Chart Review Worksheet Instructions

- To complete this chart review, please select 10 patient charts that meet the following criteria:

  *Percentage of patients who received 1 or more HbA1c tests in the past year*
  - *Secondary measure: Trend of HbA1c values*
  - *Distribution of number of tests done (0, 1, 2, ≥ 3)*
  - *Distribution of most recent HbA1c value by range: < 6.0%, 6.0%-6.9%, 7.0%-7.9%, 8.0%-8.9%, 9.0%-9.9%, 10% or greater, undocumented*

- Answer all questions on the form.

- Return to the PI CME online chart review forms at [http://www.medscape.org/picme/start/107](http://www.medscape.org/picme/start/107) to enter the information from each worksheet.

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**Chart Review Criteria:** Patients aged 18-75 who have been diagnosed with type 2 diabetes (ie, electronic medical record or Billing System whose record contains the term “diabetes” or diagnosis code of 250.nn.)
Optimizing Better Patient Outcomes in Type 2 Diabetes: Focus on Getting to Glycemic Goals: Performance Improvement CME PI CME

Chart Review

1. How many recorded hemoglobin A1c (HbA1c) tests has this patient had in the past year?
   - [ ] 0
   - [ ] 1
   - [ ] 2
   - [ ] 3
   - [ ] 4

2. If ≥1, what was the value of the most recent test?
   - [ ] Less than 6.0%
   - [ ] 6.0% to 6.9%
   - [ ] 7.0% to 7.9
   - [ ] 8.0% - 8.9%
   - [ ] 9.0% - 9.9%
   - [ ] Greater than 9.9%

3. Has the patient been prescribed metformin?
   - [ ] Yes
   - [ ] No, because of renal insufficiency
   - [ ] No, because of gastrointestinal intolerance
   - [ ] No

4. If the patient’s HbA1c is greater than 9.0% and is symptomatic, what treatment is the patient under?
   - [ ] Combination oral agents and insulin
   - [ ] Combination oral agents
   - [ ] None

Chart Review Criteria: Patients aged 18-75 who have been diagnosed with type 2 diabetes (ie, electronic medical record or Billing System whose record contains the term “diabetes” or diagnosis code of 250.nn.)
Optimizing Better Patient Outcomes in Type 2 Diabetes: Focus on Getting to Glycemic Goals: Performance Improvement CME PI CME

5. Does the chart contain documentation that the patient has been taught to monitor his or her blood glucose?
   - Yes
   - No

6. Is the patient engaged in self-monitoring?
   - Yes
   - No

7. If so, what is the patient's most recent pre-meal glucose value per the medical record?
   - 70-130 mg/dL
   - 131-170 mg/dL
   - Greater than 171 mg/dL
   - Not recorded

8. If so, what is the patient's most recent postprandial glucose value per the medical record?
   - Less than 180 mg/dL
   - Greater than 180 mg/dL
   - Not recorded

9. Does the chart contain documentation that the patient has received lifestyle advice/education? [Please check all that apply]
   - No
   - Yes, regarding diet
   - Yes, regarding exercise
   - Yes, regarding smoking cessation
   - Yes, regarding multiple lifestyle interventions

Chart Review Criteria: Patients aged 18-75 who have been diagnosed with type 2 diabetes (ie, electronic medical record or Billing System whose record contains the term “diabetes” or diagnosis code of 250.nn.)
**Chart Review**

**Patient 2 of 10**

1. How many recorded hemoglobin A1c (HbA1c) tests has this patient had in the past year?
   - □ 0
   - □ 1
   - □ 2
   - □ 3
   - □ 4

2. If ≥1, what was the value of the most recent test?
   - □ Less than 6.0%
   - □ 6.0% to 6.9%
   - □ 7.0% to 7.9%
   - □ 8.0% - 8.9%
   - □ 9.0% - 9.9%
   - □ Greater than 9.9%

3. Has the patient been prescribed metformin?
   - □ Yes
   - □ No, because of renal insufficiency
   - □ No, because of gastrointestinal intolerance
   - □ No

4. If the patient's HbA1c is greater than 9.0% and is symptomatic, what treatment is the patient under?
   - □ Combination oral agents and insulin
   - □ Combination oral agents
   - □ None

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**Chart Review Criteria:** Patients aged 18-75 who have been diagnosed with type 2 diabetes (ie, electronic medical record or Billing System whose record contains the term “diabetes” or diagnosis code of 250.nn.)
5. Does the chart contain documentation that the patient has been taught to monitor his or her blood glucose?

☐ Yes
☐ No

6. Is the patient engaged in self-monitoring?

☐ Yes
☐ No

7. If so, what is the patient's most recent pre-meal glucose value per the medical record?

☐ 70-130 mg/dL
☐ 131-170 mg/dL
☐ Greater than 171 mg/dL
☐ Not recorded

8. If so, what is the patient's most recent postprandial glucose value per the medical record?

☐ Less than 180 mg/dL
☐ Greater than 180 mg/dL
☐ Not recorded

9. Does the chart contain documentation that the patient has received lifestyle advice/education? [Please check all that apply]

☐ No
☐ Yes, regarding diet
☐ Yes, regarding exercise
☐ Yes, regarding smoking cessation
☐ Yes, regarding multiple lifestyle interventions

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Chart Review Criteria: Patients aged 18-75 who have been diagnosed with type 2 diabetes (ie, electronic medical record or Billing System whose record contains the term “diabetes” or diagnosis code of 250.nn.)
Chart Review

Patient 3 of 10

1. How many recorded hemoglobin A1c (HbA1c) tests has this patient had in the past year?
   - 0
   - 1
   - 2
   - 3
   - 4

2. If ≥1, what was the value of the most recent test?
   - Less than 6.0%
   - 6.0% to 6.9%
   - 7.0% to 7.9
   - 8.0% - 8.9%
   - 9.0% - 9.9%
   - Greater than 9.9%

3. Has the patient been prescribed metformin?
   - Yes
   - No, because of renal insufficiency
   - No, because of gastrointestinal intolerance
   - No

4. If the patient's HbA1c is greater than 9.0% and is symptomatic, what treatment is the patient under?
   - Combination oral agents and insulin
   - Combination oral agents
   - None

Chart Review Criteria: Patients aged 18-75 who have been diagnosed with type 2 diabetes (ie, electronic medical record or Billing System whose record contains the term “diabetes” or diagnosis code of 250.nn.)
5. Does the chart contain documentation that the patient has been taught to monitor his or her blood glucose?

☐ Yes
☐ No

6. Is the patient engaged in self-monitoring?

☐ Yes
☐ No

7. If so, what is the patient's most recent pre-meal glucose value per the medical record?

☐ 70-130 mg/dL
☐ 131-170 mg/dL
☐ Greater than 171 mg/dL
☐ Not recorded

8. If so, what is the patient's most recent postprandial glucose value per the medical record?

☐ Less than 180 mg/dL
☐ Greater than 180 mg/dL
☐ Not recorded

9. Does the chart contain documentation that the patient has received lifestyle advice/education? [Please check all that apply]

☐ No
☐ Yes, regarding diet
☐ Yes, regarding exercise
☐ Yes, regarding smoking cessation
☐ Yes, regarding multiple lifestyle interventions

Chart Review Criteria: Patients aged 18-75 who have been diagnosed with type 2 diabetes (ie, electronic medical record or Billing System whose record contains the term “diabetes” or diagnosis code of 250.nn.)
Chart Review

Patient 4 of 10

1. How many recorded hemoglobin A1c (HbA1c) tests has this patient had in the past year?
   - □ 0
   - □ 1
   - □ 2
   - □ 3
   - □ 4

2. If ≥1, what was the value of the most recent test?
   - □ Less than 6.0%
   - □ 6.0% to 6.9%
   - □ 7.0% to 7.9
   - □ 8.0% - 8.9%
   - □ 9.0% - 9.9%
   - □ Greater than 9.9%

3. Has the patient been prescribed metformin?
   - □ Yes
   - □ No, because of renal insufficiency
   - □ No, because of gastrointestinal intolerance
   - □ No

4. If the patient's HbA1c is greater than 9.0% and is symptomatic, what treatment is the patient under?
   - □ Combination oral agents and insulin
   - □ Combination oral agents
   - □ None

Chart Review Criteria: Patients aged 18-75 who have been diagnosed with type 2 diabetes (ie, electronic medical record or Billing System whose record contains the term “diabetes” or diagnosis code of 250.nn.)
5. Does the chart contain documentation that the patient has been taught to monitor his or her blood glucose?
   - [ ] Yes
   - [ ] No

6. Is the patient engaged in self-monitoring?
   - [ ] Yes
   - [ ] No

7. If so, what is the patient’s most recent pre-meal glucose value per the medical record?
   - [ ] 70-130 mg/dL
   - [ ] 131-170 mg/dL
   - [ ] Greater than 171 mg/dL
   - [ ] Not recorded

8. If so, what is the patient’s most recent postprandial glucose value per the medical record?
   - [ ] Less than 180 mg/dL
   - [ ] Greater than 180 mg/dL
   - [ ] Not recorded

9. Does the chart contain documentation that the patient has received lifestyle advice/education? [Please check all that apply]
   - [ ] No
   - [ ] Yes, regarding diet
   - [ ] Yes, regarding exercise
   - [ ] Yes, regarding smoking cessation
   - [ ] Yes, regarding multiple lifestyle interventions
Chart Review

Patient 5 of 10

1. How many recorded hemoglobin A1c (HbA1c) tests has this patient had in the past year?
   - □ 0
   - □ 1
   - □ 2
   - □ 3
   - □ 4

2. If ≥1, what was the value of the most recent test?
   - □ Less than 6.0%
   - □ 6.0% to 6.9%
   - □ 7.0% to 7.9
   - □ 8.0% - 8.9%
   - □ 9.0% - 9.9%
   - □ Greater than 9.9%

3. Has the patient been prescribed metformin?
   - □ Yes
   - □ No, because of renal insufficiency
   - □ No, because of gastrointestinal intolerance
   - □ No

4. If the patient's HbA1c is greater than 9.0% and is symptomatic, what treatment is the patient under?
   - □ Combination oral agents and insulin
   - □ Combination oral agents
   - □ None

Chart Review Criteria: Patients aged 18-75 who have been diagnosed with type 2 diabetes (ie, electronic medical record or Billing System whose record contains the term “diabetes” or diagnosis code of 250.nn.)
5. Does the chart contain documentation that the patient has been taught to monitor his or her blood glucose?
   - Yes
   - No

6. Is the patient engaged in self-monitoring?
   - Yes
   - No

7. If so, what is the patient’s most recent pre-meal glucose value per the medical record?
   - 70-130 mg/dL
   - 131-170 mg/dL
   - Greater than 171 mg/dL
   - Not recorded

8. If so, what is the patient’s most recent postprandial glucose value per the medical record?
   - Less than 180 mg/dL
   - Greater than 180 mg/dL
   - Not recorded

9. Does the chart contain documentation that the patient has received lifestyle advice/education? [Please check all that apply]
   - No
   - Yes, regarding diet
   - Yes, regarding exercise
   - Yes, regarding smoking cessation
   - Yes, regarding multiple lifestyle interventions

**Chart Review Criteria:** Patients aged 18-75 who have been diagnosed with type 2 diabetes (ie, electronic medical record or Billing System whose record contains the term “diabetes” or diagnosis code of 250.nn.)
**Chart Review**

**Patient 6 of 10**

1. How many recorded hemoglobin A1c (HbA1c) tests has this patient had in the past year?
   - □ 0
   - □ 1
   - □ 2
   - □ 3
   - □ 4

2. If ≥1, what was the value of the most recent test?
   - □ Less than 6.0%
   - □ 6.0% to 6.9%
   - □ 7.0% to 7.9
   - □ 8.0% - 8.9%
   - □ 9.0% - 9.9%
   - □ Greater than 9.9%

3. Has the patient been prescribed metformin?
   - □ Yes
   - □ No, because of renal insufficiency
   - □ No, because of gastrointestinal intolerance
   - □ No

4. If the patient's HbA1c is greater than 9.0% and is symptomatic, what treatment is the patient under?
   - □ Combination oral agents and insulin
   - □ Combination oral agents
   - □ None

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**Chart Review Criteria:** Patients aged 18-75 who have been diagnosed with type 2 diabetes (ie, electronic medical record or Billing System whose record contains the term "diabetes" or diagnosis code of 250.nn.)
5. Does the chart contain documentation that the patient has been taught to monitor his or her blood glucose?

- Yes
- No

6. Is the patient engaged in self-monitoring?

- Yes
- No

7. If so, what is the patient's most recent pre-meal glucose value per the medical record?

- 70-130 mg/dL
- 131-170 mg/dL
- Greater than 171 mg/dL
- Not recorded

8. If so, what is the patient's most recent postprandial glucose value per the medical record?

- Less than 180 mg/dL
- Greater than 180 mg/dL
- Not recorded

9. Does the chart contain documentation that the patient has received lifestyle advice/education? [Please check all that apply]

- No
- Yes, regarding diet
- Yes, regarding exercise
- Yes, regarding smoking cessation
- Yes, regarding multiple lifestyle interventions

**Chart Review Criteria:** Patients aged 18-75 who have been diagnosed with type 2 diabetes (i.e., electronic medical record or Billing System whose record contains the term “diabetes” or diagnosis code of 250.nn.)
Chart Review

Patient 7 of 10

1. How many recorded hemoglobin A1c (HbA1c) tests has this patient had in the past year?
   - [ ] 0
   - [ ] 1
   - [ ] 2
   - [ ] 3
   - [ ] 4

2. If ≥1, what was the value of the most recent test?
   - [ ] Less than 6.0%
   - [ ] 6.0% to 6.9%
   - [ ] 7.0% to 7.9
   - [ ] 8.0% - 8.9%
   - [ ] 9.0% - 9.9%
   - [ ] Greater than 9.9%

3. Has the patient been prescribed metformin?
   - [ ] Yes
   - [ ] No, because of renal insufficiency
   - [ ] No, because of gastrointestinal intolerance
   - [ ] No

4. If the patient's HbA1c is greater than 9.0% and is symptomatic, what treatment is the patient under?
   - [ ] Combination oral agents and insulin
   - [ ] Combination oral agents
   - [ ] None

Chart Review Criteria: Patients aged 18-75 who have been diagnosed with type 2 diabetes (ie, electronic medical record or Billing System whose record contains the term “diabetes” or diagnosis code of 250.nn.)
5. Does the chart contain documentation that the patient has been taught to monitor his or her blood glucose?
   - Yes
   - No

6. Is the patient engaged in self-monitoring?
   - Yes
   - No

7. If so, what is the patient's most recent pre-meal glucose value per the medical record?
   - 70-130 mg/dL
   - 131-170 mg/dL
   - Greater than 171 mg/dL
   - Not recorded

8. If so, what is the patient's most recent postprandial glucose value per the medical record?
   - Less than 180 mg/dL
   - Greater than 180 mg/dL
   - Not recorded

9. Does the chart contain documentation that the patient has received lifestyle advice/education? [Please check all that apply]
   - No
   - Yes, regarding diet
   - Yes, regarding exercise
   - Yes, regarding smoking cessation
   - Yes, regarding multiple lifestyle interventions

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**Chart Review Criteria:** Patients aged 18-75 who have been diagnosed with type 2 diabetes (ie, electronic medical record or Billing System whose record contains the term "diabetes" or diagnosis code of 250.nn.)
Chart Review

Patient 8 of 10

1. How many recorded hemoglobin A1c (HbA1c) tests has this patient had in the past year?
   - [ ] 0
   - [ ] 1
   - [ ] 2
   - [ ] 3
   - [ ] 4

2. If ≥1, what was the value of the most recent test?
   - [ ] Less than 6.0%
   - [ ] 6.0% to 6.9%
   - [ ] 7.0% to 7.9
   - [ ] 8.0% - 8.9%
   - [ ] 9.0% - 9.9%
   - [ ] Greater than 9.9%

3. Has the patient been prescribed metformin?
   - [ ] Yes
   - [ ] No, because of renal insufficiency
   - [ ] No, because of gastrointestinal intolerance
   - [ ] No

4. If the patient's HbA1c is greater than 9.0% and is symptomatic, what treatment is the patient under?
   - [ ] Combination oral agents and insulin
   - [ ] Combination oral agents
   - [ ] None

Chart Review Criteria: Patients aged 18-75 who have been diagnosed with type 2 diabetes (ie, electronic medical record or Billing System whose record contains the term "diabetes" or diagnosis code of 250.nn.)
5. Does the chart contain documentation that the patient has been taught to monitor his or her blood glucose?
   - [ ] Yes
   - [ ] No

6. Is the patient engaged in self-monitoring?
   - [ ] Yes
   - [ ] No

7. If so, what is the patient's most recent pre-meal glucose value per the medical record?
   - [ ] 70-130 mg/dL
   - [ ] 131-170 mg/dL
   - [ ] Greater than 171 mg/dL
   - [ ] Not recorded

8. If so, what is the patient's most recent postprandial glucose value per the medical record?
   - [ ] Less than 180 mg/dL
   - [ ] Greater than 180 mg/dL
   - [ ] Not recorded

9. Does the chart contain documentation that the patient has received lifestyle advice/education? [Please check all that apply]
   - [ ] No
   - [ ] Yes, regarding diet
   - [ ] Yes, regarding exercise
   - [ ] Yes, regarding smoking cessation
   - [ ] Yes, regarding multiple lifestyle interventions

Chart Review Criteria: Patients aged 18-75 who have been diagnosed with type 2 diabetes (ie, electronic medical record or Billing System whose record contains the term “diabetes” or diagnosis code of 250.nn.)
Chart Review

Patient 9 of 10

1. How many recorded hemoglobin A1c (HbA1c) tests has this patient had in the past year?
   - 0
   - 1
   - 2
   - 3
   - 4

2. If ≥1, what was the value of the most recent test?
   - Less than 6.0%
   - 6.0% to 6.9%
   - 7.0% to 7.9
   - 8.0% - 8.9%
   - 9.0% - 9.9%
   - Greater than 9.9%

3. Has the patient been prescribed metformin?
   - Yes
   - No, because of renal insufficiency
   - No, because of gastrointestinal intolerance
   - No

4. If the patient's HbA1c is greater than 9.0% and is symptomatic, what treatment is the patient under?
   - Combination oral agents and insulin
   - Combination oral agents
   - None

Chart Review Criteria: Patients aged 18-75 who have been diagnosed with type 2 diabetes (ie, electronic medical record or Billing System whose record contains the term “diabetes” or diagnosis code of 250.nn.)
5. Does the chart contain documentation that the patient has been taught to monitor his or her blood glucose?
   - Yes
   - No

6. Is the patient engaged in self-monitoring?
   - Yes
   - No

7. If so, what is the patient’s most recent pre-meal glucose value per the medical record?
   - 70-130 mg/dL
   - 131-170 mg/dL
   - Greater than 171 mg/dL
   - Not recorded

8. If so, what is the patient’s most recent postprandial glucose value per the medical record?
   - Less than 180 mg/dL
   - Greater than 180 mg/dL
   - Not recorded

9. Does the chart contain documentation that the patient has received lifestyle advice/education? [Please check all that apply]
   - No
   - Yes, regarding diet
   - Yes, regarding exercise
   - Yes, regarding smoking cessation
   - Yes, regarding multiple lifestyle interventions

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**Chart Review Criteria:** Patients aged 18-75 who have been diagnosed with type 2 diabetes (ie, electronic medical record or Billing System whose record contains the term “diabetes” or diagnosis code of 250.nn.)
Chart Review

Patient 10 of 10

1. How many recorded hemoglobin A1c (HbA1c) tests has this patient had in the past year?
   - [ ] 0
   - [ ] 1
   - [ ] 2
   - [ ] 3
   - [ ] 4

2. If ≥1, what was the value of the most recent test?
   - [ ] Less than 6.0%
   - [ ] 6.0% to 6.9%
   - [ ] 7.0% to 7.9
   - [ ] 8.0% - 8.9%
   - [ ] 9.0% - 9.9%
   - [ ] Greater than 9.9%

3. Has the patient been prescribed metformin?
   - [ ] Yes
   - [ ] No, because of renal insufficiency
   - [ ] No, because of gastrointestinal intolerance
   - [ ] No

4. If the patient's HbA1c is greater than 9.0% and is symptomatic, what treatment is the patient under?
   - [ ] Combination oral agents and insulin
   - [ ] Combination oral agents
   - [ ] None

Chart Review Criteria: Patients aged 18-75 who have been diagnosed with type 2 diabetes (ie, electronic medical record or Billing System whose record contains the term “diabetes” or diagnosis code of 250.nn.)
5. Does the chart contain documentation that the patient has been taught to monitor his or her blood glucose?
   - Yes
   - No

6. Is the patient engaged in self-monitoring?
   - Yes
   - No

7. If so, what is the patient's most recent pre-meal glucose value per the medical record?
   - 70-130 mg/dL
   - 131-170 mg/dL
   - Greater than 171 mg/dL
   - Not recorded

8. If so, what is the patient's most recent postprandial glucose value per the medical record?
   - Less than 180 mg/dL
   - Greater than 180 mg/dL
   - Not recorded

9. Does the chart contain documentation that the patient has received lifestyle advice/education? [Please check all that apply]
   - No
   - Yes, regarding diet
   - Yes, regarding exercise
   - Yes, regarding smoking cessation
   - Yes, regarding multiple lifestyle interventions

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**Chart Review Criteria:** Patients aged 18-75 who have been diagnosed with type 2 diabetes (ie, electronic medical record or Billing System whose record contains the term “diabetes” or diagnosis code of 250.nn.)