EVERYTHING ABOUT MECHANICAL VALVES HAS CHANGED
Why use another mechanical valve when...

No other mechanical valve has:

1. 90° leaflets: promotes laminar flow
2. Pure pyrolytic carbon: reduces thrombogenicity
3. Flared inlet: prevents pannus; organises flow

Step Ahead with On-X Aortic Valve: INR 1.5-2.0*

- 50% closer to a normal INR
- >60% reduction in bleeding
- No increase in thromboembolism (TE)

*Reduce INR after 3 months standard therapy
On-X Aortic Valve: 50% Closer to a Normal INR

On-X Aortic Heart Valve patients with an INR of 1.5–2.0 had a >60% reduction in bleeding events and no increase in TE compared to patients with an INR of 2.0–3.0. * All other bileaflet aortic valve anticoagulation should be managed at an INR of 2.0–3.0. 

INR vs. Event Rate

Optimal Haemodynamics

The On-X Aortic Heart Valve provides optimal mean gradients compared with other bileaflet and bioprosthetic aortic heart valves at ≥1 year. 

Mean Gradients at ≥1 Year

**Medtronic Open Pivot AP and AP360 (formerly ATS): 16 = 19, 18 = 21, 20 = 23, 22 = 25, 24 = 27, 26 = 29

*Postoperative data. Note: Mean gradients for On-X Aortic Valve 27 and 29 were combined.**
<table>
<thead>
<tr>
<th>On-X Aortic Heart Valve</th>
<th>All Other Bileaflet Aortic Heart Valves</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>90° Opening</strong></td>
<td><strong>&lt;90° Opening</strong></td>
</tr>
<tr>
<td>On-X Aortic Heart Valves have leaflets that can open 90° to promote better laminar flow.</td>
<td>All other bileaflet aortic heart valves have leaflets that can only open 78° to 85°. (^9,12)</td>
</tr>
</tbody>
</table>

![Diagram showing 90° opening](image)

<table>
<thead>
<tr>
<th>Smoother Surface</th>
<th>Rougher Surface</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-X Aortic Heart Valves have a smoother surface(^13) on the entire body and leaflets to reduce thrombogenicity.(^2)</td>
<td>All other bileaflet aortic heart valves have rougher surfaces(^13) that are more thrombogenic.(^2)</td>
</tr>
</tbody>
</table>

![Smoother surface images](image)

<table>
<thead>
<tr>
<th>Complete Annulus Support</th>
<th>Incomplete Annulus Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-X Aortic Heart Valves have a flared inlet designed to prevent pannus and conceal pledgets.</td>
<td>All other bileaflet aortic heart valves have unprotected inlets, allow pannus, and exposes pledgets.</td>
</tr>
</tbody>
</table>

![Diagram showing annulus support](image)
The only aortic mechanical valve FDA and CE approved and clinically proven to be safer with less anticoagulation.*

50% closer to a normal INR.³

*Reduce INR after 3 months standard therapy³
On-X Aortic Valve Patients

Patients who desire:
- An active lifestyle
- The lowest warfarin therapy of all mechanical aortic valves
- Durability: not being afraid of having a future aortic valve reoperation

Patients who are:
- ≤70 years (2014 AHA/ACC Guidelines)\(^4\)
- Anticipated to be on long-term warfarin therapy (e.g. chronic Afib or DVT)\(^5,15,16\)

\(^*\\)Reduce INR after 3 months standard therapy\(^7\)

“[…] The balance between valve durability versus risk of bleeding and thromboembolic events favors the choice of a mechanical valve in patients <60 years of age.”

(2014 AHA/ACC Guidelines)\(^4\)

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Fred Hoiberg, Age 43
Head Coach: Chicago Bulls
On-X Aortic Valve Recipient

“I couldn’t be happier with everything involved. First of all, getting the mechanical valve and second getting the On-X valve. The way I feel now, after the valve replacement, I feel like I did when I was playing. I feel great, and I’m thankful I got the valve that I did.”

Mike, Age 54
Competitive Cyclist
On-X Aortic Valve Recipient

“The On-X aortic valve would allow me to take lower blood thinner levels […] and continuing my cycling activities for many years to come.”

Note: Outcomes may vary per patient.

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On-X Aortic Valve Configurations

<table>
<thead>
<tr>
<th>Anatomic</th>
<th>Conform-X</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sizes (mm)</td>
<td>19, 21, 23, 25, 27/29</td>
<td></td>
</tr>
</tbody>
</table>

1. On-X Prosthetic Heart Valve Instructions for Use.
7. CarboMedics Prosthetic Heart Valve Instructions for Use.
8. Medtronic Open Pivot Heart Valve Instructions for Use.

Learn more at: www.onxlti.com

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Note: Outcomes may vary per patient.