

## Ideal Features of eMedRec Solution Checklist

(Adapted with permission from the MARQUIS Manual 2014 p. 77-80)

Ideal Features of eMedRec Solution Checklist	
<b>1.</b>	<b>Describe the current IT landscape within your organization:</b> <span style="float: right;"><input type="checkbox"/></span>
<input type="checkbox"/>	Use of Computerized Provider Order Entry (CPOE).
<input type="checkbox"/>	Use of an inpatient electronic Medical Record (EMR).
<input type="checkbox"/>	Use of an electronic Medication Administration Record (eMAR).
<input type="checkbox"/>	Use of an eMedRec tool.
<input type="checkbox"/>	Investigate plans to change the current health information systems in the next 1-2 years.
<input type="checkbox"/>	Investigate organizational willingness to invest in any new systems.
<b>2.</b>	<b>Ideal features of an eMedRec tool</b> <span style="float: right;"><input type="checkbox"/></span>
<input type="checkbox"/>	Displays current medications and eBPMH lists side by side to facilitate comparison.
<input type="checkbox"/>	Allows filters for sorting medications for example, by therapeutic class, most recent date prescribed, ordering physician, discontinued medications, etc.
<input type="checkbox"/>	Displays medication history (current and previous, active and discontinued medications), ideally medications are displayed on a timeline.
<input type="checkbox"/>	Allows modification of medications: continue, discontinue, hold (optional), or change from the same screen. Ideally, the system is integrated with CPOE (if applicable) so that new medications can be prescribed as well.
<input type="checkbox"/>	Clearly identifies automatic formulary substitutions and automatically reverts these to original medications during discharge eMedRec.
<input type="checkbox"/>	For pre-admission accounts, allows eMedRec to occur any time before schedule re-visit (e.g., surgery).
<b>3.</b>	<b>Access to electronic source of preadmission medication information</b> <span style="float: right;"><input type="checkbox"/></span>
<input type="checkbox"/>	Community pharmacy prescription data.
<input type="checkbox"/>	Medication lists from ambulatory EMRs.
<input type="checkbox"/>	Discharge medication orders from recent hospitalizations at participating hospitals and/or hospitals in the region.
<input type="checkbox"/>	Medication lists from patient personal health records (ideally linked to the ambulatory EMR) and electronic provincial medication record.

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<b>4. Facilitates the comparison of various sources of preadmission medication information</b>		<input type="checkbox"/>
<input type="checkbox"/>	Identifies the source(s) of information for each medication.	
<input type="checkbox"/>	Displays dates prescribed/ordered as appropriate for each source.	
<input type="checkbox"/>	Highlights differences in doses frequencies, routes, and formulations for each medication.	
<input type="checkbox"/>	Allows sorting of medication by name, class, date and source.	
<b>5. Ability to show patient adherence to medications</b>		<input type="checkbox"/>
<input type="checkbox"/>	Calculation of medication possession ratio and/or graphs of medication possession time based on pharmacy fill and refill data.	
<input type="checkbox"/>	Access to any documented information from EMRs and PHRs regarding medication adherence includes rational , side effects, intolerances etc.	
<b>6. Documentation of the electronic Best Possible Medication History (eBPMH)</b>		<input type="checkbox"/>
<input type="checkbox"/>	Ability to create a eBPMH separate from the sources on which it is based	
<input type="checkbox"/>	Ability to pull medications from electronic sources into an eBPMH (with or without changes).	
<input type="checkbox"/>	Ability to add new medications into the eBPMH based on other (non-electronic) sources of information.	
<input type="checkbox"/>	Ability to update the eBPMH at any time during the hospitalization.	
<input type="checkbox"/>	Ability to document the quality of the eBPMH (from a list of choices) in the opinion of the history-taker and for that information to be clearly visible to any other provider who pulls up the medication list.	
<input type="checkbox"/>	Ability to document the sources of information used to create the eBPMH from a list of coded choices and for that information to be clearly visible to any other provider who pulls up the list.	
<input type="checkbox"/>	Ability to update the eBPMH at any time during the hospitalization.	
<input type="checkbox"/>	Audit trail to document changes to the eBPMH made during the course of hospitalization, including when and by whom (person and role).	
<b>7. Facilitation of eBPMH Sign-off</b>		<input type="checkbox"/>
<input type="checkbox"/>	Sign-off that the eBPMH is ready for comparison to the admission orders (reconciliation).	
<input type="checkbox"/>	Ability to document verification of BPMH by a second clinician	

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<b>8. Facilitation of admission orders based on the eBPMH</b>		<input type="checkbox"/>
<input type="checkbox"/>	Document the planned action on admission for each eBPMH medication: continue without changes, continue with changes, substituted for a different medication, temporarily hold, discontinue.	
<input type="checkbox"/>	Ability for continued medications to link to the admission order entry process.	
<b>9. Facilitation of reconciliation at admission</b>		<input type="checkbox"/>
<input type="checkbox"/>	Ability to compare and flag differences between eBPMH and admission orders.	
<input type="checkbox"/>	Document intentional reasons for changes from the eBPMH to admission orders.	
<input type="checkbox"/>	Modify admission orders as needed to resolve unintentional discrepancies.	
<input type="checkbox"/>	Ability to document verification of admission orders by a second clinician.	
<b>10. Facilitation of medication ordering at intra-hospital transfer</b>		<input type="checkbox"/>
<input type="checkbox"/>	Compare eBPMH to current (pre-transfer) inpatient medications (e.g., differences in medications, dose route frequency of formulation highlighted).	
<input type="checkbox"/>	The ability to order medications from eBPMH or the current pre-transfer medication list as transfer orders (with or without further modification).	
<input type="checkbox"/>	Ability to add new medications to transfer orders (i.e., not on either list)	
<b>11. Facilitation of medication reconciliation at intra-hospital transfer</b>		<input type="checkbox"/>
<input type="checkbox"/>	Compare and flag differences among eBPMH, pre-transfer medications and transfer orders.	
<input type="checkbox"/>	Document intentional reasons for changes made to transfer orders.	
<input type="checkbox"/>	Modify transfer orders as needed to resolve unintentional discrepancies.	
<input type="checkbox"/>	Ability to document verification of orders by a second clinician.	
<b>12. Facilitation of medication ordering at hospital discharge</b>		<input type="checkbox"/>
<input type="checkbox"/>	Compare eBPMH to current (pre-discharge) inpatient medications (e.g., differences in medications, dose, route, frequency of formulation highlighted).	
<input type="checkbox"/>	The ability to order medications from eBPMH or the current pre-discharge medication list as discharge orders (with or without further modification).	
<input type="checkbox"/>	Ability to add new medications to discharge orders.(i.e., not on either list)	
<input type="checkbox"/>	Ability to run decision support on entire discharge medication regimen (e.g., for duplicate therapy)	
<input type="checkbox"/>	Ability to transmit electronic prescription or print and sign prescriptions at discharge (from final verified medication orders)	

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<b>13. Tools to facilitate patient/caregiver education</b>		<input type="checkbox"/>
<input type="checkbox"/>	Ability to print a final discharge medication list in patient-friendly language that clearly indicates (with pictures if possible) the indications of each medication, time(s) of day to take it, number of pills/sprays, etc. with each administration, and common side effects to watch for.	
<input type="checkbox"/>	Ability to clearly display the differences between pre-admission and discharge medication regimens, including which medications are new, which have had changes in dose/frequency/route/formulation, which are to be continued without changes and which preadmission medications should be stopped.	
<input type="checkbox"/>	Ability to add standardized medication educational materials (e.g. 5 Questions to Ask About Your medications) and for high-alert medications (e.g. anticoagulants, insulin etc.)	
<b>14. Tools to facilitate communication with post-discharge providers</b>		<input type="checkbox"/>
<input type="checkbox"/>	Clear documentation in the discharge paperwork of the discharge medication regimen, including a clear explanation of changes compared with the preadmission medication regimen and reasons for all changes.	
<input type="checkbox"/>	Ability to transmit this information electronically to post-discharge providers (e.g., to their community pharmacy, ambulatory EMR, sub-acute facility/Long-term care facility EMR, via online portal to hospital's information systems, or through health information exchange program).	
<b>15. Tools to facilitate compliance with medication reconciliation process</b>		<input type="checkbox"/>
<input type="checkbox"/>	Ability to track timing of BPMH documentation relative to time of admission	
<input type="checkbox"/>	Provide alerts, reminders and/or hard stops if eBPMH or reconciliation has not been completed in a timely manner.	
<input type="checkbox"/>	Ability to stop the discharge process unless eBPMH has been verified and every medication in the BPMH and current inpatient regimen have been reconciled with the discharge medication regimen.	
<input type="checkbox"/>	Ability to generate real-time reports of all patients with discharge orders completed and in need of reconciliation.	
<b>16. Tools to identify high-risk patients</b>		<input type="checkbox"/>
<input type="checkbox"/>	Automatically identify and generate a report of patients at high-risk for medication problems (e.g., based on the number and/or classes of medication in the eBPMH in admission or discharge orders, and/or based on the number of changes from pre-admission to discharge medications) so that further action can be taken.	
<b>17. Facilitation of reconciliation at hospital discharge</b>		<input type="checkbox"/>
<input type="checkbox"/>	Compare and flag differences among eBPMH, pre-discharge medication list and discharge orders.	
<input type="checkbox"/>	Document reasons for intentional changes made to discharge orders (e.g., compared with the eBPMH).	
<input type="checkbox"/>	Modify discharge orders as needed to resolve unintentional discrepancies.	
<input type="checkbox"/>	Ability to document verification of discharge orders by a second clinician.	