Ambulatory CDS/QI Worksheet (Simplified Version)

This worksheet describes the CDS configuration for blood pressure control for patients with a BP greater than 140/90, implemented by Dr. Christopher Tashjian and colleagues at Ellsworth Medical Clinic. For further narrative details, see the corresponding QI case study [Placeholder link to HealthIT.gov]

Provided By:

The National Learning Consortium (NLC)

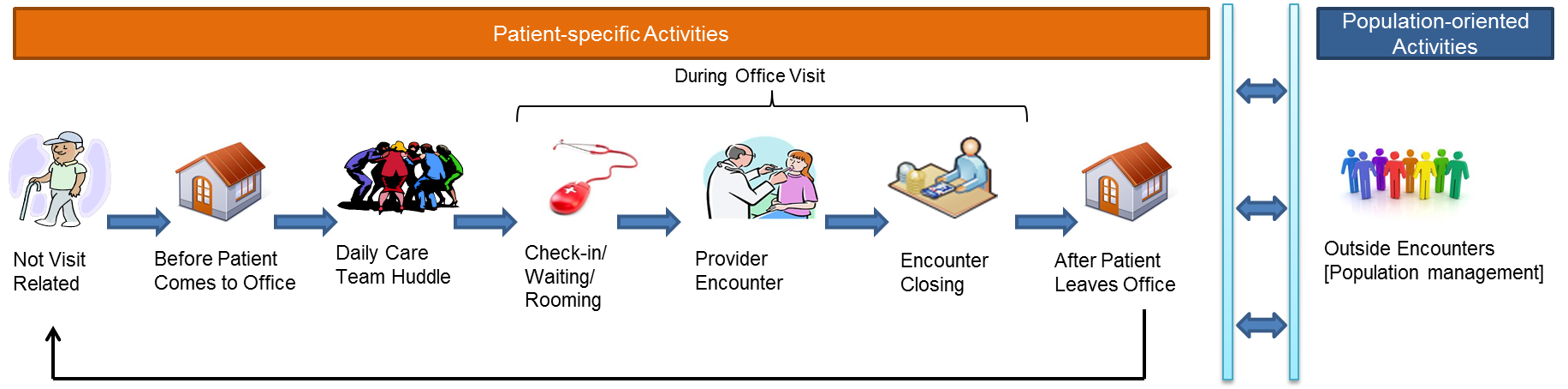
Developed By:

Clinical Decision Support for Meaningful Use (CDS4MU)

*The material in this document was developed by Clinical Decision Support for Meaningful Use (CDS4MU) project sponsored by ONC to support Regional Extension Centers and providers to implement Quality Improvement initiatives. The material stemmed from work of the* [*CDS/PI Collaborative*](https://sites.google.com/site/cdsforpiimperativespublic/) *(supported by the* [*California Healthcare Foundation*](http://www.chcf.org/)*), which builds, in turn, on the* [*HIMSS CDS Guidebook Series*](http://www.himss.org/Index.aspx)*. The information in this document is not intended to serve as legal advice nor should it substitute for legal counsel. Users are encouraged to seek additional detailed technical guidance to supplement the information contained within.*

**Ambulatory CDS/QI Worksheet (Simplified Version)**

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| **Target** | Achieve better blood pressure (BP) control in patients with BP greater than 140/90. |
| **Current Performance on Target** | As of December 2012, 90% of patients diagnosed with hypertension, diabetes or stroke have their BP controlled to within the target range. |

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**CDS-QI Approach Summary**

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|  | **Not Visit**  **Related** | **Before Patient**  **Comes to Office** | **Daily Care**  **Team Huddle** | **Check-in/**  **Waiting/**  **Rooming** | **Provider Encounter** | **Encounter**  **Closing** | **After Patient Leaves Office** | **Outside Encounters**  **[Population management]** |
| **Current**  **Information flow** | Seek opportunities to identify need to check and control BP when patient contacts office outside of provider visits. | Use pre-visit planning sheet to highlight needed interventions. | Pre-assemble data needed for decision making during the visit, and tee up needed interventions. | Gather and document key BP-related patient data, flagging elevated BP’s for heightened attention. | Use EHR filters and templates to help highlight and document key hypertension-related data, and other EHR tools to support ordering and patient education. | Recheck elevated BPs and activate protocols to ensure appropriate patient and staff follow-up and action after the visit. | Use protocols to ensure that follow-up BPs, lab results, and follow-up provider visits are addressed as appropriate. Leverage patient portal. | Generate lists of patients not at BP goals, and execute protocols for corrective actions. |
| **Planned Enhancements** | Greater use of management protocols. | Leverage patient portal better. | Enhance huddle logistics to include Care Coordinators (CCs) in visits. | Enhance medication reconciliation process at intake. | Make registry/patient list functionality more real-time to help provider identify and address care gaps during the visit. | Establish visit teams. | Examine and improve recall/reminder process. | Enhance BP registry function. |

***Section 1: Activities that occur with specific patients***

*(Note: population management activities, e.g. Registry use, belong in Section 2)*

*A. These activities occur when the patient is not in the office (see C. below for activities “After Patient Leaves Office”)*

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| not-vist related image | Not Visit-Related | Description: Not related to a patient's visit to the office/clinic or just before or after that visit |
| Current  Information flow | * Identify and address patients needing BP visits or lab work when they call for med refills. Do BP checks at all ***lab*** visits if the patient had a previous elevated BP. Provide patient portal to help patients reach the practice. * When a patient requests a medication refill and is due for a visit or lab work, a “return to clinic” order is generated. This triggers reminders in the EHR and outreach to patients by CCs. |
| Planned Enhancements | * Make broader use of medication titration protocols when blood pressure increases are discovered outside provider visits (e.g., during lab visits). |

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| This is a clip-art image of a builiding representing a provider practice. | Before Patient Comes to Office | Description: After a patient has an office visit scheduled but before they arrive for that appointment |
| Current  Information flow | * The day before a patient office visit (or same day if same day visit), patient record is reviewed by a CC or Medical Assistant (MA) for necessary services related to chronic or preventive needs based on documented care plan. After reviewing EHR record, MA indicates on a paper pre-visit planning sheet what services are needed. CC reviews provider schedules and patient chart and adds to Care Plan. MA refers patients with elevated BP for heightened attention (e.g., RN medication titration per protocol) through CC pool. |
| Planned Enhancements | * Exploring using the patient portal for “e-Visits” and to have patient-completed forms entered directly into EHR. |

*B. These activities occur when the patient is in the office*

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| Picture of a team huddle | Daily Care Team Huddle | Description: Provider team preparations for all patient visits scheduled for the day |
| Current  Information flow | At the start of the day, the CC or MA reviews pre-visit planning form, and other sources (e.g., hospital EHR) focusing on:   * Gathering key data such as reports from recent tests, consultations, hospitalizations, ED visits. * Planning/scheduling tests/treatments needed during the visit. |
| Planned Enhancements | * CCs are working on developing ways to review provider schedules to identify patients that they have worked with so they can be in attendance at the visit. |

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| mouse stethoscope image | Check-in/ Waiting Rooming | Description: After patient checks in, before encounter with clinical team |
| Current  Information flow | * When the patient arrives, the front desk staff updates insurance information, demographics, DOB, and other key data in the EHR, and provides patient with necessary forms for visit (e.g., health history, PHQ-9 [brief assessment for depression – which can affect care plan adherence] and assessment of alcohol use [which can affect blood pressure]). Forms are also available on practice website for patients to download before the visit. Patient education materials may be provided as indicated on pre-visit planning form. * Patient completes forms and reviews educational materials while waiting for provider visit. * Front desk staff scans completed forms into EHR, and makes updates into EHR practice management modules. * On rooming patient, MA documents vital signs, medications, and reviews information on pre-visit planning and other forms. All patients with BP readings 140/90 or above that have magnet on door for BP recheck get BP checked again after 15 minutes by provider or MA. A protocol directs the BP recheck procedure, and includes ‘return to clinic’ orders for BP rechecks if BP remains elevated. Patient education material (e.g. low sodium diet) is provided if indicated on pre-visit planning form. * Formal rooming process includes MA assessment for patient non-adherence to medication regimen, and documentation using condition-specific templates (including for hypertension). |
| Planned Enhancements | * Develop process for medication reconciliation at time of visit so all between-visit encounters regarding medication changes are known to staff, provider and patient. |

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| This image shows a clip-art image of a physician giving a woman a check-up. | Provider Encounter | Description: Main encounter with Provider |
| Current  Information flow | * Filters in EHR and links to pertinent outside data sources (e.g., hospital EHR), facilitate provider review of key data, and documentation templates help ensure that key history and physical data are assessed and documented (e.g., interval BP labs and BP med/diet/lifestyle compliance problems). After examining patient, provider and patient jointly develop a plan of care pre-populated with options including patient education, and referrals for smoking cessation/nutritionist/cardiologist. * Order sets to help ensure that needed medications, labs, etc. are ordered. * Provider gives pertinent patient education information at end of visit if not already done by MA on rooming. Education materials available in both print and EHR; favorite lists in EHR speed provider and MA access to needed materials for a particular patient. |
| Planned Enhancements | * Currently developing a database for patients with diabetes and ischemic vascular disease that will be accessible to the provider and medical assistants in the patient exam room.  This database will highlight clinical data needing attention during the patient visit, thereby supplementing the population management activities where similar information is reviewed and acted upon outside of office visits. |

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| This image is a visual representation of what should occur in the exam room after the | Encounter Closing | Description: After main provider encounter, but before patient leaves the office |
| Current  Information flow | * At the end of visit the MA rechecks the patient’s BP if it was elevated earlier. If still elevated after recheck, patient instructed to return in 1-2 weeks again for recheck as per protocol. * The MA also reviews After Visit Summary to ensure patient understands and can execute care plan (e.g., lifestyle changes to help reduce BP), and assists in scheduling follow-up appointments (e.g., for additional BP rechecks – at no further charge to the patient). * Orders placed for what is needed for follow up. These orders are used to place patients into reminder system. Recheck BP visit can be placed in EHR as well as a chart alert so that when it is opened it tells provider/MA that the patient needs follow up BP check. |
| Planned Enhancements | * More aggressive approaches to medication management. This includes teamwork between the care coordinator and mid-level providers in managing medication titration for hypertension (HTN) as well as lipids and tobacco use. * Trial of teams including 2 providers and 3 clinical support staff (CSS). One CSS is the “intake” staff and the primary CSS for the provider is the “visit” staff. The visit staff does the pre-visit planning and discharge at end of visit including medication reconciliation and placing Return to Clinic (RTC) orders. |

*C. These activities occur after the patient leaves the office*

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| This is a clip-art image of a builiding representing a provider practice. | After Patient Leaves Office | Description: The particular encounter has concluded and the patient is no longer in the office |
| Current  Information flow | * BP checks done between visits and referred to CC if elevated. CCs contact patients not at goal or who are in need of visit. Lab results reviewed and communicated to patient by CCs via phone as needed. Recall staff sends reminder letters via mail. Lab results sent via mail or patient portal in EHR. * Recheck BP is also done when patient comes in the next time for lab only visit. If remains elevated, patient is referred to CC. Lab results are reviewed by the provider when they come through the lab interface. |
| Planned Enhancements | * Intensive effort to flowchart the current Recall/Reminder process to identify barriers and opportunities to create a more robust process. |

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| stock team photo | Outside Encounters | Description: Activities focused on the entire patient panel |
| Current  Information flow | * CCs/MAs/Recall staff review patient lists generated from EHR and related reporting tools – for example, all patients with BP above target range. * Patients not at goal are reviewed and contacted by CCs. CCs discuss goals, lifestyle changes, diet, and exercise with patient. CCs provide patient education and community resources as needed. Refer to Diabetes/Dietician educators. RN may initiate medication titration per protocol. Care Plan is developed in EHR. Reminders are made in EHR and sent to the Recall staff for review. Reminders are mailed when the patient is due for service or recheck. |
| Planned Enhancements | * Working with EMR to develop patient registry for better BP management. |

***Section 2: Activities that relate to population management***