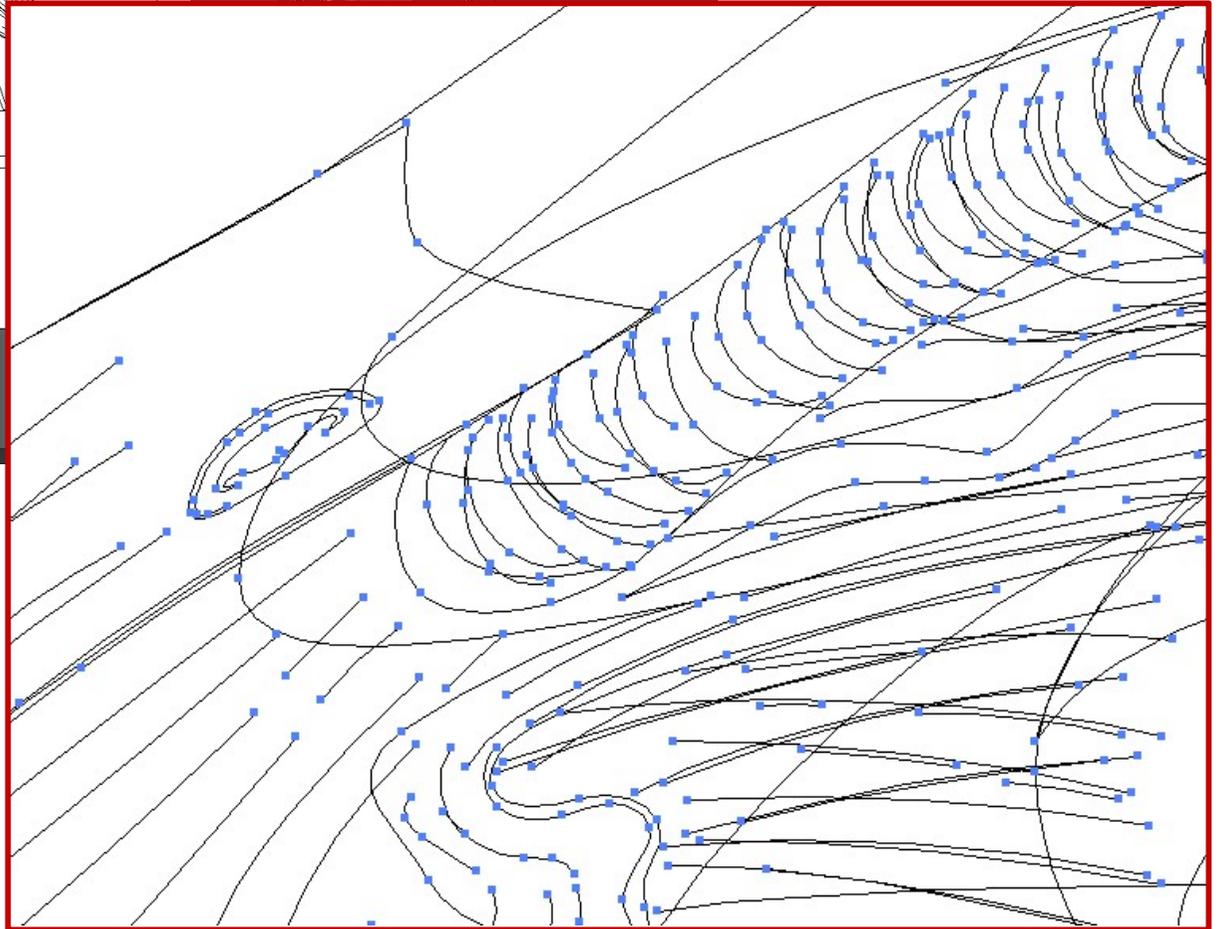
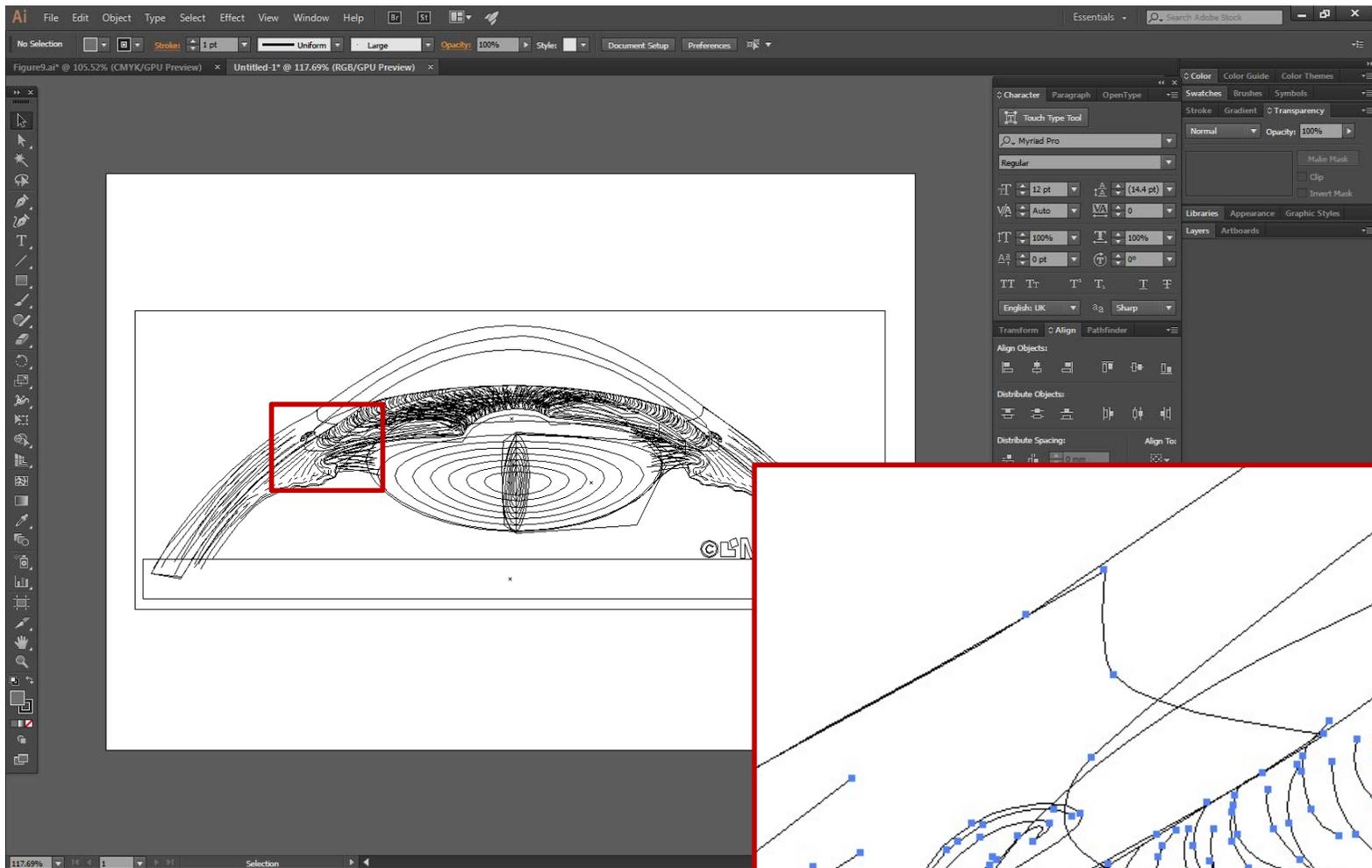
R 247  
G 4  
B 0



# CMYK

C 7  
M 86  
Y 87  
K 0





# Bitmap

PSD

TIFF

JPEG

GIF

PNG

...

# Vector

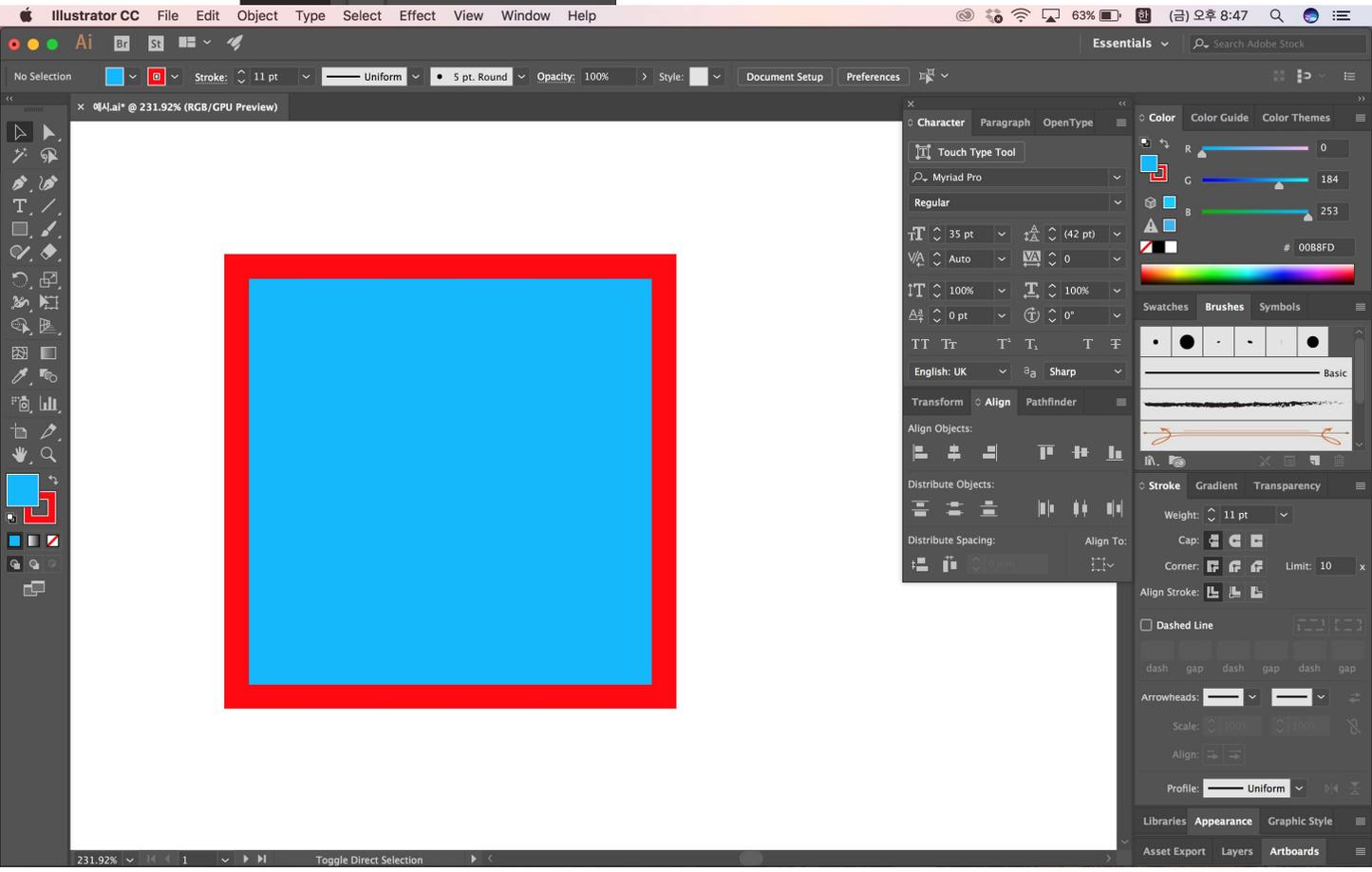
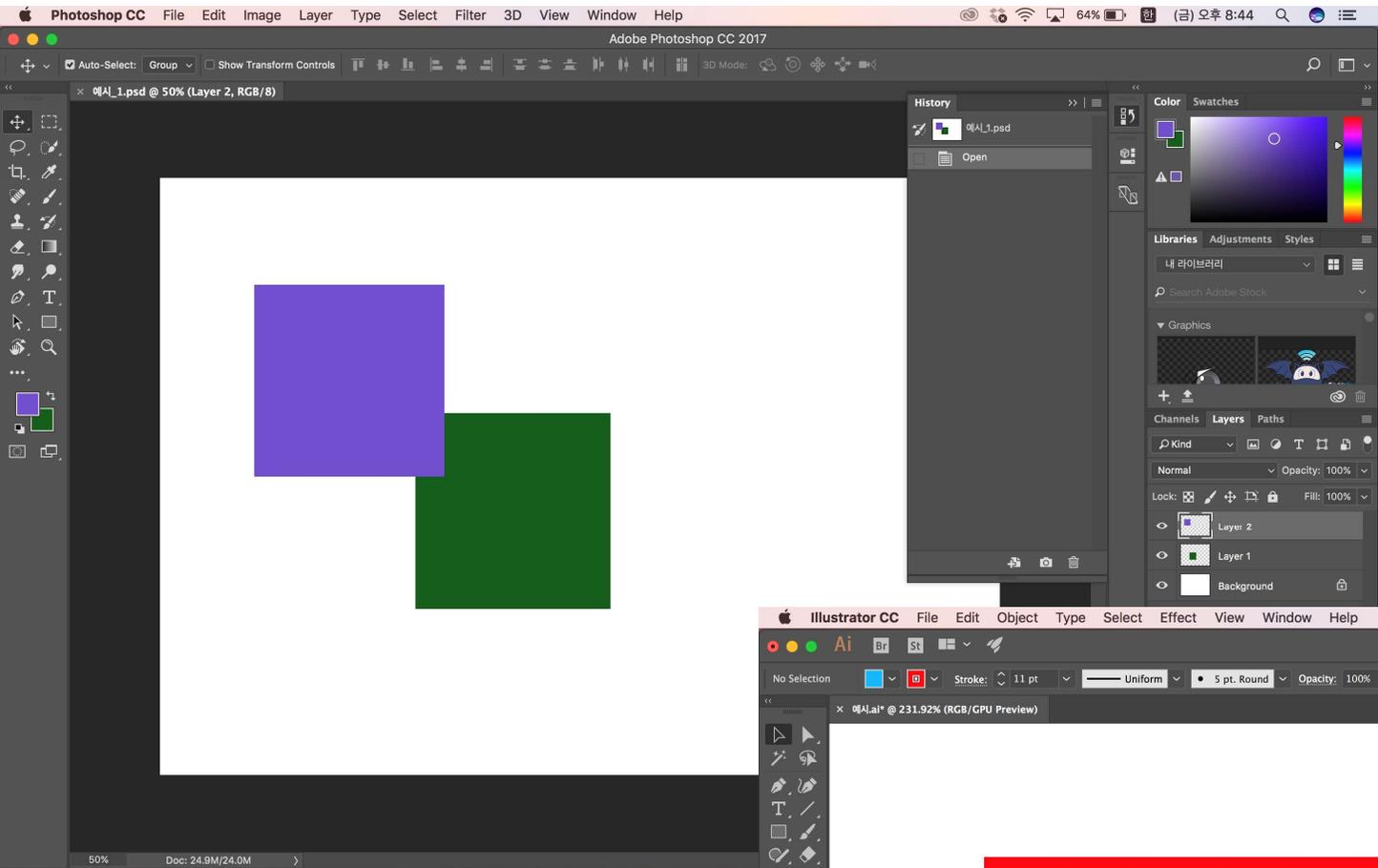
AI

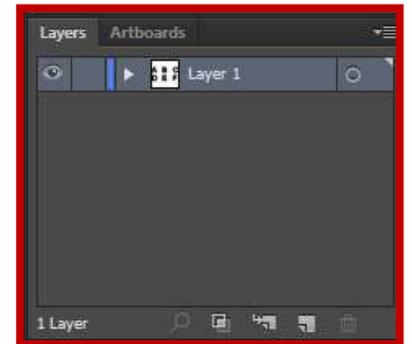
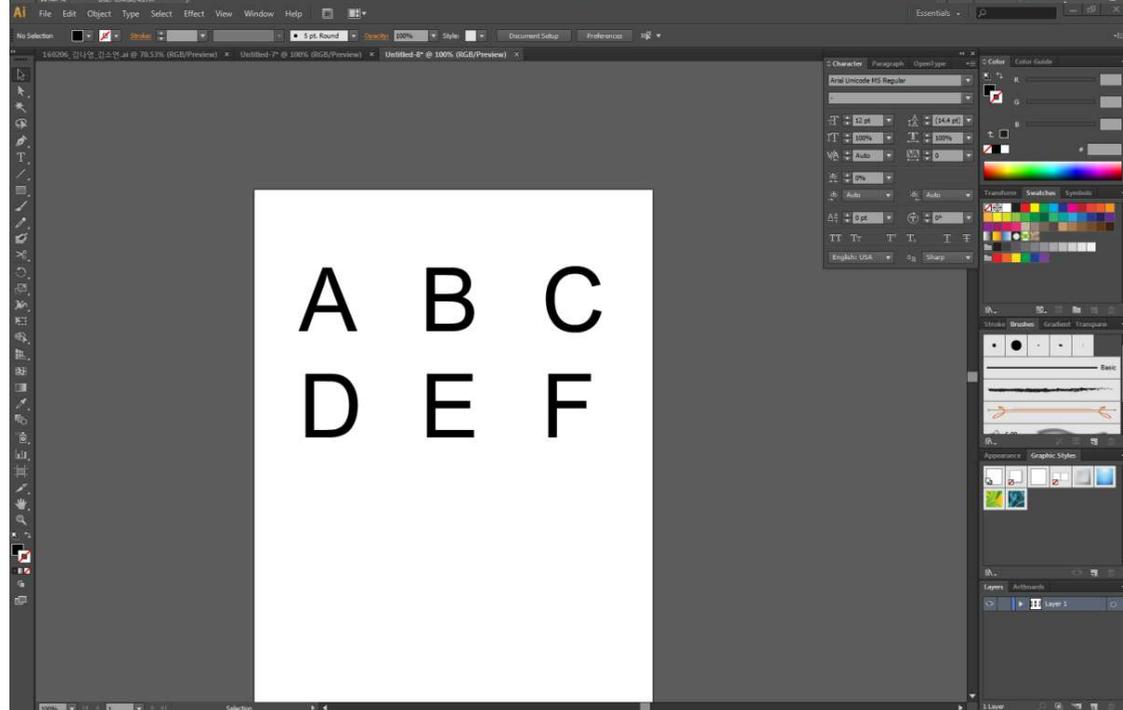
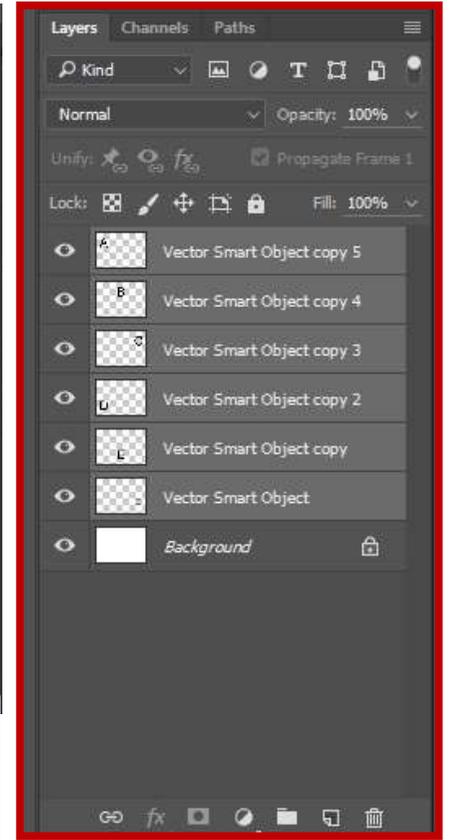
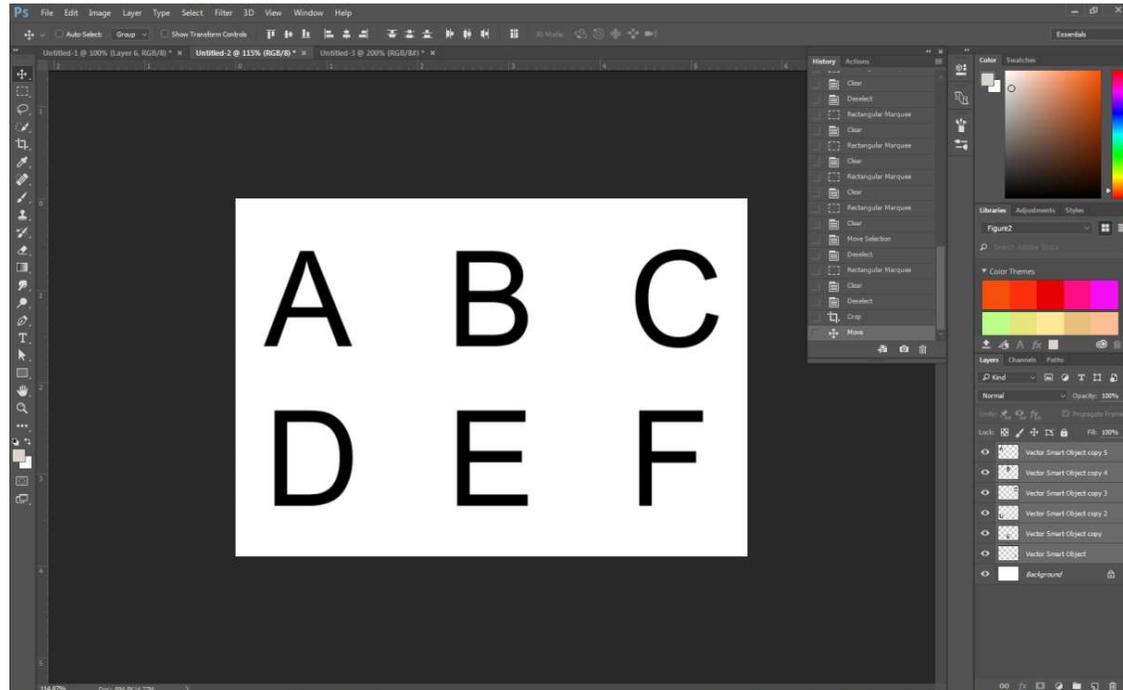
EPS

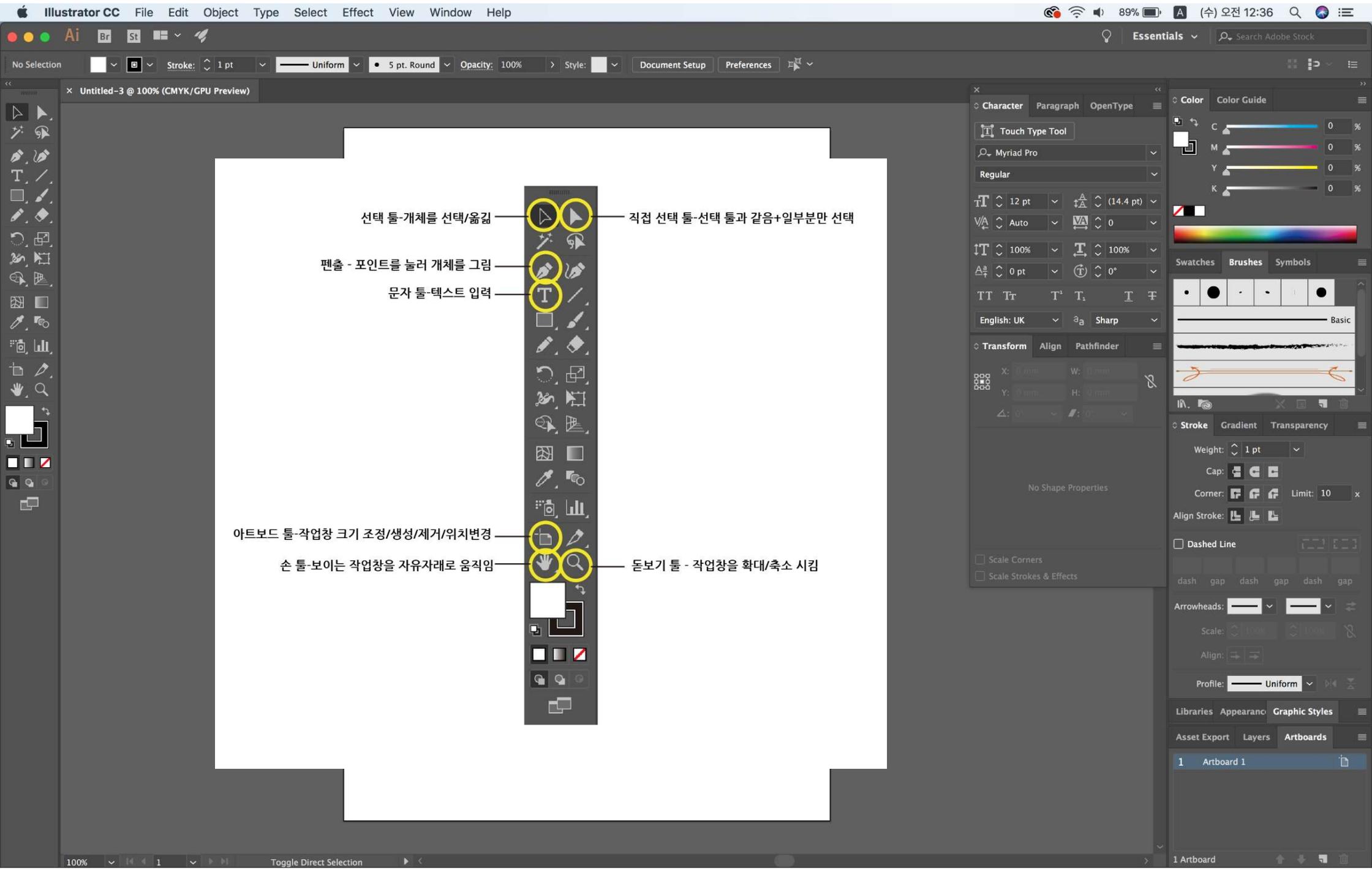
EMF

WMF

...







선택 툴-개체를 선택/옮김      직접 선택 툴-선택 툴과 같음+일부분만 선택

펜툴 - 포인트를 눌러 개체를 그림

문자 툴-텍스트 입력

아트보드 툴-작업창 크기 조정/생성/제거/위치변경

손 툴-보이는 작업창을 자유자재로 움직임      돋보기 툴 - 작업창을 확대/축소 시킴

# Window 단축키

control + c 복사

control + v 붙여넣기

control + z 실행 취소

control + x 잘라내기

control + f 앞으로 가져오기

control + b 뒤로 보내기

control + 2 고정하기

control + alt + 2 고정해제

control + 3 감추기

control + alt + 3 나타내기

control + G 그룹하기

control + shift + G 그룹풀기

# Mac 단축키

command + c 복사

command + v 붙여넣기

command + z 실행 취소

command + x 잘라내기

command + f 앞으로 가져오기

command + b 뒤로 보내기

command + 2 고정하기

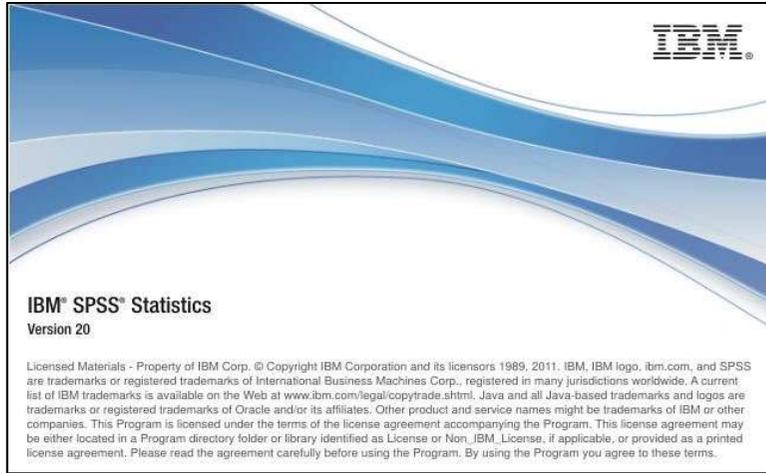
command + alt + 2 고정해제

command + 3 감추기

command + alt + 3 나타내기

command + G 그룹하기

command + shift + G 그룹풀기





- Log
  - NPar Tests
    - Title
    - Notes
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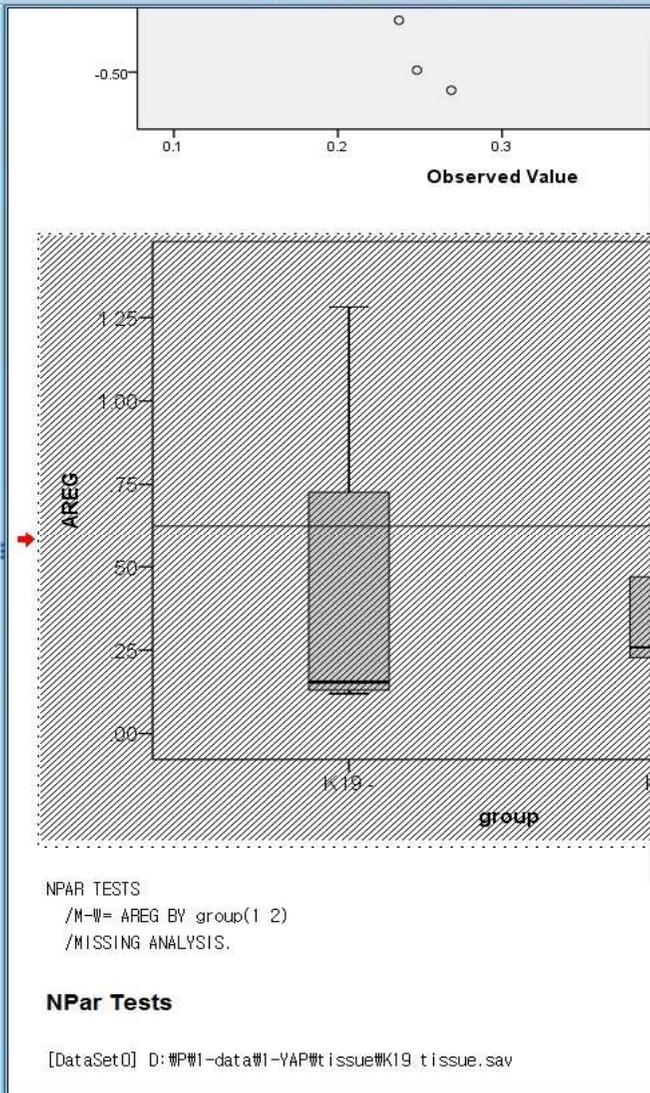


도표 편집기

파일(F) 편집(E) 보기(V) 옵션(O) 요소(M) 도움말(H)

Boxplot showing the distribution of AREG values for two groups: K19- and K19+. The y-axis is labeled 'AREG' and ranges from 0.00 to 1.25. The x-axis is labeled 'group'. The K19- group has a median around 0.15, while the K19+ group has a median around 0.25.

특성

도표 크기 | 채움 및 경계 | 범주형 | **막대 옵션** | 변수

너비

막대(B) 28 %: 28

군집(U) 100 %: 100

상자, 종위수 선 및 오차막대 너비 연결(L)

빈도를 기준으로 한 척도 상자도표 및 오차막대 너비(S)

상자도표 및 오차막대 유형

- I형 막대
- 수평도표(W)
- 막대(B)

적용(A) | 닫기 | 도움말(H)



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  - Explore
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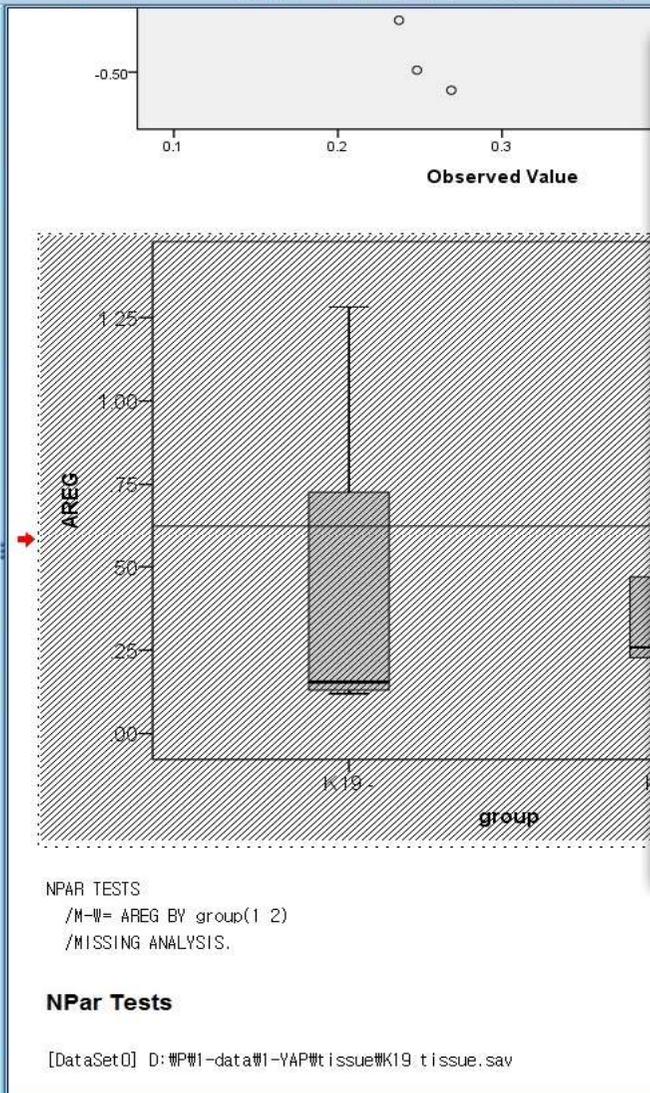


도표 편집기

파일(F) 편집(E) 보기(V) 옵션(O) 요소(M) 도움말(H)

arial 12 B I

특성

척도화분석 설명 & 라벨 숫자 형식 **변수**

도표 크기 텍스트 유형

미리보기(V)  
가나다 AaBbCc 123

글꼴  
글꼴군(F): SansSerif 유형(Y): 정규  
크기(S): 12 선평 크기(P): 12 최소 크기(M): 6

색상  
■ 텍스트 색상(C)  
(0, 0, 0)

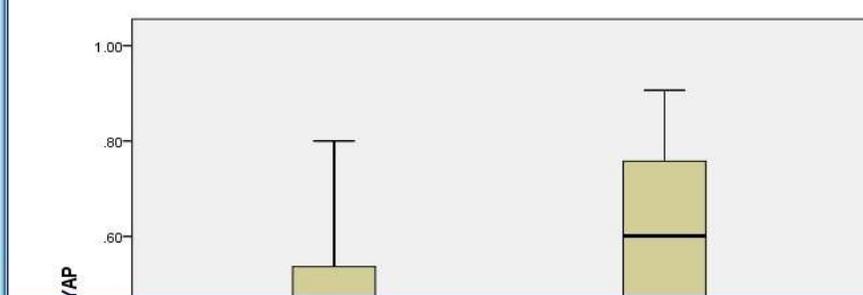
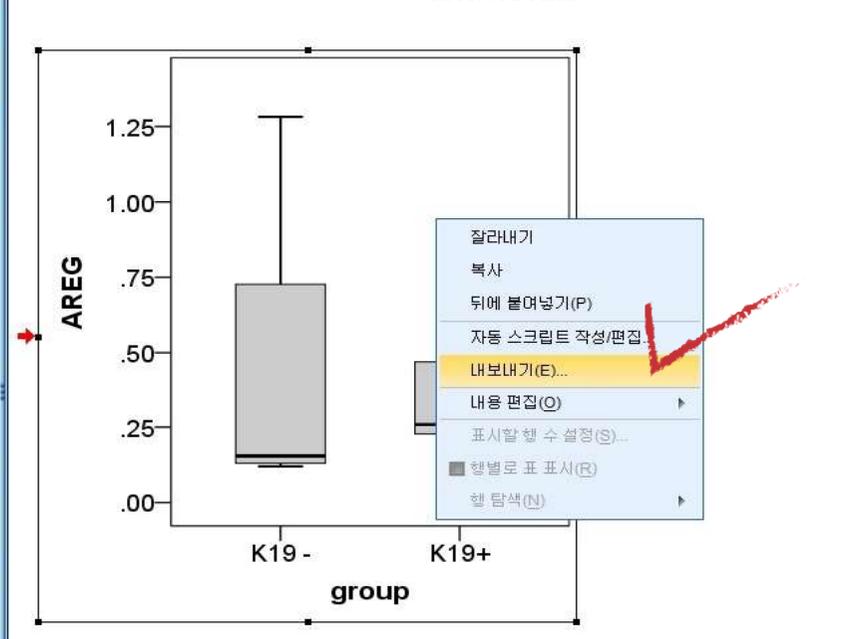
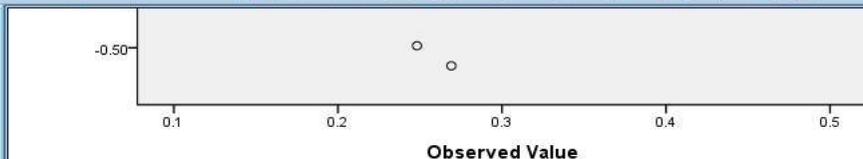
편집(E) 재설정(R)

(0, 0, 0)

적용(A) 닫기 도움말(H)



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  - Title
  - Notes
  - Active Dataset
  - Mann-Whitney Te
  - Title
  - Ranks
  - Test Statistic
- Log
- Explore
  - Title
  - Notes



### 내보내기 출력결과

내보내기 개체  
 모두(A)  모두 표시(V)  선택(O)

문서  
유형(T): 없음 (그래픽만) 옵션(O): 모형 보기 인쇄 설정에 유효(각 모형에 대한 ...)

**i** 그래픽 개체만 내보내집니다. 여러 그래픽 파일 형식을 사용할 수 있습니다.

옵션 변경(C)...

파일 이름(F): F:\연구부파일\데드라이브\연구부파일\일러스트작업\외과학교실\이형순(강사)\2\OUTPUT.xls  
찾아보기(B)...

그래픽  
유형(Y): 캡슐화된 포스트스크립트 (\*.eps) 옵션(S): 이미지 크기 유형 현재 크기의 백분율(P)  
크기(백분율) 100  
TIFF 미리 보기 이미지 포함 아니오

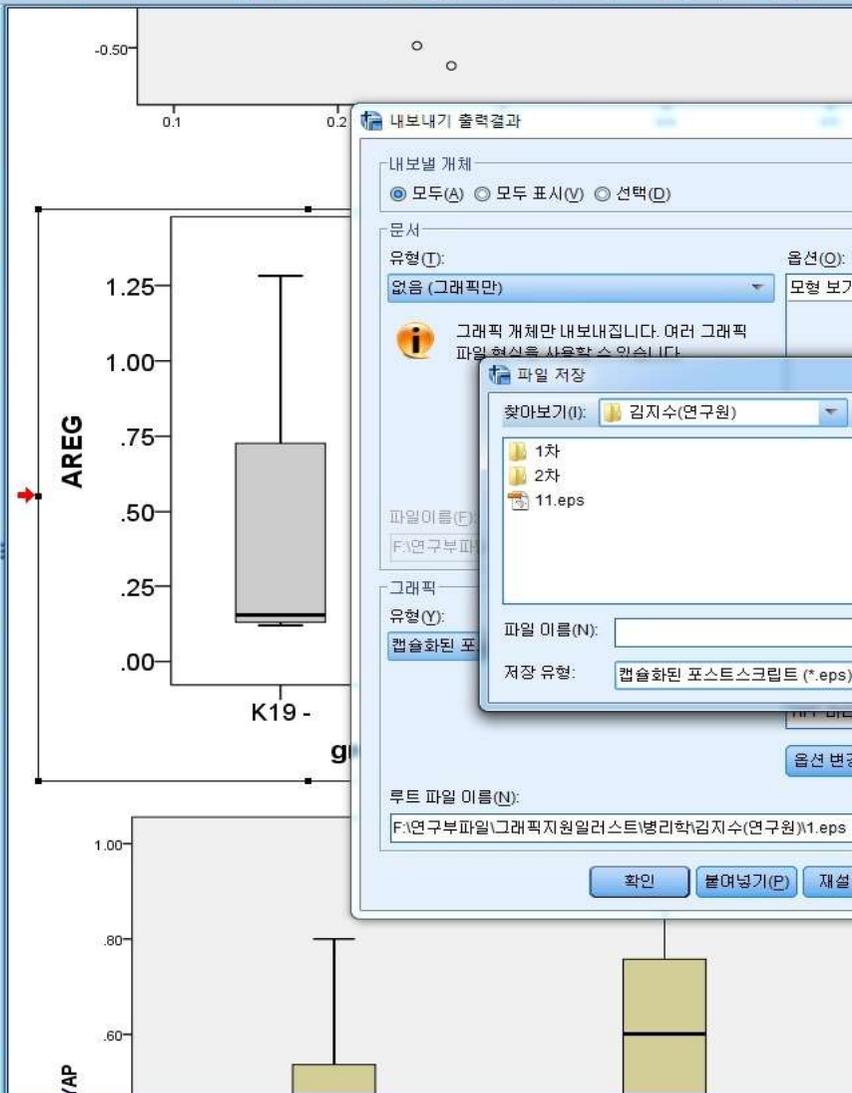
옵션 변경(H)...

루트 파일 이름(N): F:\연구부파일\그래픽지원\일러스트\병리학검지수(연구원)\1.eps  
찾아보기(W)...

확인 붙여넣기(P) 재설정(R) 취소 도움말



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- Explore
- Title
- Notes



내보내기 출력결과

내보낼 개체  
 모두(A)  모두 표시(V)  선택(O)

문서  
유형(T): 없음 (그래픽만) 옵션(O): 모형 보기 인쇄 설정에 유효(각 모형에 대한...)

그래픽 개체만 내보내집니다. 여러 그래픽 파일 형식을 사용할 수 있습니다.

파일 저장

찾아보기(F): 김지수(연구원)

- 1차
- 2차
- 11.eps

파일 이름(F): F:\연구부파일\그래픽지원\리스트\병리학김지수(연구원)1.eps

파일 이름(N): 저장

저장 유형: 캡슐화된 포스트스크립트 (\*.eps) 취소

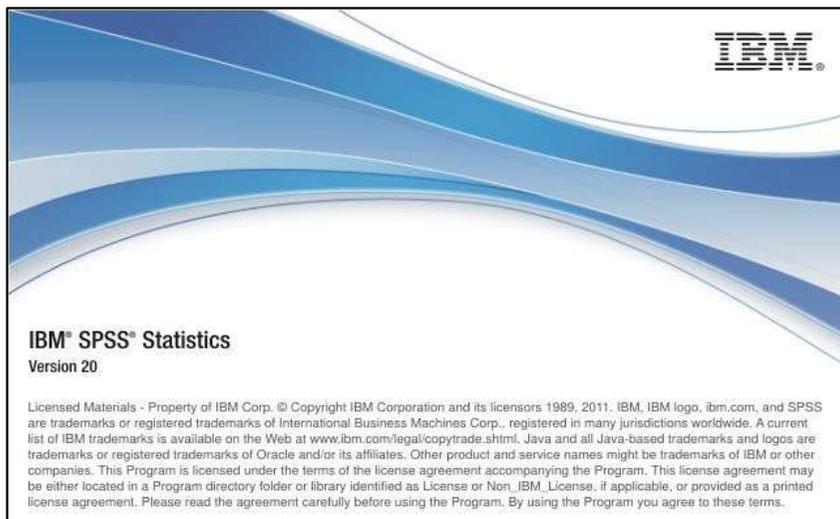
옵션 변경(H)...

루트 파일 이름(N): F:\연구부파일\그래픽지원\리스트\병리학김지수(연구원)1.eps

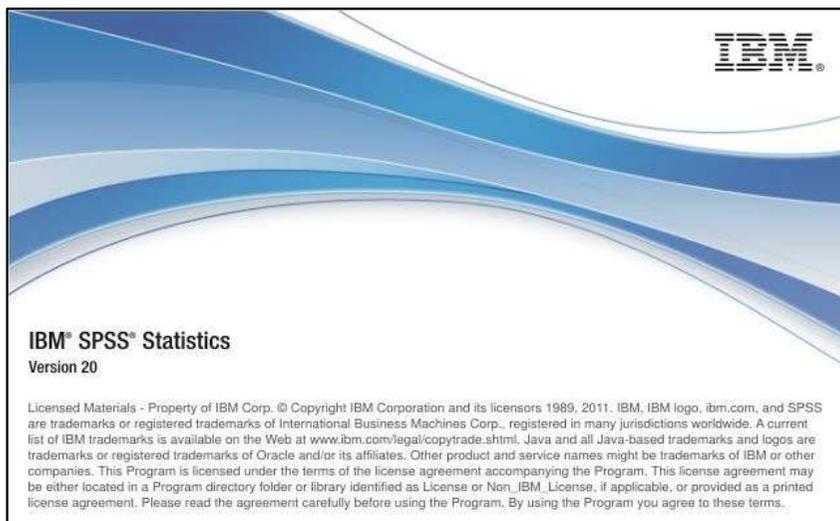
찾아보기(W)...

확인 불어넣기(P) 재설정(R) 취소 도움말

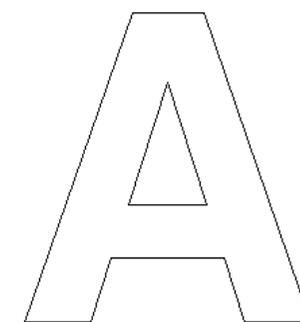
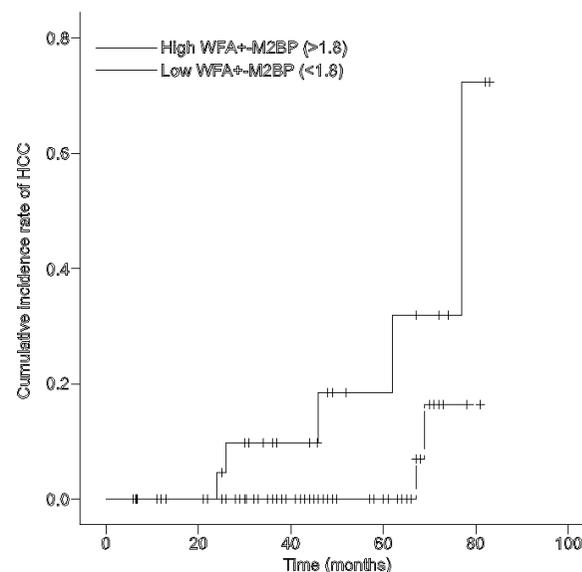
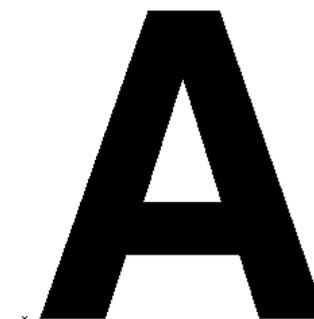
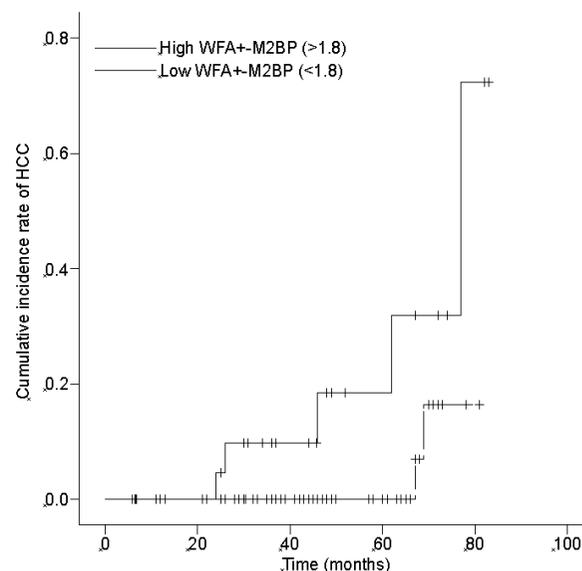
# eps

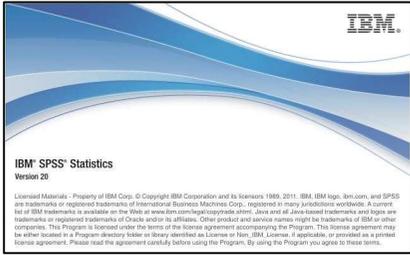


# Version 19



# Version 20





File Edit Object Type Select Effect View Window Help

Untitled-3 @ 100% (RGB/Preview)

- New Window
- Arrange
- Workspace
- Extensions
- Control
- Tools
- Actions
- Align** Shift+F7
- Appearance Shift+F6
- Artboards
- Attributes Ctrl+F11
- Brushes F5
- Color F6
- Color Guide Shift+F3
- Document Info
- Flattener Preview
- Gradient Ctrl+F9
- Graphic Styles Shift+F5
- Image Trace
- Info Ctrl+F8
- Layers F7
- Links
- Magic Wand
- Navigator
- Pathfinder Shift+Ctrl+F9
- Pattern Options
- Separations Preview
- Stroke Ctrl+F10
- SVG Interactivity
- Swatches
- Symbols Shift+Ctrl+F11
- Transform Shift+F8
- Transparency Shift+Ctrl+F10
- Type
- Variables
- Brush Libraries
- Graphic Style Libraries
- Swatch Libraries
- Symbol Libraries
- Untitled-3 @ 100% (RGB/Preview)

Transform **Align** Pathfinder

Align Objects:



Distribute Objects:



Distribute Spacing: 0 mm

Align To:



Color Color Guide

R 35  
G 31  
B 32  
# 231F20

Transform Swatches Symbols

X: 0 in. W: 0 in.  
Y: 0 in. H: 0 in.  
0° 0°

Stroke Brushes Gradient Transparency

Basic

6.00

Appearance Graphic Styles

Layers Artboards

Layer 1

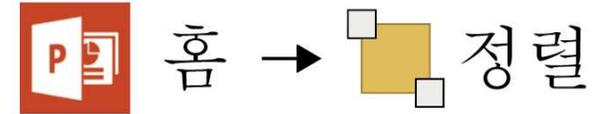


가운데 맞춤    오른쪽 맞춤    위쪽 맞춤

왼쪽 맞춤    가운데 맞춤    아래쪽 맞춤

세로 간격을 동일하게    가로 간격을 동일하게

The image shows the 'Align' panel in Adobe Illustrator. It is divided into three sections: 'Align Objects', 'Distribute Objects', and 'Distribute Spacing'. The 'Align Objects' section contains six icons for left, center, right, top, middle, and bottom alignment. The 'Distribute Objects' section contains three icons for horizontal distribution and three for vertical distribution. The 'Distribute Spacing' section has two icons for equalizing spacing, with a '0 mm' value field. The 'Align To' section has a 'Align to Selection' icon. Korean labels with arrows point to each of these icons.



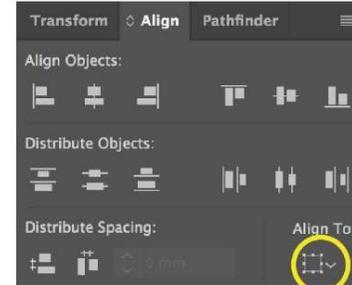
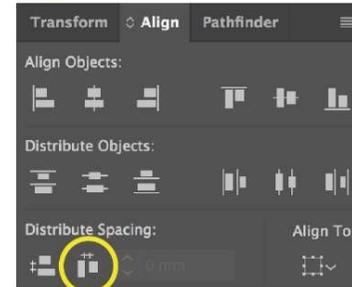
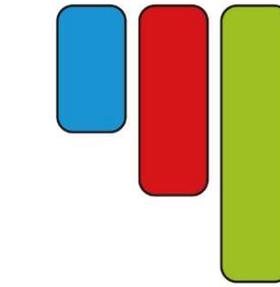
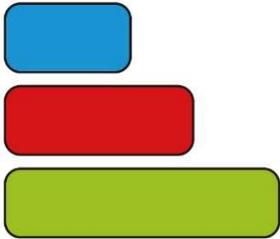
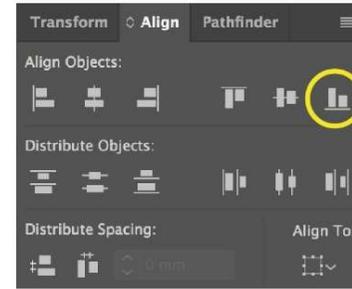
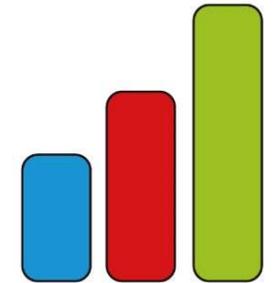
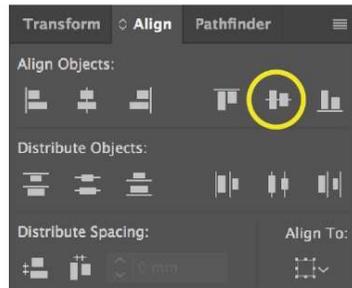
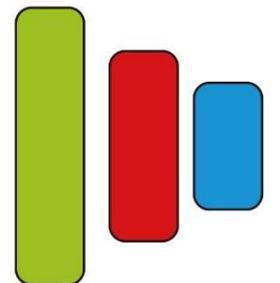
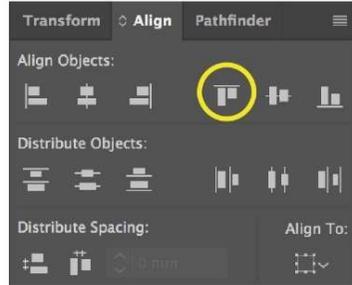
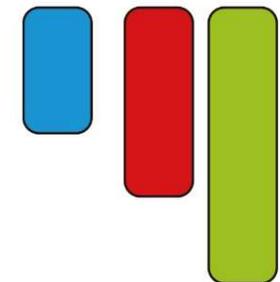
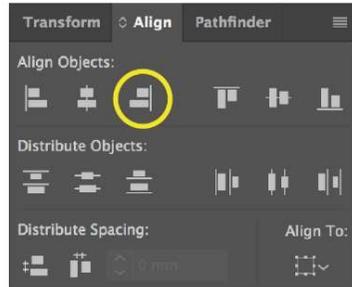
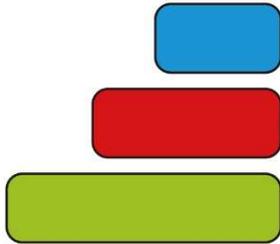
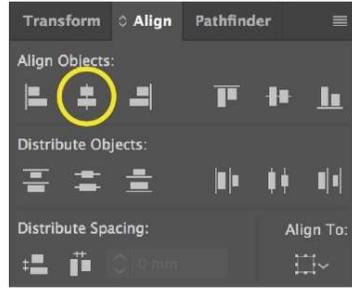
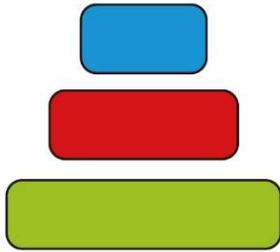
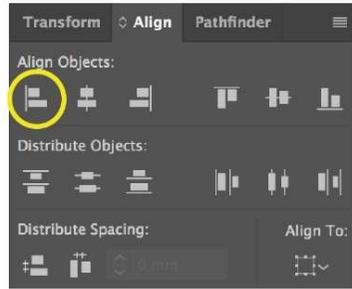
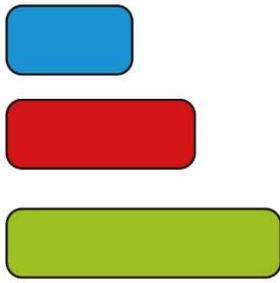
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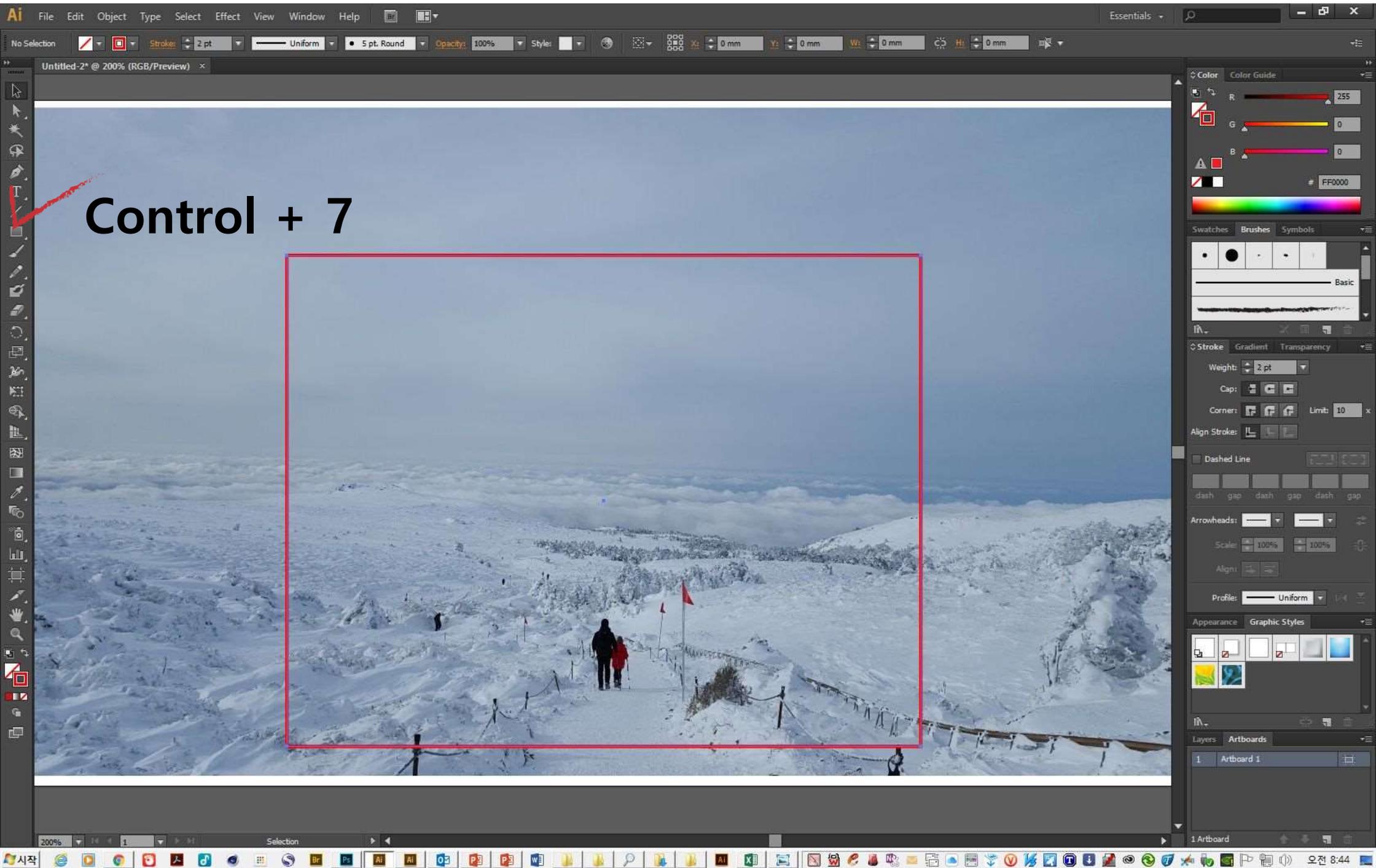
맞춤    회전    선택 창...

- 왼쪽 맞춤
- 가운데 맞춤
- 오른쪽 맞춤
- 위쪽 맞춤
- 가운데 맞춤
- 아래쪽 맞춤
- 가로 간격을 동일하게
- 세로 간격을 동일하게
- 슬라이드에 맞춤
- ✓ 선택한 개체 정렬

The image shows the 'Home' tab 'Align' menu in Microsoft PowerPoint. The menu is open, showing options for alignment and distribution. The options are: 'Align' (with a submenu arrow), 'Rotate', and 'Selection Pane'. The 'Align' submenu is expanded, showing: 'Align Left', 'Align Center', 'Align Right', 'Align Top', 'Align Middle', 'Align Bottom', 'Distribute Horizontally', 'Distribute Vertically', 'Align to Slide', and 'Align Selected Objects' (checked).







Control + 7

Untitled-2\* @ 150% (RGB/Preview)



Color Color Guide

R \_\_\_\_\_

G \_\_\_\_\_

B \_\_\_\_\_

Swatches Brushes Symbols

Stroke Gradient Transparency

Weight: \_\_\_\_\_

Cap: \_\_\_\_\_

Corner: \_\_\_\_\_ Limit: \_\_\_\_\_

Align Strokes: \_\_\_\_\_

Dashed Line

dash gap dash gap dash gap

Arrowheads: \_\_\_\_\_

Scale: 100% 100%

Align: \_\_\_\_\_

Profile: \_\_\_\_\_

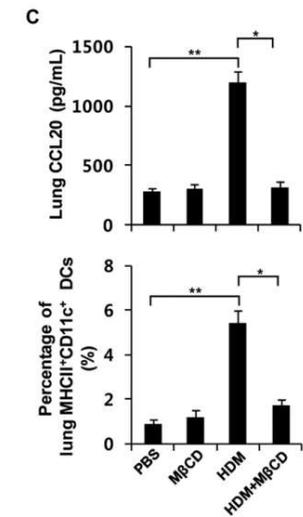
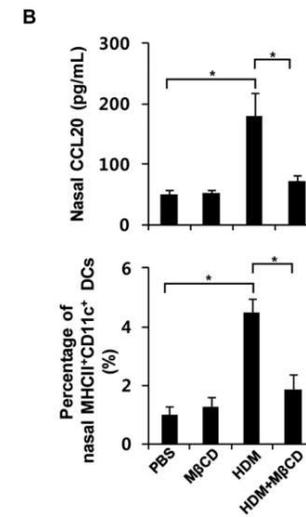
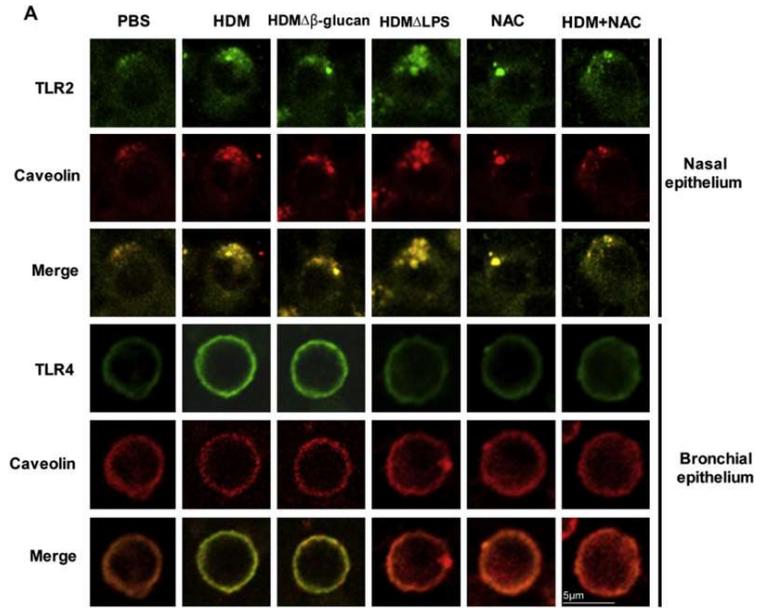
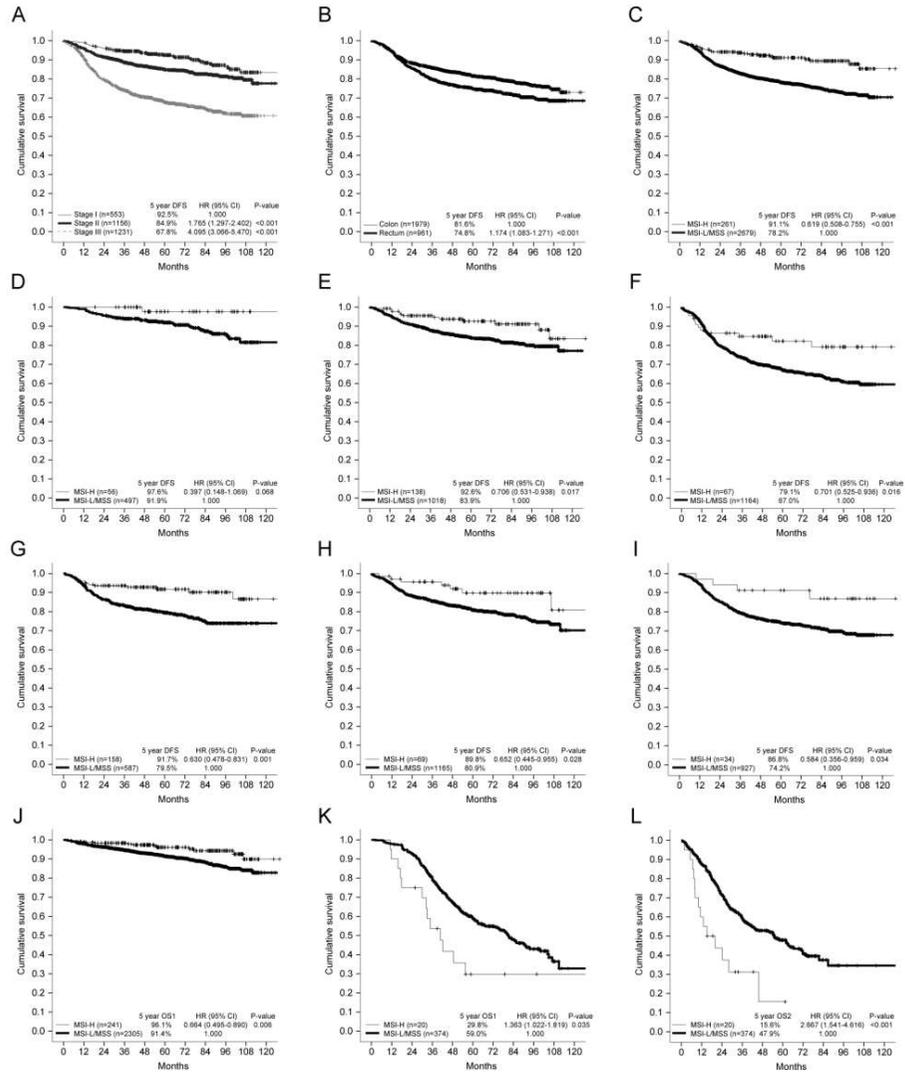
Appearance Graphic Styles

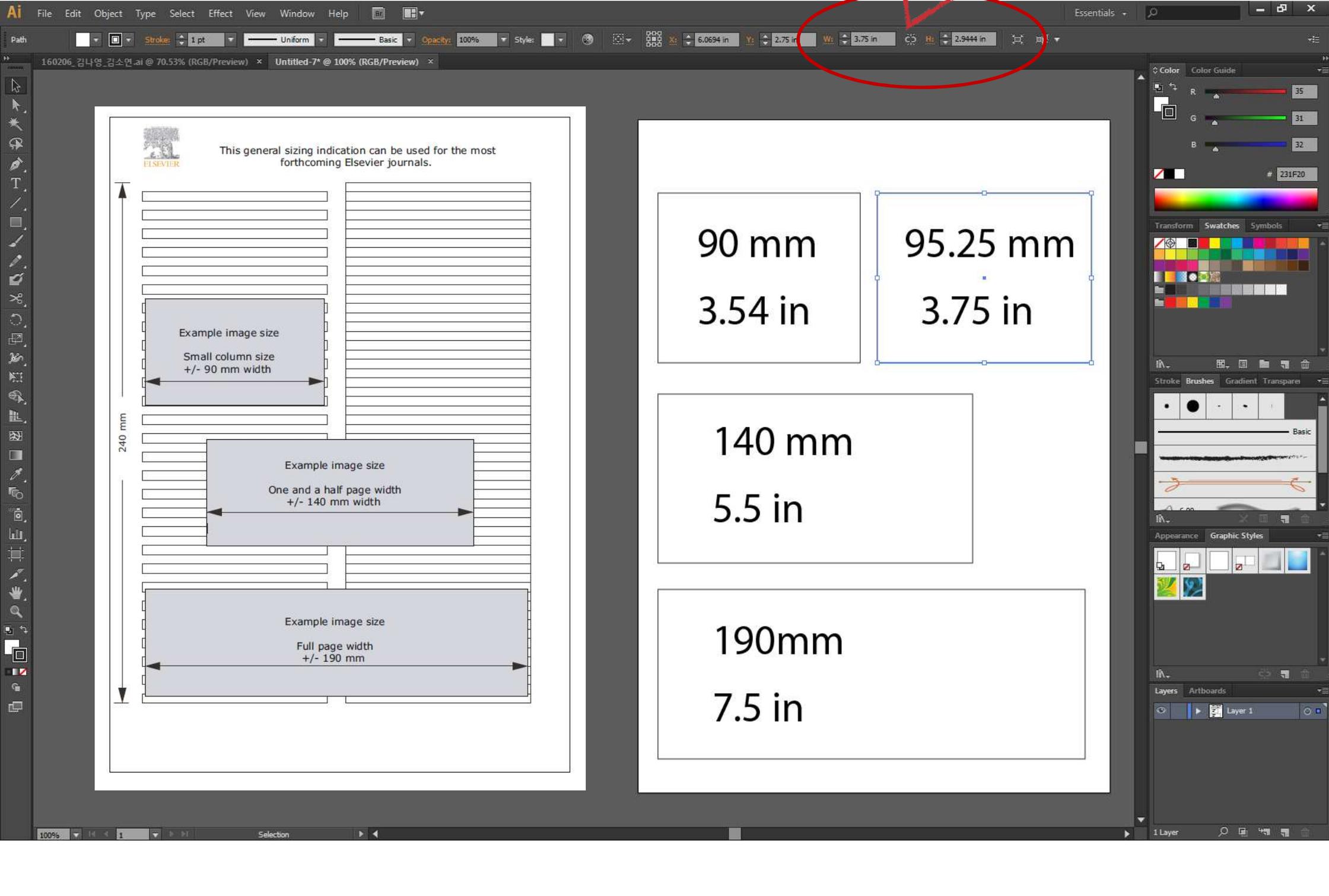
Layers Artboards

1 Artboard 1

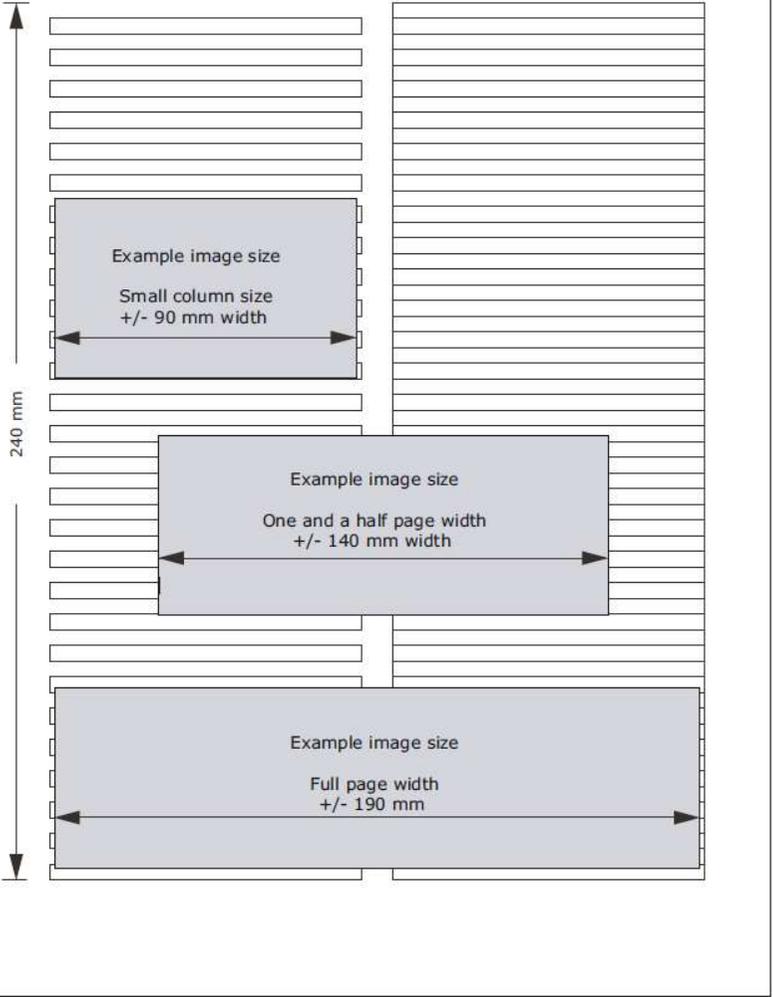
# A Type

# B Type





This general sizing indication can be used for the most forthcoming Elsevier journals.

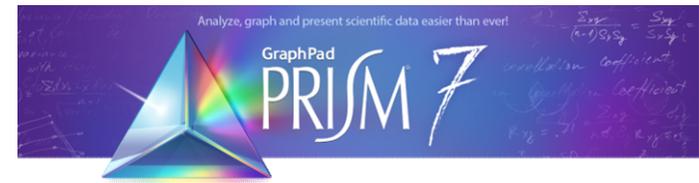
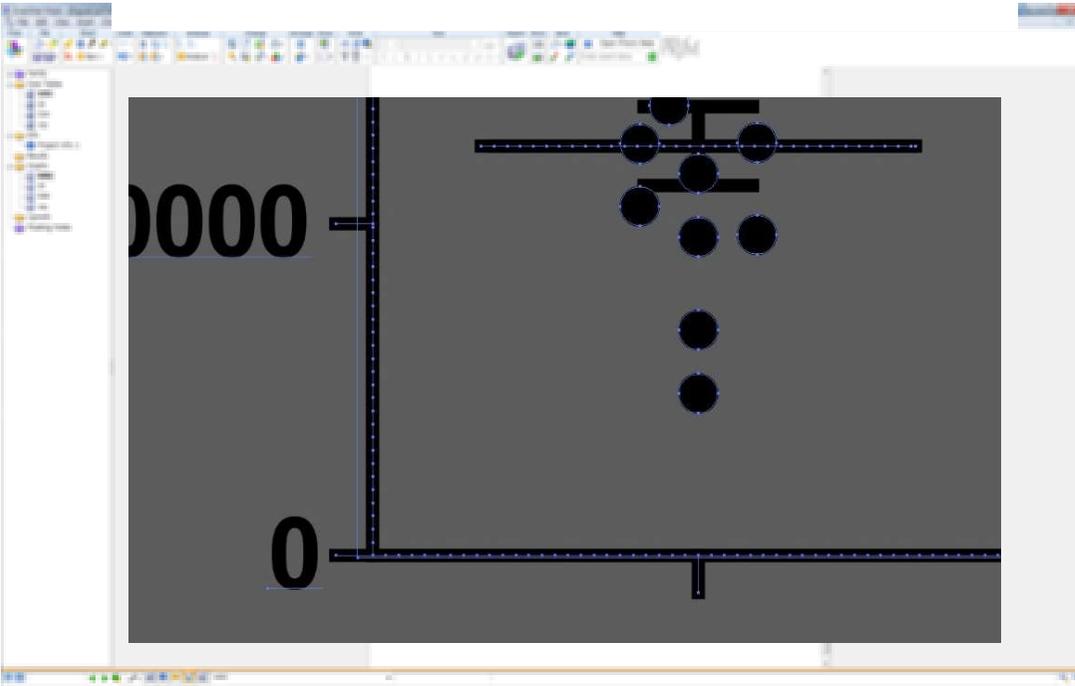
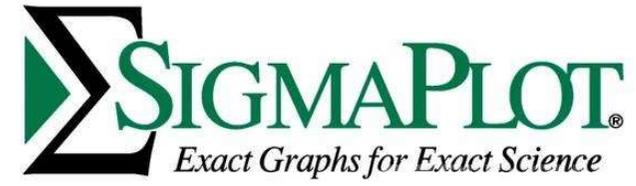
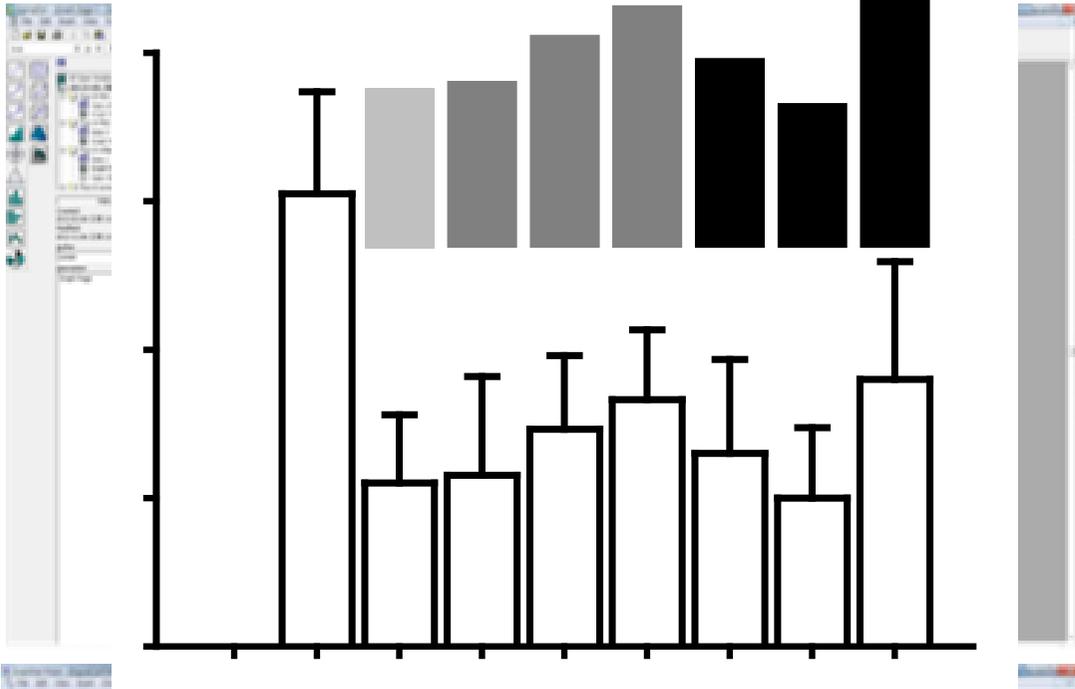


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95.25 mm  
3.75 in

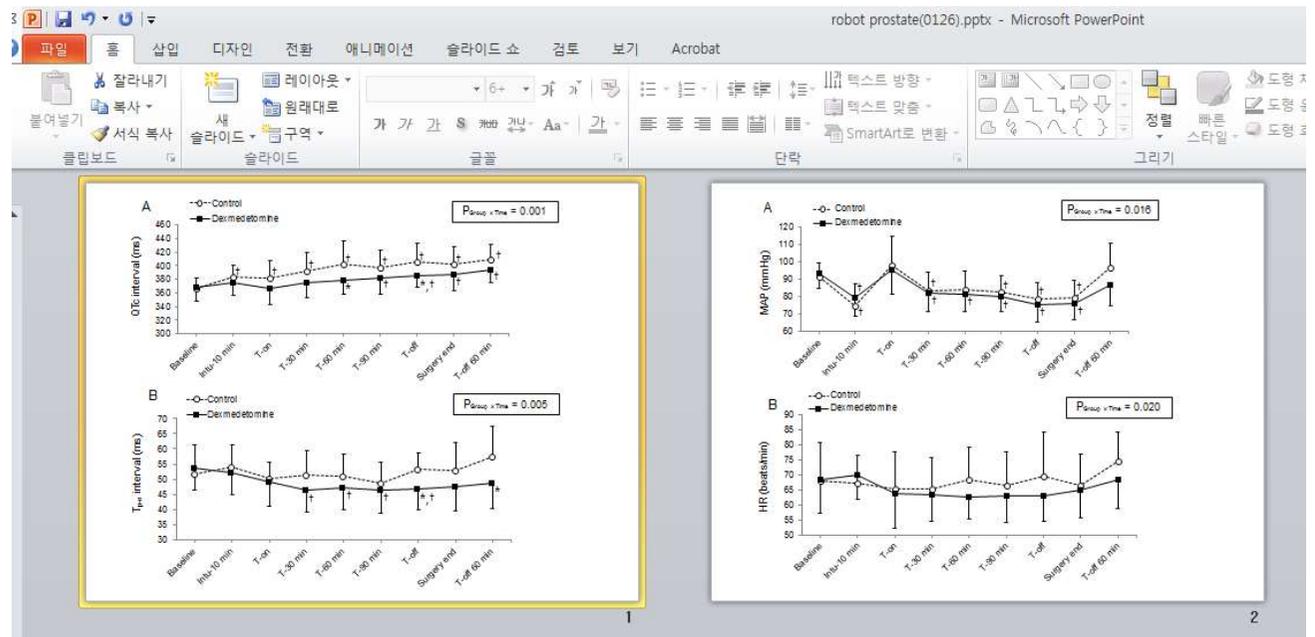
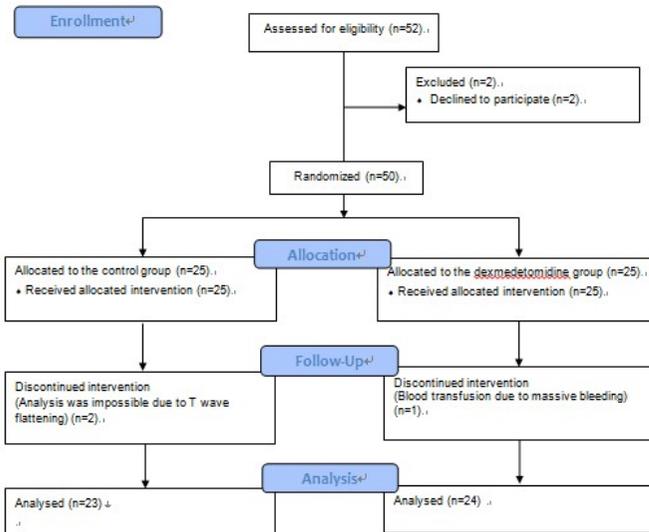
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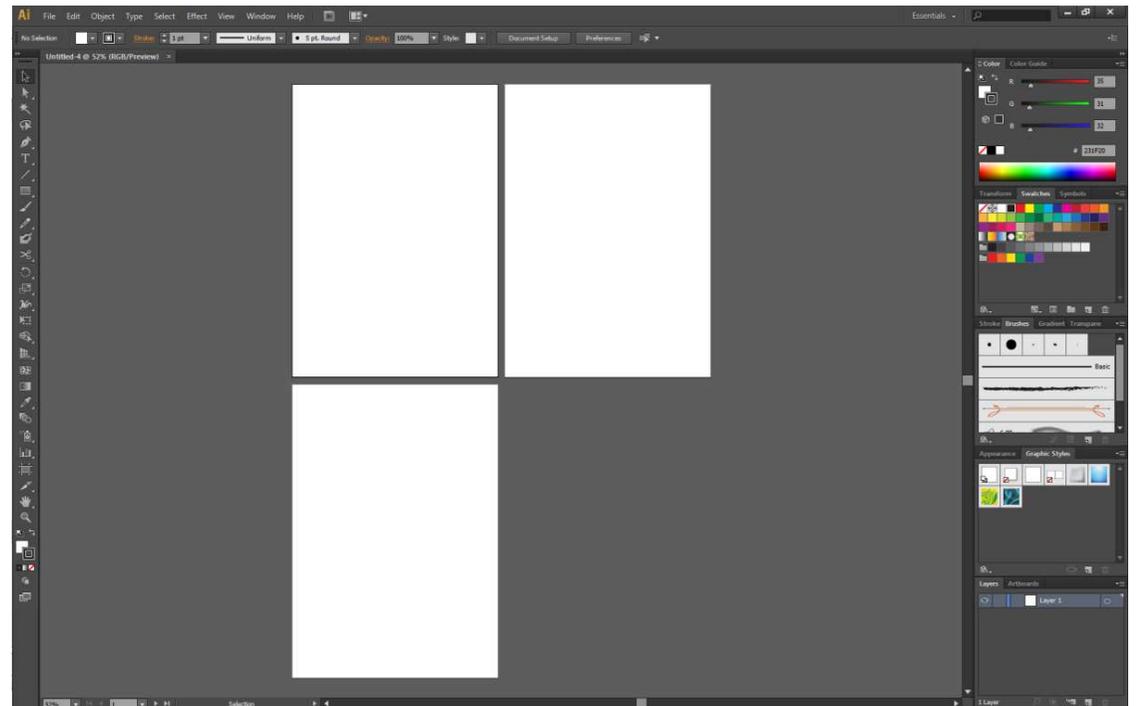
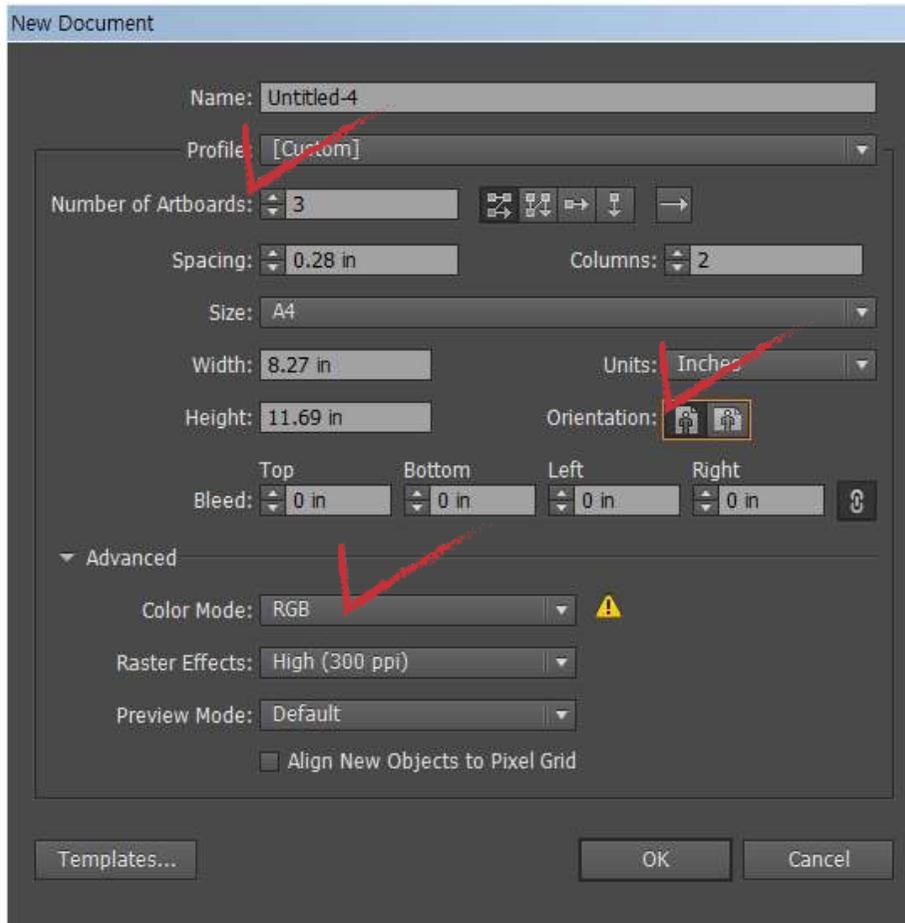
190mm  
7.5 in



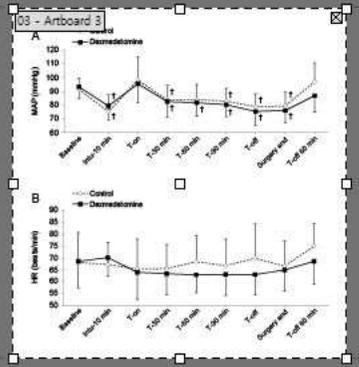
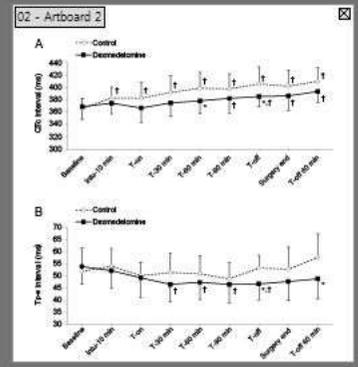
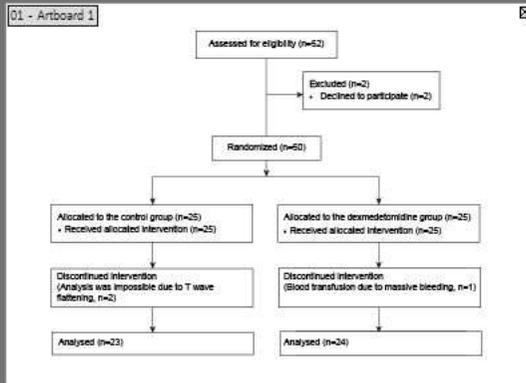


CONSORT 2010 Flow Diagram<sup>41</sup>





160206 김나영\_김소연.ai\* @ 66.67% (RGB/Preview)



Color Color Guide R G B

Swatches Brushes Symbols Basic

Stroke Gradient Transparency Weight: Cap: Corners: Align Strokes: Dashed Line dash gap dash gap dash gap Arrowheads: Scale: 100% 100% Align: Profile:

Appearance Graphic Styles

Layers Artboards 1 Artboard 1 2 Artboard 2 3 Artboard 3 3 Artboards

File Edit Object Type Select Effect View Window Help

- New... Ctrl+N
- New from Template... Shift+Ctrl+N
- Open... Ctrl+O
- Open Recent Files
- Browse in Bridge... Alt+Ctrl+O
- Close Ctrl+W
- Save Ctrl+S
- Save As... Shift+Ctrl+S
- Save a Copy... Alt+Ctrl+S
- Save as Template...
- Save for Web... Alt+Shift+Ctrl+S
- Save Selected Slices...
- Revert F12
- Place...
- Save for Microsoft Office...
- Export...**
- Scripts
- Document Setup... Alt+Ctrl+P
- Document Color Mode
- File Info... Alt+Shift+Ctrl+I
- Print... Ctrl+P
- Exit Ctrl+Q

AutoCAD Drawing (\*.DWG)  
AutoCAD Interchange File (\*.DXF)  
BMP (\*.BMP)  
Enhanced Metafile (\*.EMF)  
Flash (\*.SWF)  
JPEG (\*.JPG)  
Macintosh PICT (\*.PCT)  
Photoshop (\*.PSD)  
PNG (\*.PNG)  
Targa (\*.TGA)  
Text Format (\*.TXT)  
**TIFF (\*.TIFF)**  
Windows Metafile (\*.WMF)

파일 이름(N):  
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Resolution: High (300 ppi)

Anti-aliasing: Type Optimized (Hinted)

LZW Compression

Embed ICC Profile: sRGB IEC61966-2.1

OK Cancel

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Adobe Illustrator (\*.AI)  
Adobe PDF (\*.PDF)  
**Illustrator EPS (\*.EPS)**  
Illustrator Template (\*.AIT)  
SVG (\*.SVG)  
SVG Compressed (\*.SVGZ)  
Adobe Illustrator (\*.AI)

파일 이름(N):  
파일 형식(T):

Use Artboards All Range: 1

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Version: Illustrator CS6 EPS

Preview

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Transparency



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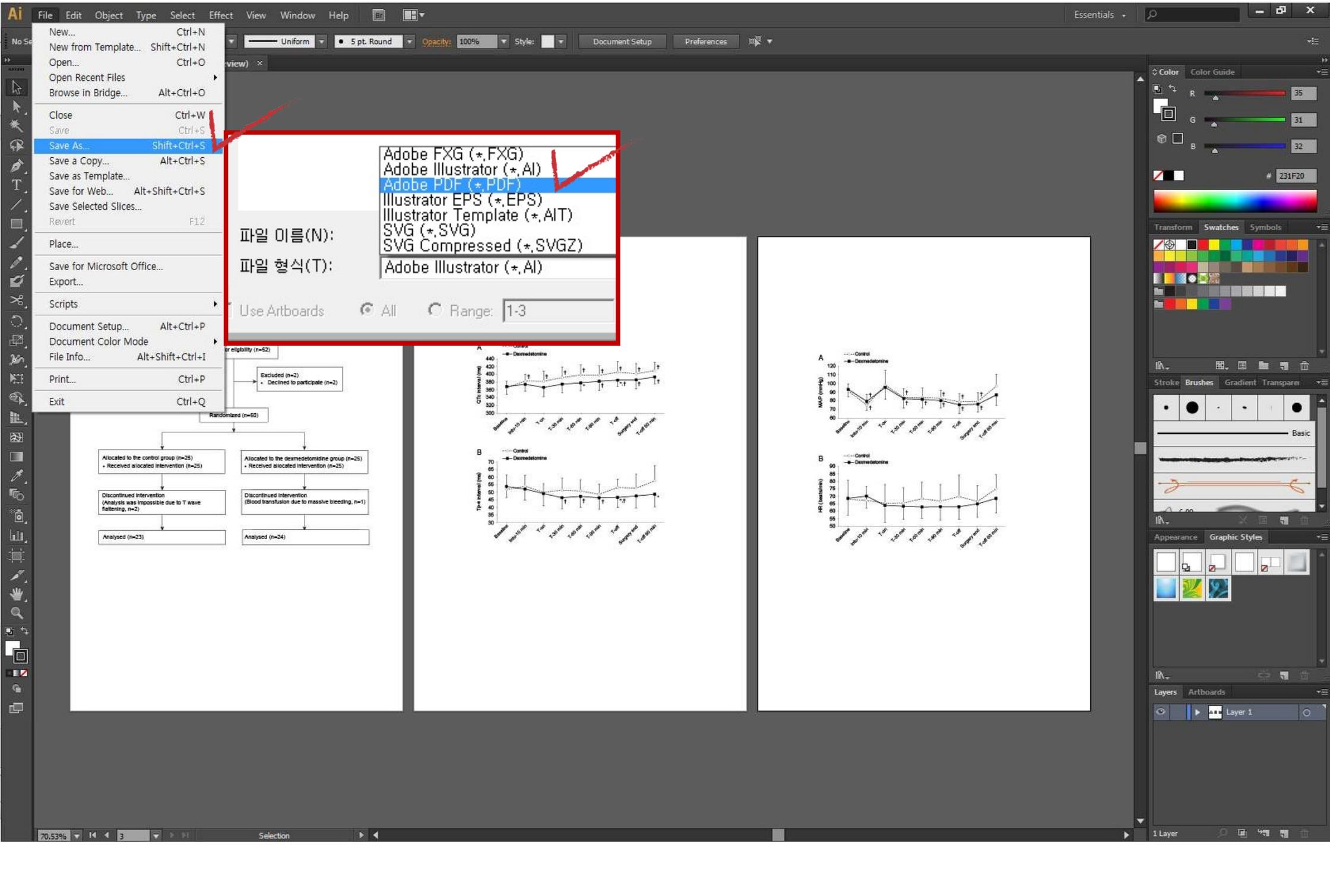


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Eps, wmf,  
emf, 기타 파일 보관

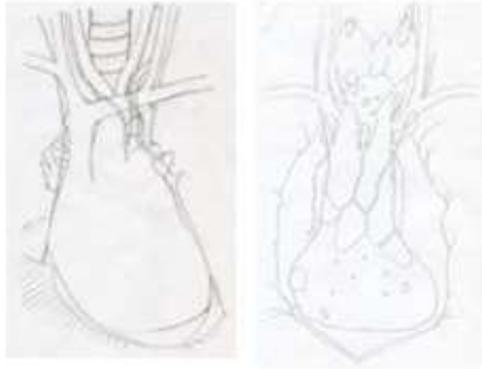


Tiff & eps

# 요약

- **Adobe 사이트에서 Ai 다운**
- **프리즘이나 시그마플릿 보다 엑셀에서 작업하는 게 효과적임.**
- **PPT(스토리보드)로 정리하고 최종작업은 Ai로 작업.**
- **포토샵단점: 레이어 컨트롤하기 힘들, 비트맵 문제**

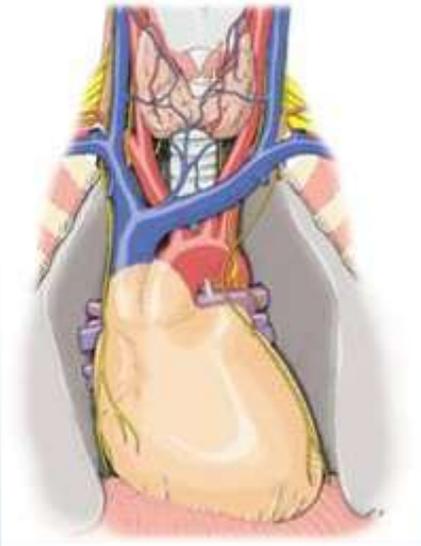
# 논문 일러스트레이션 의뢰방법



신청서 작성, 첨부파일 및 문의



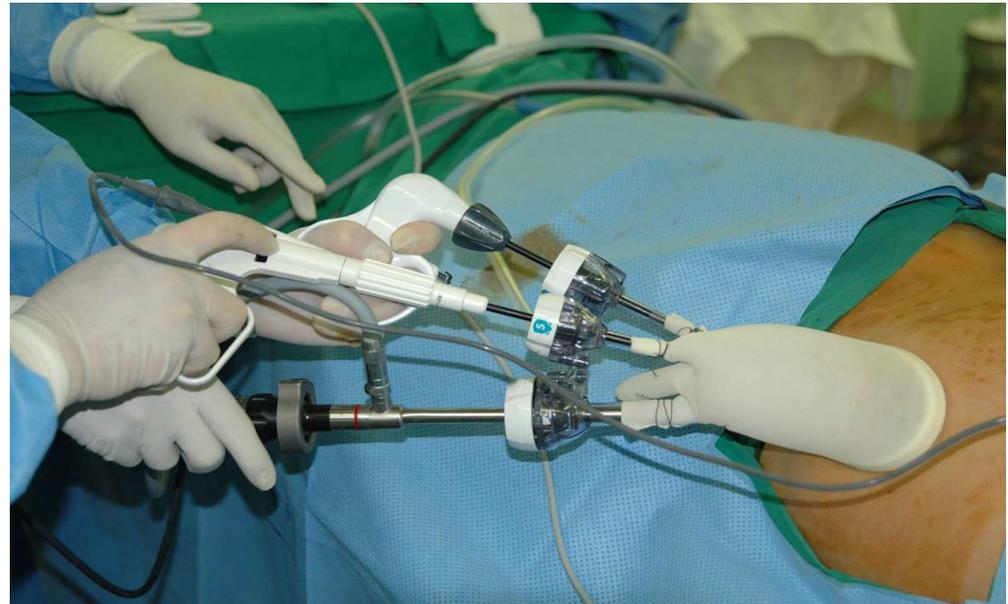
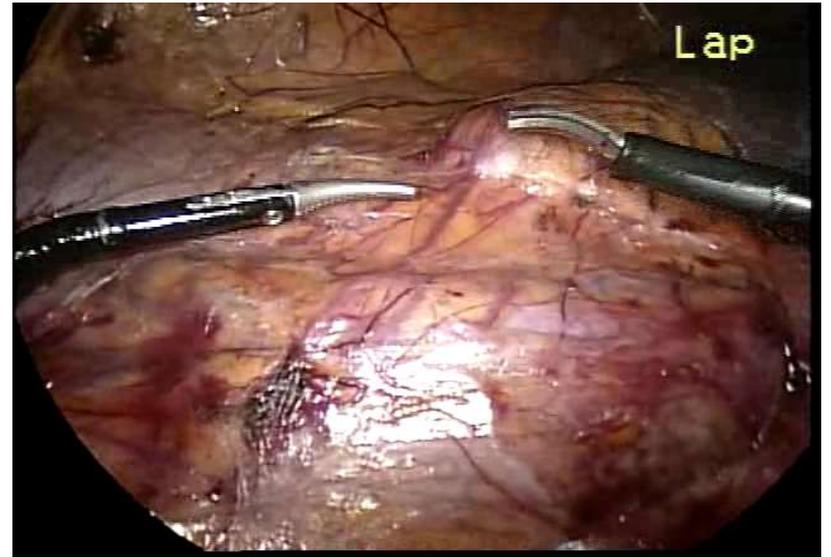
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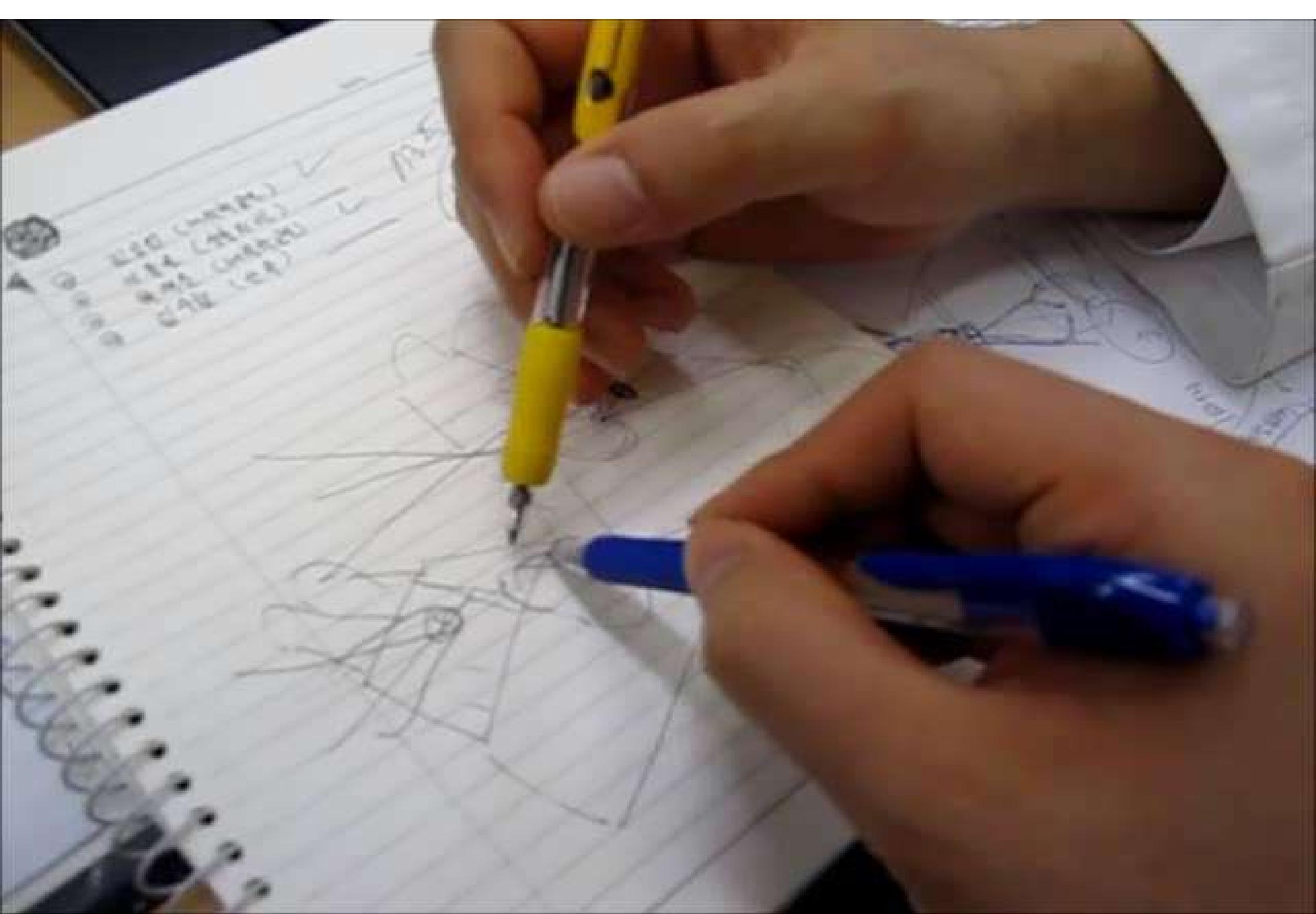


2차 Confirm, 완료



수정작업





Handwritten notes on a lined notebook page, including a small circular diagram and several lines of text. The text is partially obscured but appears to be a list or set of instructions.



## Urolithiasis/Endourology

## Initial Experience With 50 Laparoendoscopic Single Site Surgeries Using a Homemade, Single Port Device at a Single Center

Hwang Gyun Jeon, Wooju Jeong, Cheol Kyu Oh, Enrique Ian S. Lorenzo, Won Sik Ham, Koon Ho Rha and Woong Kyu Han\*

From the Departments of Urology, Urological Science Institute, Yonsei University College of Medicine, Seoul and ChA Bundang Medical Center, ChA University, Seongnam (JGJ), Korea

## Abbreviations and Acronyms

C-LESS = conventional LESS  
 LESS = laparoendoscopic single site surgery  
 R-LESS = robotic LESS

Submitted for publication September 25, 2009.

Study received Seoul Government Hospital or institutional review board approval.

\*Correspondence: Department of Urology, Yonsei University College of Medicine, 134 Shin-chon-dong, Seodaemun-gu, Seoul, 120-752, Korea (E-mail: hanwk@yu.ac.kr)

ARTICLE IN PRESS  
LAPAROENDOSCOPIC SURGERY

wound retractor.<sup>3</sup> Our homemade single port device allows various trocar sizes (5 to 12 mm), locations and placements (3 to 4 trocars), and provides a larger working space and wide range of motion with less clashing between trocars. We report our techniques of C-LESS and R-LESS using the homemade single port in our initial series of 50 urological procedures.

## MATERIALS AND METHODS

## Patients

Between December 2008 and August 2009, 50 patients underwent LESS. The surgical approach (C-LESS or R-LESS) was based on surgeon and patient preference. This study was approved by the institutional review board at Yonsei Severance Hospital, Korea. Various parameters were analyzed, including preoperative diagnosis, surgical indication, operative time, estimated blood loss, intraoperative and postoperative complications, and length of hospital stay.

## Surgical Technique

Figure 1 shows a schematic representation of the homemade single port and instruments for laparoendoscopic single site right nephrectomy. Under general anesthesia the patient was placed in the semilateral decubitus position. For transperitoneal LESS a 4 cm periumbilical skin incision (2 cm incision for cyst manipulation) and a 1 cm extended fascial incision were made. We used a small Alexis wound retractor and a surgical glove as the homemade single port device (fig. 2, A). To make a single port similar to a commercial multichannel trocar the inner ring of the wound retractor was inserted at the umbilicus. A homemade single port device was made by fixing and suturing a size 7½ surgical glove to the outer ring of the wound retractor so that it would not fall off and securing the glove fingers to the end of the 3

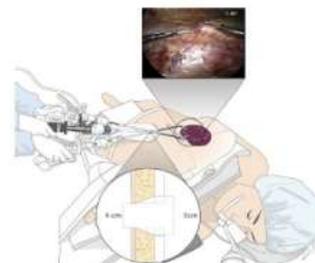
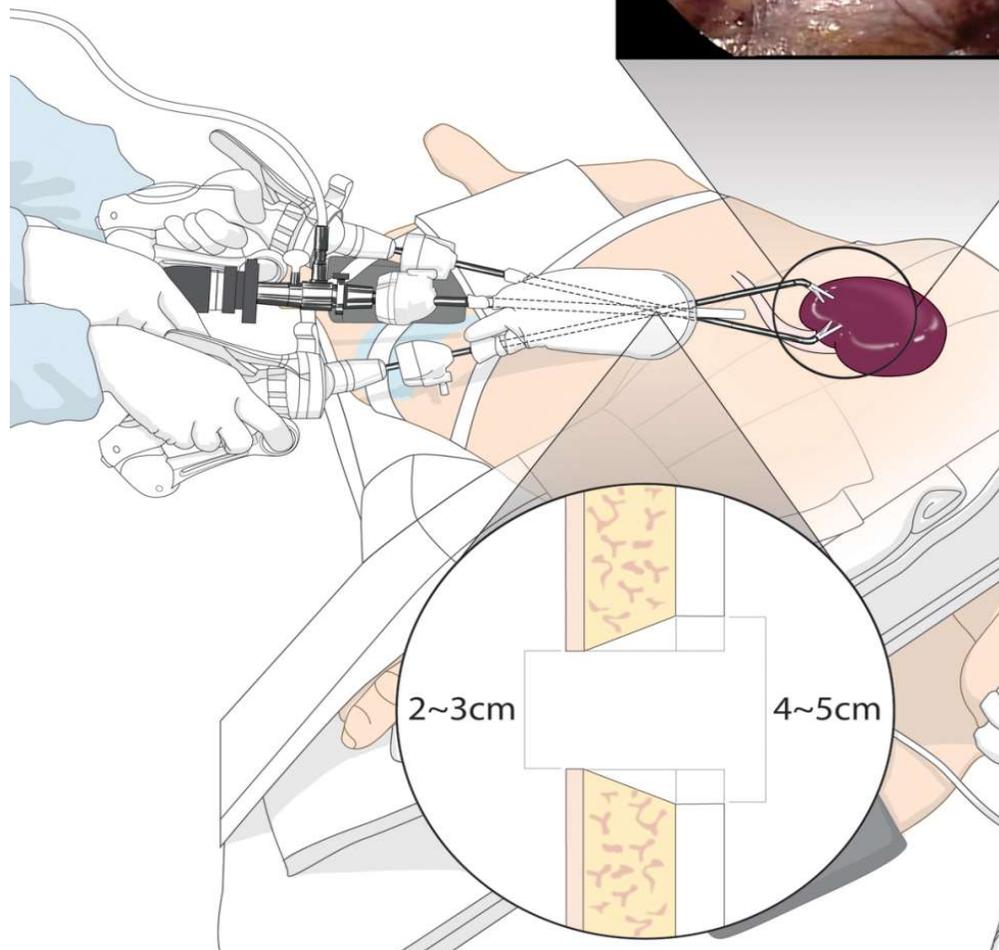
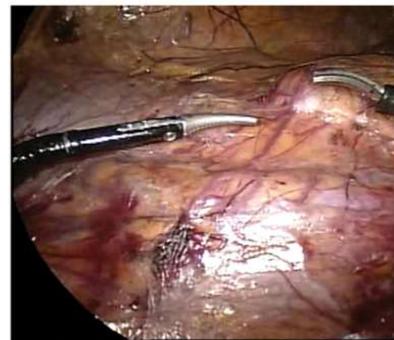


Figure 1. Homemade single port and instruments for laparoendoscopic single site right nephrectomy.

data. In 1 case the umbilical incision was extended to retrieve an 8 cm renal mass and final pathological results revealed Ewing's sarcoma. In 2 C-LESS partial nephrectomies hilar clamping, tumor dissection and

**Purpose:** We report our technique of and initial experience with 50 patients who underwent laparoendoscopic single site surgery using a homemade single port device at a single institution.

**Materials and Methods:** Between December 2008 and August 2009 we performed 50 laparoendoscopic single site surgeries using the Alexis® wound retractor, which was inserted at the umbilical incision. A homemade single port device was made by fixing a size 7½ surgical glove to the retractor outer ring and securing the glove fingers to the end of 3 or 4 trocars with a tie and a rubber band. A prospective study was performed in 50 patients to evaluate outcomes.

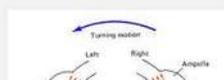
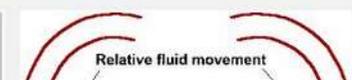
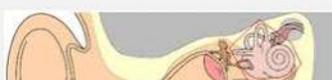
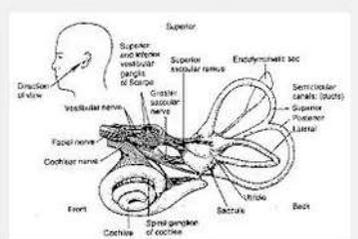
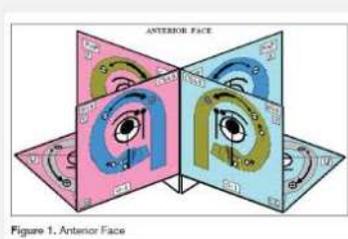
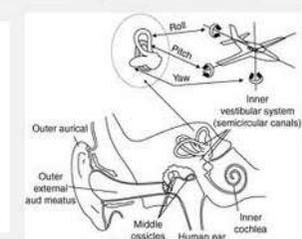
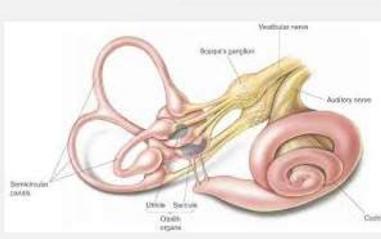
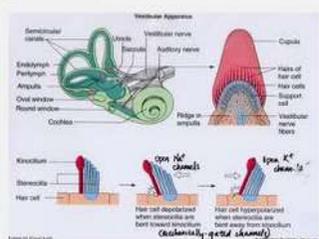
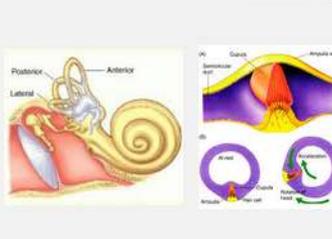
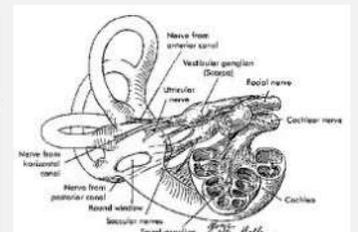
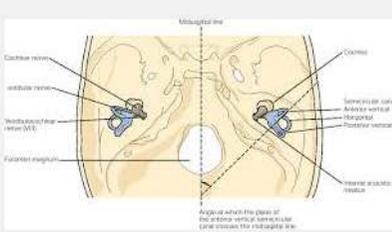
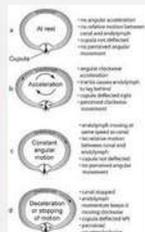
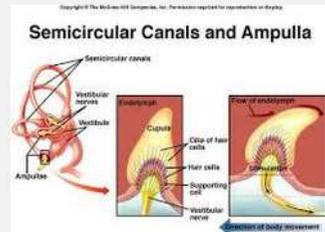
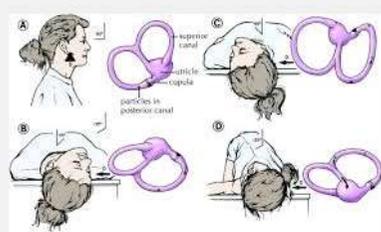
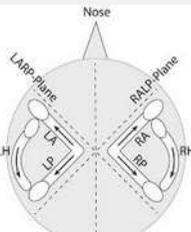
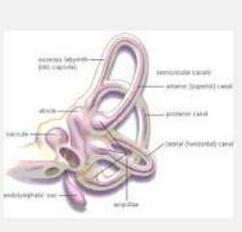
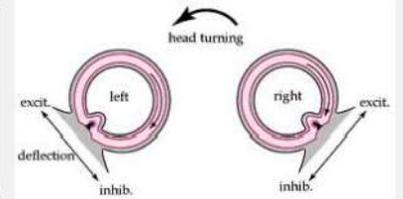
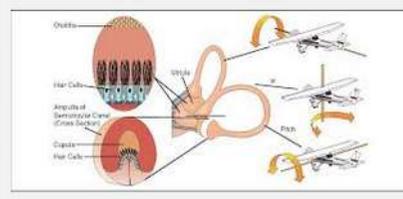
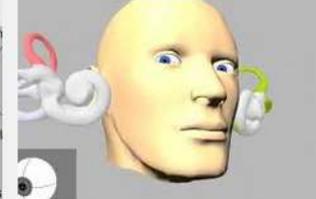
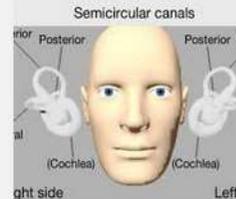
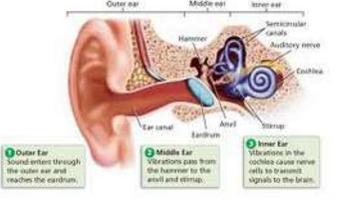
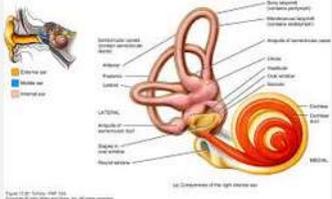
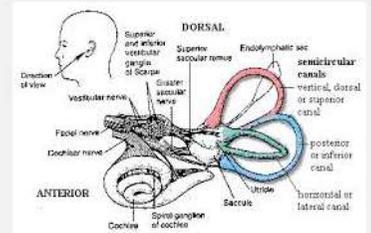
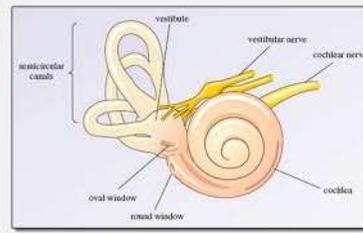
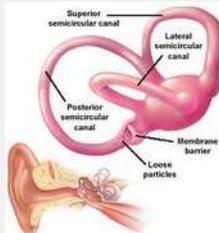
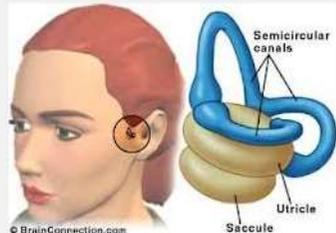
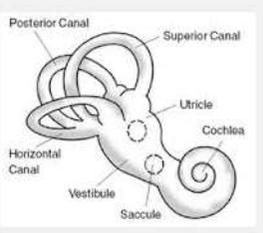
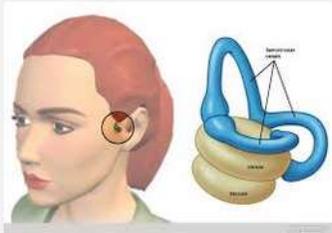
**Results:** Of 50 patients 34 underwent conventional laparoendoscopic single site surgery, including radical and simple nephrectomy, and cyst decortication in 8 each, nephroureterectomy in 3, partial nephrectomy and adrenalectomy in 2 each, and partial cystectomy, ureterectomy and ureterolithotomy in 1 each, while 16 underwent robotic laparoendoscopic single site surgery, including partial nephrectomy in 11, nephroureterectomy in 3, and simple and radical nephrectomy in 1 each. Mean patient age was 52 years, mean body mass index was 23.4 kg/m<sup>2</sup>, mean operative time was 201 minutes and mean estimated blood loss was 201 ml. Four intraoperative complications occurred, including 2 bowel serosal tears, diaphragm partial tearing and conversion to open radical nephrectomy. One case of postoperative bleeding was managed by transfusion. Surgical margins were negative in the 13 patients who underwent partial nephrectomy. Mean hospital stay was 4.5 days (range 1 to 16).

**Conclusions:** Our homemade single port device is cost-effective, provides adequate range of motion and is more flexible in port placement for laparoendoscopic single site surgery than the current multichannel port.

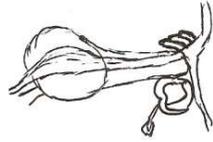
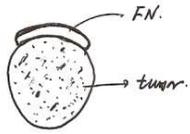
**Key Words:** laparoscopy; instrumentation; gloves, surgical; kidney; ureter

With advancements in surgical instruments, consideration of cosmetics and trends toward minimal invasiveness the number of LESS procedures has recently increased. LESS has been done for diverse urological diseases and studies of postoperative outcomes show less pain, a short hospital stay and excellent cosmesis.<sup>1-6</sup> Many groups have used a commercially available multichannel trocar, such as the Uni-Tr<sup>®</sup>

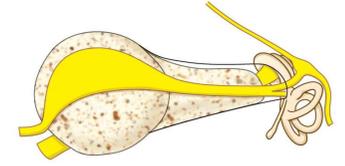
Single Port and the R-Port<sup>™</sup>, to perform LESS. However, these port systems have some limitations, in that the choice of trocar size, number and arrangement is limited to a rigid outer ring and a small range of motion. Also, these port systems have not been approved by the Korean Food and Drug Administration. Thus, we used a modified single port introduced by Ryu made with a surgical glove and a



① IAC portion of facial nerve가 tumor에 의해 눌리는 모습



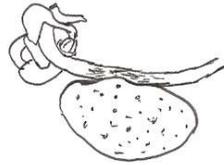
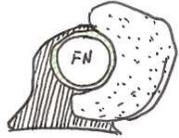
nerve가 눌려  
압박된 모습.



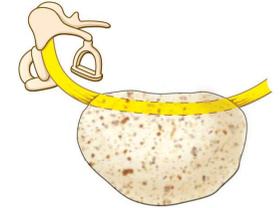
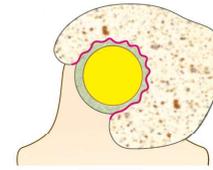
② mastoid portion of facial nerve가

cholesteatoma에 의해 ~~눌리는 모습~~  
Encasement

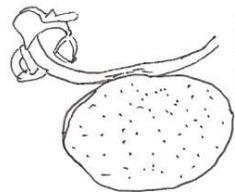
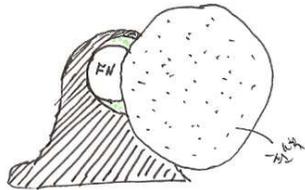
228 참조



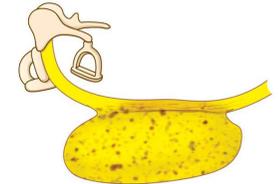
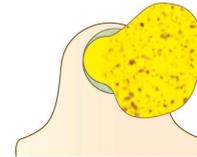
nerve가  
inflammatory  
change  
색의 변화  
patency가  
변화됨



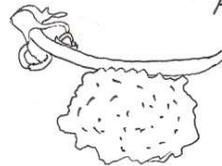
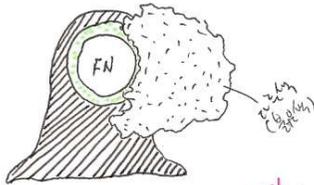
③ mastoid portion of facial nerve, encased.



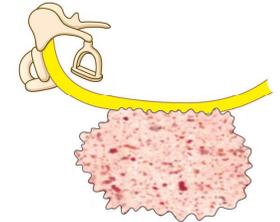
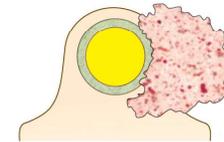
nerve가  
단순히 눌리는  
모습.  
약간 ische-  
mia를 감지



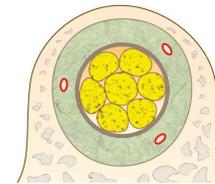
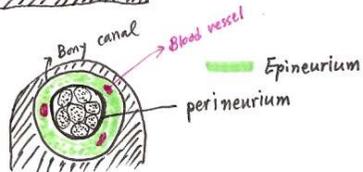
④ facial nerve가 malignant tumor에 의해 epineural invasion된 모습.

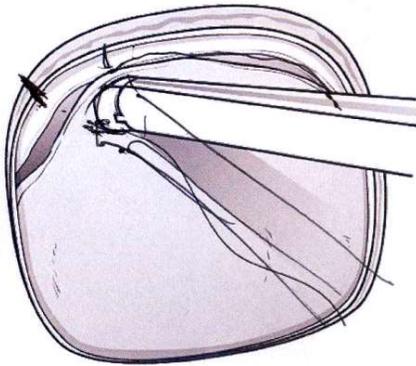
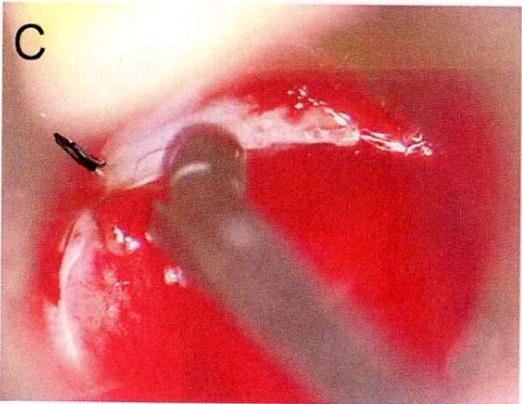
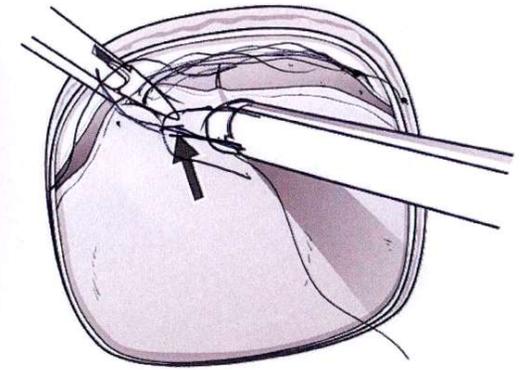
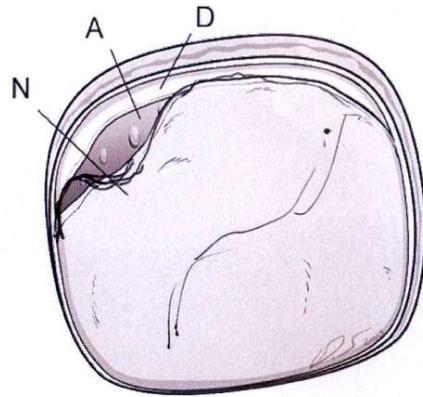


nerve가 invasi-  
on patency는 변화



\*





*Thank you*



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