

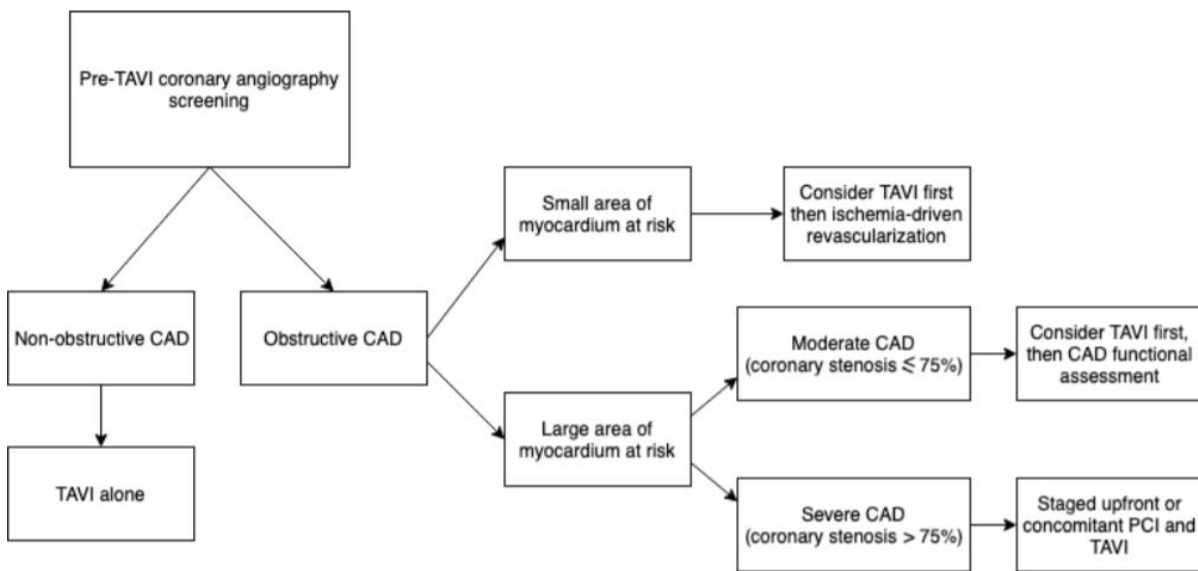
P9. TAVI–Transcatheter Aortic Valve Implantation

Given a flow chart below (simplified from:

<https://www.radcliffecardiology.com/image-gallery/figure-1-flow-chart-suggested-strategies-coronary-artery-disease-management>), write a program to suggest the Transcatheter Aortic

Valve Implantation (TAVI) management strategy for Coronary Artery Disease (CAD).

Use the P9 template (P9_Template.py; note: template is to ensure the exact display format and allows smooth auto-grading)



Example 1:

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Is CAD obstructive (yes/no)? **no**

Non-obstructive CAD.

TAVI alone.

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Example 2:

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Is CAD obstructive (yes/no)? **yes**

Obstructive CAD.

Is area of myocardium at risk large (yes/no)? **no**

Small area of myocardium at risk.

Consider TAVI first, then ischemia-driven revascularization.

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Example 3:

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Is CAD obstructive (yes/no)? **yes**

Obstructive CAD.

Is area of myocardium at risk large (yes/no)? **yes**

Large area of myocardium at risk.

How is coronary stenosis (%)? **60**

Moderate CAD.

Consider TAVI first, then CAD functional assessment.

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Example 4:

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Is CAD obstructive (yes/no)? **yes**

Obstructive CAD.

Is area of myocardium at risk large (yes/no)? **yes**

Large area of myocardium at risk.

How is coronary stenosis (%)? **80**

Severe CAD.

Staged upfront or concomitant PCI and TAVI.

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Here is P9_Template.py

```
"""
Given a flow chart below
(simplified from: https://www.radcliffecardiology.com/image-gallery/figure-1-flow-chart-suggested-strategies-coronary-artery-disease-management),
write a program to suggest the Transcatheter Aortic Valve Implantation (TAVI) management strategy
for Coronary Artery Disease (CAD).
"""

obstructive = input('Is CAD obstructive (yes/no)? ')

print('Non-obstructive CAD.')
print('TAVI alone.')
print('Obstructive CAD.')

risk_area = input('Is area of myocardium at risk large (yes/no)? ')

print('Small area of myocardium at risk.')
print('Consider TAVI first, then ischemia-driven revascularization.')

print('Large area of myocardium at risk.')

CS = float(input('How is coronary stenosis (%)? '))

print('Severe CAD.')
print('Staged upfront or concomitant PCI and TAVI.')

print('Moderate CAD.')
print('Consider TAVI first, then CAD functional assessment.')
```