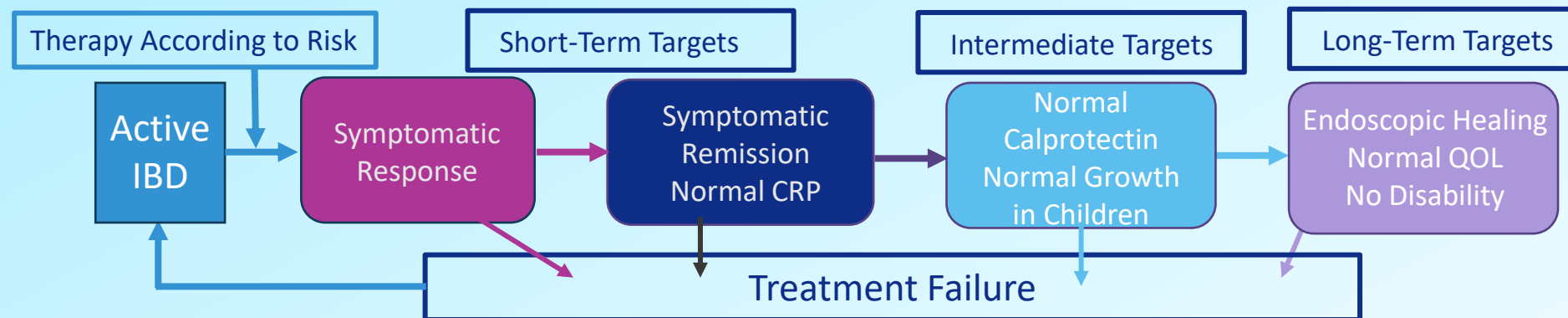


# STRIDE II and Establishing Treatment Goals

- Selecting Therapeutic Targets in Inflammatory Bowel Disease (STRIDE-II)
  - Initiative of the International Organization for the Study of IBD; 2021 update
  - Provides guidance on selecting therapies to achieve short- and long-term targets
    - Treatment tailored to individual's response to therapy
    - Studies have demonstrated clinical benefits of treat-to-target strategies
    - Regular assessment is potentially time-consuming and expensive



- Gaps in knowledge
  - QOL assessments that can easily be used in clinical practice
  - Validated endoscopic healing thresholds

# Monitoring IBD with Biomarkers

- Treating to target goals requires regular monitoring
- AGA recently released guidelines for using a combination of symptoms and biomarkers to potentially reduce endoscopy frequency in UC
  - Biomarkers: fecal calprotectin, fecal lactoferrin, or serum C-reactive protein
  - Thresholds for elevated levels
    - >150 µg/g fecal calprotectin, 7.5 µg/g fecal lactoferrin, >5 mg/L CRP

Symptoms Status		Biomarker Status		Recommendation
Remission	+	Elevated	→	Endoscopic assessment; repeat biomarker measurements in 3-6 months is a reasonable alternative
Mild	+	Normal or Elevated	→	Endoscopic assessment rather than empiric treatment adjustment
Moderate-to-Severe	+	Elevated	→	Empiric treatment adjustment without endoscopy

# Future Directions for Monitoring with Biomarkers

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- C-reactive protein and fecal calprotectin predict disease activity and are currently used in clinical practice<sup>1</sup>
  - Limited accuracy; intermediate values are not predictive<sup>2</sup>
- Current research underway to identify additional biomarkers that monitor disease progression and possibly distinguish between UC and CD<sup>1,3</sup>
  - Proteins
  - Lipids
  - Genetic and epigenetic expression
- Composites of multiple biomarkers are likely to have greater accuracy than any single measure<sup>1</sup>

# Ultrasound for Monitoring IBD

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- Endoscopy is the gold standard for evaluating intestinal inflammation and damage in the diagnosis and monitoring of IBD
- Recent studies have evaluated effectiveness of ultrasound (US) for monitoring progression and response to therapy
  - US measurements of bowel wall thickness correlated with endoscopic remission and response following tofacitinib treatment in patients with UC<sup>1</sup>
  - US assessments correlated with those of colonoscopy and MRE, with high specificity and sensitivity, for localization, enhancement, ulcer activity, and complications in patients with CD<sup>2</sup>
- Advantages of ultrasound: less invasive, less expensive