Logo

Description automatically generated

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| **Use Case Name** | Clinical 146 – Update Patient Summary |
| **Version** | *1.6* |
| |  |  | | --- | --- | | Created By | Rick Benson | | Date Created | 15/09/2021 |   *Any changes to this document needs to be covered with an additional item in the Document Version table.*   |  |  |  |  | | --- | --- | --- | --- | | Doc Version | Date | Who | Description | | 0.1 | 15/09/2021 | Rick Benson | Draft | | 0.2 | 16/09/2021 | SN | Added linked Use Cases for reference | | 0.3 | 16/09/2021 | Rick Benson | Updated following internal review | | 0.4 | 23/09/2021 | Rick Benson | Updated following internal review | | 0.5 | 12/10/2021 | Rick Benson | Added properties table | | 0.6 | 19/10/2021 | Rick Benson | Updated Properties table | | 0.7 | 22/20/2021 | Rick Benson | Updated Properties table to include analyte logic | | 0.8 | 23/10/2021 | Rick Benson | Updated Properties table to include analyte stale logic | | 0.9 | 28/10/2021 | Rick Benson | Updated table properties | | 1.0 | 01/11/2021 | SN | Draft Prototype added for handover | | 1.1 | 02/11/2021 | Rick Benson | Update to properties table during handover | | 1.2 | 02/11/2021 | Dan Laffan | Handover details | | 1.3 | 03/11/2021 | BB | Domain Section completed with PatientSummaryRecord changes and Stale rules | | 1.4 | 05/11/2021 | Amy Mc Namara | Added link to Design Specs | | 1.5 | 12/11/2021 | Amy Mc Namara | Added Device layout demos | | 1.6 | 15/11/2021 | SN | Analytes updated, and embedded spreadsheet with suggested Axis labels |   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  *Please note that any wireframes within this document are indicative only and the final implementation may differ. Any changes that do not follow the MAXIMS standard will be documented within the minutes/notes section of the document.*  *Use cases may be superseded by others as product functionality increases. Under these circumstances, the superseded uses cases will not be updated.* | |
| **User Story / Use Case** | The patient summary view will give an overview of the patient from a clinical perspective. It Is designed to provide an overview for patient who are admitted or are In ED with a decision to admit. |
| **Linked Use Cases** |  |
| **User Information** | The Patient Summary view will be HCP specific (Nurse/Medic) |
| **Rationale** | [provide the rational for the functionality described] |
| **Where in the system are you able to perform the process** | Separate component that can be called from   * MHealth * Clinical Noting * Enterprise (Inpatient Tracker Worklist ID: 102569) |
| **Preconditions/Rules for this process** | [List any conditions or rules that will apply to this functionality] |
| **UI/UX Prototype / Design** | [Prototype Graph video](https://xd.adobe.com/view/a4ed4704-4d99-4a37-b4fd-55eda0ff68e6-f1be/)  [Patient Summary – Specs](https://zeroheight.com/0afd92ace/p/030aef-patient-summary-/b/42a8d3)  [Mobile Demo](https://imsmaxims.sharepoint.com/:v:/r/Product/Product%20Experience%20Documents/IMS%20PRODUCTS/Mhealth%20.2/05%20-%20Prototypes/U.C%20146%20Pat%20Summary/04-%20Prototyping/Mobile_%20Patient%20Summary_Demo.mp4?csf=1&web=1&e=npDdkH)  [Tablet Demo](https://imsmaxims.sharepoint.com/:v:/r/Product/Product%20Experience%20Documents/IMS%20PRODUCTS/Mhealth%20.2/05%20-%20Prototypes/U.C%20146%20Pat%20Summary/04-%20Prototyping/Tablet_%20Patient%20Summary_Demo.mp4?csf=1&web=1&e=19fvkh)  [Desktop Demo](https://imsmaxims.sharepoint.com/:v:/r/Product/Product%20Experience%20Documents/IMS%20PRODUCTS/Mhealth%20.2/05%20-%20Prototypes/U.C%20146%20Pat%20Summary/04-%20Prototyping/Desktop_%20Patient%20Summary_Demo.mp4?csf=1&web=1&e=cqqHsI) |
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| **Technical Implementation Details** | |
| **Pre-conditions** | [List any activities that must take place, or any conditions that must be true, before the use case can be started] |
| **Post-conditions** | [Describe the state of the screen, workflow etc at the conclusion of the use case execution] |
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| **Normal and Expected Flow** | |
| **Patient Summary View**  The patient summary from the Patient Bedside View will change to contain more clinically relevant data and display a count of outstanding tasks for the user's logged in discipline. There will be one view for both medics and nurses:  **Properties table**   | **Order** | **Component name (label)** | **Item** | **Data Type** | **Data source** | **Logic** | | --- | --- | --- | --- | --- | --- | | 1 | Observations | Obs score | NEWS2  PEWS | eObs | See Domain Changes below patient summary record | | End of life status | Status: Enabled or Disabled (text) | (Clinical 108)  Icon, history | N/A | | Obs next due | Date/Time | Record Obs task | See Domain Changes below for Stale Score period | | Frequency | Time in minutes or hours and minutes if ≥ 60 | Record Obs task | N/A | | Notifications | Number of eObs notification |  |  | | 2 | Reason for admission | Elective admission | Elective list details | Surgical/endoscopy: Procedure from Theatre List  Medical: Procedure from elective list | If this is an elective admission, then if a surgical or an endoscopy elective list Is associated with the admission display planned procedures from theatre appointments If not yet performed - if procedures are performed then display performed procedures  If a medical elective list, then display procedure from elective list associated with the admission.  Laterality will be displayed for any planned / performed procedures | | Emergency admission | Text (derived from configured CCI admin  Diagnoses, Presenting Complaint, Clinical Noting Problems) | Diagnosis  presenting complaint  problems | If this is an emergency admission then display the diagnoses, if no diagnoses then display any entered presenting complaints, if no presenting complaints then display any entered problems.  If this emergency admission requires procedures then display planned procedures from non-elective theatre appointments If not yet performed - if procedures are performed then display performed procedures  Laterality will be displayed for any planned / performed procedures and any diagnoses where laterality has been selected  The date/time of problems, presenting complaints and diagnoses will be the authoring date time and include the label 'Authoring date time  History of presenting complaint will also be displayed for presenting complaint where entered. The display of history of presenting complaint will be controlled at a config level  Diagnosis details will also be displayed where entered. - the display will be controlled at the configuration level. | | 3 | Pathology Results |  | Pathology results for the following analytes:   1. ABGs pH CO2 O2 2. FBC - Hb 3. FBC - WCC 4. CS - INR 5. CS- APTT 6. U&E - NA 7. U&E - K 8. U&E - Cre 9. U&E - Urea 10. U&E - eGFR 11. AKI 12. Glucose Random 13. CRP 14. Troponin I 15. Bilirubin 16. Amylase | HL7 interfaced results with reference range | Only to be displayed if order date >= (admission date - 24 hours)  There will be a configuration table to identify the analyte subset.  **Analyte result date/time**  Result date time will be the sample collection date/time  **Analyte list order:**  Order as per Data Type column  **Analyte stale logic**  Stale period will be defined at the configuration level and can be set globally i.e. 36 hours where analytes older that this time will not be displayed, or It can be set at the analyte level where each analyte can have its own stale period  **Reference Range:**  Icons to represent values in the reference ranges that are Low Low, Low, High and High High (**LL, L, H, HH**) will be displayed where these are available In the message.  **Abnormal Indicator:**  If an analyte result Is abnormal the Abnormal Indicator Icon will be displayed alongside the result  **Graphing display**:  Graphing of previous analytes will be available for the user to view. The last 20 results within the previous one month (30 days) will be available for display  If there Isn't a result in the last 24 hours then a graph of previous results will be not be displayed  **List View** Troponin I– this analyte will not show a Graph, it will only display past records in the list view  Graphing Axis suggestions are detailed in the embedded spreadsheet | | 4 | Alerts, Allergies, Risks | Alert icon | Icon with text ‘has alerts’ | Alerts set in enterprise |  | | Allergy icon | Icon with text ‘has allergies’ | Allergies set in enterprise |  | | Risks | icon | Falls risk set in whiteboard (mHealth)  Cognitive impairment set in whiteboard (mHealth) |  | | 5 | Admission / Discharge | Date of Admission | Date |  |  | | Location | Ward /Bay / Bed number |  |  | | Service | Service name | Current Service the patient is admitted under |  | | Consultant | Consultant name | Current Responsible HCP for this admission |  | | Estimated discharge date | Date | Estimated discharge date set in enterprise or mHealth |  | | Medically Fit for discharge date | Date | Medically fit for discharge date set in enterprise or mHealth |  | | Tracking and  Expected return time | Lookup  Date/time  Time | TrackingMovementType ID: 1021296 |  | | Leave type  Expected return date / time | Lookup  Date /time | LeaveType ID: 1021535 |  | | 6 | {discipline} Tasks | Outstanding tasks for the logged in discipline (Nurse/Medic) the label will be dynamic dependant on the logged in user (medic nurse) | Number of outstanding tasks  Of the Outstanding Tasks, Number of Breached & Number of Due to Breach tasks | Tasks app |  | | 7 | Hospital at night | H@N referral(s) | MHealth | Current H@N referrals for the current configured H@N shift |  | | |
| IG Considerations | [Provide relevant details if this use case has some Information Governance Considerations] |
| Design Decision | [Any specific design decisions made while working through this use case should be documented in this section] |
| Exceptions | [Describe any anticipated error(s) and/or validation conditions that could occur during execution of the use case, and define how the system is to respond to those conditions] |
| Frequency of use  and performance requirements | [How often will this Use Case be executed. Identify any performance requirements that need to be considered as part of the design and implementation] |
| Domain Changes | *The Patient Summary Record object will be expanded to hold information on the eOBS scores for a patient.*  *Fields Added – these could be created as a component business object used twice in PatientSummaryRecord.*   |  |  |  | | --- | --- | --- | | ***Field*** | ***Type*** | ***Description*** | | *Latest Score* | *Integer* | *The most recent eOBS score for*  *a patient* | | *Latest Score Datetime* | *DateTime* | *The date and time of the most*  *recent eOBS score for a patient* | | *Latest Score Context Type* | *Class Name – either ED, Admission* | *Either ED Attendance or*  *Admission – based on where*  *the eOBS was recorded* | | *Latest Score Context ID* | *Numeric* | *Will link to either the ED*  *Attendance or the Admission*  *Detail record depending on the*  *Context Type* | | *Previous Score* | *Integer* | *The score recorded prior to the*  *most recent eOBS score* | | *Previous Score Datetime* | *DateTime* | *The date and time of that eOBS*  *score* | | *Previous Score Context Type* | *Class Name – either ED, Admission* | *Either ED Attendance or*  *Admission – based on where*  *the eOBS was recorded* | | *Previous Score Context ID* | *Numeric* | *Will link to either the ED*  *Attendance of the Admission*  *Detail record depending on the*  *Context Type* |   *Rules*   1. *When a score is being recorded, the system will check if any data exists in the latest score value in Patient Summary Record and move the detail to the PreviousScore fields* 2. *When a score is being recorded, the latest score fields will be updated with the relevant detail.* 3. *On Discharge from ED – No decision to Admit, the Latest and Previous Score values will be cleared.* 4. *When reading scores, if the datetime of the score is outside of a Stale Score period and the current context type differs to that recorded, the score will not be returned.* 5. *The Stale Score period will not be taken into consideration when the Context Type and Context ID of the score and the current Context of the patient match.* 6. *When an eOBS record and score are marked as RIE – if that is either the Latest or Previous Score in the PatientSummaryRecord, they should be cleared and the correct values reinstated.* |
| Business Object / Schema Review | [Document when the business object / schema modifications were reviewed and by whom] |
| List Query Review Details | [For worklists, dashboards and reports - the SQL is extracted and reviewed - document when the queries were reviewed and by whom] |
| Suggested Form Names / Affected Forms | [For new forms, the recommended name. For existing forms, list those that are to be updated (including the DevEnv ID)]. |
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| **Notes and Comments** | |
| Notes, Comments and Decisions | [List any additional notes, comments or decisions that were made following review and/or handover that need to be catered for during development, QA and documentation production] |
| Technical Review Details | Reviewed by Barbara,Dan and Jacinta pre-handover |
| Handover Details | 02/11/2021 at 2.15pm (v1.1) - Attendees : Dan Laffan,Barbara,Des,Jacinta,Rick,Simon,Amy,Dayron Torres Reyes, Paul,Marcus,Shane,Andrei,Sean,Racher,Fearghal,Marius |
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| **Minutes following Checkpoint / Handover meetings** | |
| [Any updates following checkpoint that aid Development or QA should be dated and documented in this section. If functionality changes are required, the ‘Normal and Expected Flow’ must be updated] | |
| **Release Note** | |
| [Suitable text for use within product release notes can be saved in this section] | |
| **Clinical Safety** | |
| **Design Guidelines** | [List any design guidelines in relation to clinical safety] |
| **Testing Guidelines** | [List any testing guidelines in relation to clinical safety] |
| |  |  |  |  | | --- | --- | --- | --- | | **The assessment of clinical safety impact performed by the Clinical Safety Officer.** | | The Clinical Safety Officer has assessed this change and it has no impact on clinical safety.  The Clinical Safety Officer has assessed this change and it does impact clinical safety. | | | **Date of Clinical Safety Assessment:** | | 28/09/2021 | | | **Assessment Performed by:** | | Kish Dwivedi | | | **If this change addresses any existing**  **Safety Incidents, please provide**  **Additional details.** | |  | | | Hazard Number | Details | | Jira Link | |  |  | |  | |  |  | |  | |  |  | |  | | |
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| **Acceptance Test Case** | *{Entered by QA}* |