Update On New Assets In Hybrid Suites And How They Help Get Better Results

Stéphan Haulon,
J Sobocinski, A Hertault, R Clough,
T Martin Gonzalez, R Spear, R Azzaoui

Aortic Centre, Vascular Surgery
Lille University Hospital, France

Disclosures

- Research support, Consulting
  - Cook Medical, GE Healthcare

Integrated EVAR workflow
3 levels of simplification

Pre-op
1-6 weeks before Procedure
Planning
Fusion
Assessment

In the OR
Sizing
Key anatomical measurements for endograft sizing
C-arm angulations and vessel ostia contours for Fusion
0-click bone removal and tracking of the abdominal vessels

Post-op
After
Planning software

Sizing and fusion preparation integrated into a planning software

Before
Pre-op
In the OR
Redes Fragmented planning

After
Using a C-arm overlay
Planning overlay

Redefine

Assessment
Planning
Fusion
Planning exportable to the C-arm

- Planned on CT Angio
- 3D overlay
- Planned landing zones
- Ostium outline
- Optimized C-arm angulations

Recall of C-arm angulations from table-side

Easy Bi-view registration

- 2 Fluoro shots – Table side alignment of bony structures from pre-op CT to intra-op fluoro

Accurate fusion with Dynamic Registration

- Table side fine-tuning following stiff wire insertion

Quickly reposition without fluoroscopy

- Reposition table and gantry without fluoroscopy and automatic gantry repositioning using stored angles from pre-op CT

Dynamic registration

- Right IBD
Dose and contrast saving

Intra-renal EVAR

Dose (Gy.cm²) Contrast (ml)

- Dose reduction by 40 to 59% and contrast load by 24 to 26%

Non-injected CT Fusion

Total contrast throughout patients hospital stay was below 25 ml

Completion 3D angio + CE U/S

- Repeated injections
- No direct 3D assessment

Ease in 3D Angiography and good IQ
Significant reduction in overall dose and contrast

Contrast and dose to patients during their hospital stay

<table>
<thead>
<tr>
<th>Contrast volume (ml)</th>
<th>Dose (mSv)</th>
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<td>-68%</td>
<td>-50%</td>
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Conclusion

- Ease of use and accuracy of sizing and fusion
- Integrated workflow of EVAR Assist optimizes the use of pre-op data
- Leveraging 3D capabilities from sizing to fusion to assessment with Cone beam CT help to reduce dose and contrast throughout patients’ hospital stay