

# MyCardioAdvocate™ Metabolic Syndrome

## Metabolic Syndrome

*When "borderline" abnormalities combine to create outsized cardiovascular risk.*

*Updated March 2026*

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### Why This Matters

Metabolic syndrome is not a disease you feel coming on. It's a clustering of borderline abnormalities—each individually dismissed—that together create outsized cardiovascular risk. Your blood pressure is "high-normal," your fasting glucose is "borderline," your triglycerides are elevated, your HDL is low, and your waist circumference tells a story that standard labs miss: insulin resistance at the root. Yet because metabolic syndrome is not a single diagnosis code, it often goes unrecognized as a unifying treatment target. The result: missed interventions and a cascade of preventable events.

### Why Metabolic Syndrome Flies Under the Radar

- Not a "disease" you feel—just a clustering of borderline lab abnormalities.
- Each abnormality dismissed individually; the pattern is missed when labs are siloed.
- Insulin resistance is the root cause, but insulin levels are rarely measured in primary care.
- Waist circumference is a key criterion yet often not measured or recorded systematically.
- No single diagnosis code—metabolic syndrome is not captured in billing systems the way diabetes is.

### What Changed in 2026

#### CKM Syndrome & New Guidelines

The concept of **CKM syndrome** (cardiovascular-kidney-metabolic) was formally introduced, recognizing that metabolic abnormalities, chronic kidney disease, and cardiovascular risk are inseparable. PREVENT guidelines now include metabolic inputs—HbA1c and albumin-to-creatinine ratio—as formal components of risk assessment.

#### Lipid Assessment Shift

ApoB and non-HDL-C are now preferred over LDL-C in metabolic patients. In metabolic syndrome, LDL particle size is small and dense; LDL-C alone misses this atherogenic pattern.

### MyCardioAdvocate™ Checklist

#### 1. Do I meet diagnostic criteria for metabolic syndrome?

At least 3 of 5: elevated fasting glucose, elevated blood pressure, low HDL, high triglycerides, increased waist circumference. Ask your provider.

#### 2. Is insulin resistance being actively addressed?

Ask: Has my fasting insulin been measured? Am I on metformin or a GLP-1 RA?

### 3. Are my lipids assessed with ApoB, not just LDL-C?

In metabolic syndrome, LDL particle count (reflected by ApoB) matters more than LDL-C.

### 4. Am I on a GLP-1 RA or SGLT2 inhibitor for cardiometabolic protection?

Even without diabetes, these agents have cardiovascular benefit in metabolic syndrome.

### 5. Do I have a comprehensive metabolic approach to treatment?

Lifestyle + appropriate pharmacotherapy targeting the whole cluster, not isolated risk factors.

## CPR Opportunity

### When Does Metabolic Syndrome Warrant Pharmacotherapy vs. Lifestyle Alone?

This is where shared decision-making matters. If you have metabolic syndrome with preserved ejection fraction and no prior cardiovascular events, intensive lifestyle modification is the foundation. But if you have metabolic syndrome plus hypertension, albuminuria, or borderline diabetes, pharmacotherapy—including GLP-1 RA or SGLT2i—should be considered sooner rather than later.

### Off-Label Use in Non-Diabetic Metabolic Syndrome

SGLT2i and GLP-1 RA have strong trial evidence for cardiovascular protection in metabolic syndrome patients who do not yet have diabetes. This is growing evidence for off-label use, and an increasing number of cardiologists now recommend these agents in high-risk metabolic syndrome even without diabetes diagnosis.

## On the Horizon

- Triple therapy combinations: GLP-1 RA + SGLT2i + finerenone for advanced metabolic cardiorenal protection.
- Formal CKM risk assessment tools that unify metabolic, renal, and cardiovascular risk stratification.
- Expanded use of continuous glucose monitoring in non-diabetic metabolic syndrome to guide intervention.

## Key Takeaways

- Metabolic syndrome is a unifying diagnosis, not just a collection of borderline abnormalities.
- Insulin resistance is the root—assess it, don't ignore it.
- CKM syndrome concept links metabolic risk to kidney and cardiovascular disease.
- GLP-1 RA and SGLT2i have cardiovascular benefits in metabolic syndrome, even without diabetes.
- ApoB-based lipid assessment is more accurate than LDL-C alone in metabolic patients.

## Next Steps & Related Content

- **Next Step:** Ask your provider: "Do I meet criteria for metabolic syndrome? If so, what's our treatment target?"
- **Related:** Metabolic Syndrome article | Atherogenic Triad | Diabetes | Visceral Adiposopathy

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