**Diagnostic Flow Diagram**

**Spirometric Interpretation**

for adequately performed maneuvers after review of Flow Volume Loop

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**Obstructive Defect**

- Is FVC Low? (<80% of predicted)
  - Yes
    - Reverse FEV1 by 12% and 200 ml
  - No
    - Combined Defect of Obstruction and Restriction /or Hyperinflation
      - Reverse FEV1 by 12% and 200 ml
      - Further Testing with Full PFT’s
      - If FEV1/FVC ratio still <0.7 (LLN) then need clinically to decide if COPD or partially treated Asthma or both

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**Restrictive pattern**

**Obstruction Severity (FEV1)**
- >80% Mild
- 50-80% Moderate
- <50% Severe
- <30% very severe

**Restriction Severity (FVC)**
- 65-80% Mild
- 50-65% Moderate
- <50% Severe

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**Pure Obstruction**

- Reverse FEV1 by 12% &200 ml

**Reverse FEV1 by 12% &200 ml**

- Yes
  - Suspect Asthma
  - Suspect COPD
  - Restrictive pattern
  - Normal

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**Is FVC Low? (<80% of predicted)**

- Yes
  - Further Testing with Full PFT’s
  - If FEV1/FVC ratio still <0.7 (LLN) then need clinically to decide if COPD or partially treated Asthma or both

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**Is FEV₁/FVC Ratio Low? (<70% for consideration of COPD)**

- Yes
  - Reverse FEV1 by 12% &200 ml
  - Not a necessary step

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**Is FVC Low? (<80% of predicted)**

- Yes
  - Reverse FEV1 by 12% &200 ml

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**Reverse FEV1 by 12% &200 ml**

- Yes
  - Suspect Asthma
  - May need further testing with full PFTs if persistent restriction

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**Alan Kaplan 2011**