Employee Health Screen

Software Requirements Specification

Version 1.0

Document Sign-Off

|  |  |  |
| --- | --- | --- |
| Name | Sign | Sign-off Date |
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# Introduction

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| --- | --- |
| Product Name: | **Employee Health Screening** |
| Target Audience: | **Approximately 12,000 Employees** |
| Usage: | **Assessment once in 2 years** |

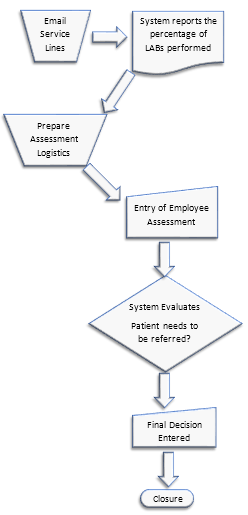
# Objective

1. Assess Employee Health Risk
2. Refer Employee to Physician if needed

# Roles

1. Employees
2. Nurses

# Workflow

1. An Email will be floated by Community Health Center (CHC) to the chosen Service Line instructing them to perform Lab Tests.
2. System Report will display the number of employees that have performed Lab Tests.
   * Exception: Employees that do not have their Medical Record numbers mapped in HIS will not be displayed.
3. When the Service Line meets the cut-off criteria, logistics will be arranged by CHC for taking the assessment.
   * Cut-off criteria would be set by CHC as a combination of a set date and the percentage of employees that have performed Lab tests.
4. At the venue, the employees will fill in their self-assessment form using their personal phones or the provided devices. (*This will engage them during waiting periods*).
   * For illiterate employees, nurse would do this on their behalf.
5. The nurse will then add anthropometric details of the employee after assessing them.
6. System will determine whether the Employee needs to be referred to physician displaying the derivations.
7. Nurse will enter the final decision and close the assessment.

# Technical Details

## Inputs

**Employee Annual screening**

**Are you done with your lab investigations (Yes/No); if yes then initiate screening if no then comment to get your lab investigations)**

Employee no: \_(free writing)\_ Name\_\_(auto)\_ MR no \_(auto)\_\_\_ age: \_(auto)\_\_Sex (auto)

**Medical History: Yes NO \*\* tick option**

|  |  |  |
| --- | --- | --- |
| High Blood Pressure |  |  |
| Heart Disease |  |  |
| Psychiatric Illness |  |  |
| Hepatitis B |  |  |
| Hepatitis C |  |  |
| Diabetes |  |  |

\*\* Every yes will be highlighted----on each yes question will be popup

Are you getting treated for this condition? Yes NO

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Additional Notes: In cases where Employee Number is not mapped with Medical Record Number, system will take both Employee Number and Medical Record Number as input.

**Employee Annual screening**

**Family History: (specific to mother, father, brother and sister)**

**Yes NO \*\*tick option**

|  |  |  |
| --- | --- | --- |
| High Blood Pressure |  |  |
| Heart Disease |  |  |
| Diabetes |  |  |

Psychosocial history (over the last 2 weeks, how often have you felt) yes NO

|  |  |  |
| --- | --- | --- |
| little interest or pleasure in doing things |  |  |
| Have you felt down , depressed or hopeless |  |  |

**\*\* tick option, if yes tick should be highlighted.**

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**Employee Annual screening**

**Smoking behaviors Yes NO \*\*yes should be highlighted**

|  |  |  |
| --- | --- | --- |
| Do you smoke (including ciggratees, e cigg, shicha etc)? |  |  |
| Do you use any smokeless tobacco (Pan, Chalia, Gutka, Gem etc.)? |  |  |
| Have you thought of quitting |  |  |

Let’s conduct your [Anthropometric measurements](https://thl.fi/publications/ehrm/product2/part_iii5.htm)

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**Employee Annual screening**

|  |  |
| --- | --- |
| Height (cm) | Free writing (60-250cm) |
| Weight (kgs) | Free writing(0-200 kg) |
| BMI | Auto calculation |
| Waist circumferences (cm) | Free writing (10-200 cm) |
| Blood pressure  (SBP)  (DBP) | Free writing Systolic(60-300)  Free writing Dystolic (18-120) |

|  |  |
| --- | --- |
| **KEY (for highlighting abnormal results)** | |
| Waist circumference | Men ≥ 90 cm; Women ≥ 80 cm |
| BMI formula | BMI = kg/m2------ ≥ 26 |
| (SBP)  (DBP) | ≥ 130  ≥ 85 |

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**Employee Annual screening**

**Lab investigations (Integration with Patient Profile Viewer)**

|  |  |
| --- | --- |
| HB: | auto |
| FBS | auto |
| LDL | auto |
| HDL | auto |
| Triglyceride | auto |
| HEP C | auto |

Referred to:

CHC  IMS  Other

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|  |  |
| --- | --- |
| **KEY (for highlighting abnormal results )** | |
| HB: | Men: less than 13.5  Women: Less than 11 |
| FBS | ≥ 100 mg/dl |
| LDL | ≥ 100 mg/dl |
| HDL | ≤ 40 for men or ≤ 50 for women |
| Triglyceride | ≥ 150 mg/dL |
| HEP C | Reactive |

**Referrals**

**Over all individual outcome (who needs referral—system would highlight when)**

**Any 2 of the following**

1. Waist circumference (men ≥ 90 cm; women ≥ 80 cm)
2. TG ≥ 150 mg/dL **or** on cholesterol medication
3. HDL ≤ 40 for men or ≤ 50 for women **or** on cholesterol medication
4. Systolic Blood Pressure ≥ 130 **or** Diastolic Blood Pressure ≥ 85 **or** on antihypertensive treatment
5. Fasting glucose ≥ 100 mg/dL **or** on diabetes medications

**Others conditions:**

1. *HEP c reactive*
2. *Individual who would like quit smoking or tobacco*
3. *Individual with highlighted HB*
4. *Individual with highlighted yes in either one question of psychosocial history*
5. *Individual with highlighted yes in history of smoking, heighted FBS or TG or LDL or SBP*

## Outputs

**Overall population outcome**

1. No. of employees screened (overall and also as per service line)
2. No. of employees identified with risk of metabolic syndrome
3. No of employee referred to physician
4. No. of employees with HEP C positive
5. No of employees with anemia
6. With positive psychosocial history
7. Lab investigations done employees