

Visual Content System Demonstration

Testing all visual components with real surgical images

1. Image Gallery Test

3D Reconstructions Gallery

:::gallery columns=3 caption="Collection of 3D reconstructions showing various anatomical perspectives"

- reference-materials/visual-surgical-content/3d-reconstructions/BMC_Surgery_004_685x427.png | 3D reconstruction anterior view | Anterior perspective showing gastric anatomy
- reference-materials/visual-surgical-content/3d-reconstructions/BMC_Surgery_005_685x662.png | 3D reconstruction lateral view | Lateral perspective
- reference-materials/visual-surgical-content/3d-reconstructions/BMC_Surgery_006_685x629.png | 3D reconstruction posterior view | Posterior perspective
- reference-materials/visual-surgical-content/3d-reconstructions/BMC_Surgery_009_685x430.png | 3D reconstruction detail | Detailed anatomical view
- reference-materials/visual-surgical-content/3d-reconstructions/BMC_Surgery_010_685x402.png | 3D reconstruction vascular | Vascular anatomy highlighted
- reference-materials/visual-surgical-content/3d-reconstructions/BMC_Surgery_011_685x403.png | 3D reconstruction lymphatic | Lymphatic system visualization

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2. Multi-Panel Figure Test

:::figure-panel layout=2x2 number="1" caption="Multi-modal imaging and surgical views. (A) 3D reconstruction, (B) Intraoperative view, (C) Surgical anatomy, (D) Procedural step."

- A: reference-materials/visual-surgical-content/3d-reconstructions/Springer_DTR_Figure_1200x650.png | 3D reconstruction | High-resolution anatomical reconstruction
- B: reference-materials/visual-surgical-content/surgical-photos/Korean_Journal_Radiology_017_792x449.jpeg | Surgical field | Intraoperative laparoscopic view
- C: reference-materials/visual-surgical-content/anatomical-diagrams/Frontiers_Oncology_009_1949x1185.jpeg | Anatomical diagram | Detailed lymph node station map
- D: reference-materials/visual-surgical-content/procedure-steps/Korean_Journal_Radiology_010_714x680.jpeg | Procedure step | Key surgical technique demonstration

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3. Surgical Photos Panel Test

:::surgical-photos title="Intraoperative Findings - Laparoscopic Gastrectomy" number="2" columns=2

- reference-materials/visual-surgical-content/surgical-photos/Korean_Journal_Radiology_017_792x449.jpeg | Overall surgical field | Laparoscopic view of gastric anatomy
- reference-materials/visual-surgical-content/surgical-photos/Korean_Journal_Radiology_016_793x374.jpeg | Vascular identification | Critical vessel identification
- reference-materials/visual-surgical-content/surgical-photos/Korean_Journal_Radiology_014_793x376.jpeg | Lymph node dissection | D2 lymphadenectomy in pro-

gress

- reference-materials/visual-surgical-content/surgical-photos/

Korean_Journal_Radiology_018_792x308.jpeg | Specimen view | Resected specimen examination

:::

4. Step-by-Step Procedure Test

:::procedure-steps title="Key Steps in Laparoscopic Technique" number="3" layout="vertical"

- reference-materials/visual-surgical-content/procedure-steps/

Korean_Journal_Radiology_010_714x680.jpeg | Initial setup | Port placement and patient positioning

- reference-materials/visual-surgical-content/procedure-steps/

Korean_Journal_Radiology_011_691x502.jpeg | Mobilization phase | Greater curvature mobilization and omental dissection

- reference-materials/visual-surgical-content/procedure-steps/

Korean_Journal_Radiology_015_792x375.jpeg | Dissection phase | Systematic lymph node dissection

- reference-materials/visual-surgical-content/procedure-steps/

Int_J_Surgery_Case_Reports_009_675x734.jpeg | Reconstruction | Gastrojejunostomy anastomosis creation

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5. Comparison Slider Test

:::comparison number="4" caption="Comparison of different 3D reconstruction techniques showing anatomical variations"

before: reference-materials/visual-surgical-content/3d-reconstructions/BMC_Surgery_004_685x427.png | First reconstruction technique

after: reference-materials/visual-surgical-content/3d-reconstructions/BMC_Surgery_005_685x662.png | Alternative reconstruction view

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6. Annotated Image Test

:::annotated-image number="5" caption="Anatomical diagram with key structures labeled and highlighted"

image: reference-materials/visual-surgical-content/anatomical-diagrams/Frontiers_Oncology_010_1940x953.jpeg | Anatomical illustration of gastric vasculature

annotations:

- arrow: 30, 40 | Celiac trunk | red

- arrow: 50, 35 | Left gastric artery | red

- circle: 60, 50 | Lymph node station 7 | yellow

- circle: 40, 60 | Lymph node station 8a | yellow

- label: 70, 30 | Splenic artery | white

- rectangle: 45, 70 | Safe dissection plane | green

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7. Horizontal Procedure Steps Test

:::procedure-steps title="Sequential Surgical Phases" number="6" layout="horizontal"

- reference-materials/visual-surgical-content/surgical-photos/

Korean_Journal_Radiology_021_791x307.jpeg | Phase 1 | Initial exploration

- reference-materials/visual-surgical-content/surgical-photos/
Korean_Journal_Radiology_023_793x369.jpeg | Phase 2 | Active dissection
- reference-materials/visual-surgical-content/3d-reconstructions/
Korean_Journal_Radiology_019_795x306.jpeg | Phase 3 | Reconstruction planning
- ...:

8. Large Anatomical Diagram Gallery

:::gallery columns=2 caption="Detailed anatomical diagrams for surgical planning"

- reference-materials/visual-surgical-content/anatomical-diagrams/Frontiers_Oncology_009_1949x1185.jpeg | Comprehensive lymph node map | D1 and D2 lymphadenectomy stations
- reference-materials/visual-surgical-content/anatomical-diagrams/Frontiers_Oncology_010_1940x953.jpeg | Vascular anatomy diagram | Celiac axis and major branches
- reference-materials/visual-surgical-content/anatomical-diagrams/Frontiers_Oncology_012_1460x1781.jpeg | Regional anatomy | Detailed regional surgical anatomy
- reference-materials/visual-surgical-content/anatomical-diagrams/Frontiers_Oncology_013_1949x1348.jpeg | Surgical approach planning | Optimal surgical approach visualization
- ...:

9. Three-Column Gallery Test

:::gallery columns=3 caption="Comprehensive collection of surgical photographs"

- reference-materials/visual-surgical-content/surgical-photos/
Korean_Journal_Radiology_014_793x376.jpeg | Surgical view 1
- reference-materials/visual-surgical-content/surgical-photos/
Korean_Journal_Radiology_016_793x374.jpeg | Surgical view 2
- reference-materials/visual-surgical-content/surgical-photos/
Korean_Journal_Radiology_017_792x449.jpeg | Surgical view 3
- reference-materials/visual-surgical-content/surgical-photos/
Korean_Journal_Radiology_018_792x308.jpeg | Surgical view 4
- reference-materials/visual-surgical-content/surgical-photos/
Korean_Journal_Radiology_021_791x307.jpeg | Surgical view 5
- reference-materials/visual-surgical-content/surgical-photos/
Korean_Journal_Radiology_023_793x369.jpeg | Surgical view 6
- ...:

10. Grid Layout Procedure Test

:::procedure-steps title="Comprehensive Surgical Protocol" number="7" layout="grid"

- reference-materials/visual-surgical-content/3d-reconstructions/BMC_Surgery_004_685x427.png | Step 1 | Preoperative planning with 3D model
- reference-materials/visual-surgical-content/procedure-steps/
Korean_Journal_Radiology_010_714x680.jpeg | Step 2 | Patient setup and port placement
- reference-materials/visual-surgical-content/surgical-photos/
Korean_Journal_Radiology_017_792x449.jpeg | Step 3 | Initial exploration
- reference-materials/visual-surgical-content/procedure-steps/
Korean_Journal_Radiology_011_691x502.jpeg | Step 4 | Mobilization phase
- reference-materials/visual-surgical-content/surgical-photos/

Korean_Journal_Radiology_016_793x374.jpeg | Step 5 | Critical dissection

- reference-materials/visual-surgical-content/procedure-steps/

Int_J_Surgery_Case_Reports_009_675x734.jpeg | Step 6 | Final reconstruction

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Conclusion

This test manuscript demonstrates all visual component types:

- Image galleries (3-column, 2-column)
- Multi-panel figures (2×2 grid)
- Surgical photo panels
- Step-by-step procedures (vertical, horizontal, grid)
- Comparison sliders
- Annotated images

All components use real surgical images from the reference materials collection.