

Strategic Priority: **SPI- Medical, Research, Academic Research**

Project Name

Vital Link Solution Implementation

Site

Riyadh

Department

HITA

Project Status

Completed

Project Start Date

02-22-2017

Project End Date

10-31-2018

Problem: Why the project was needed?

This project was initiated to enhance correct patient identification, to decrease the time and mitigate risks related to wrong / duplicated entries; this is to be implemented with the introduction of barcoding and active integration of the monitor into patient medical records (ICIS).

Benefits/Impact: What is the improvement outcome? (check all that apply)

- ☐ Contained or reduced costs
- ☒ Improved productivity
- ☒ Improved work process
- ☒ Improved cycle time
- ☐ Increased customer satisfaction
- ☐ Other (please explain)

Decrease errors of documentation and save time

Aims: What will the project achieve?

To decrease total cycle time from taking vital sign until documenting it in the system from 30 minutes to 30 seconds by end of 2018 and sustain it for 1 year .

Quality Domain: Which of the domains of healthcare quality does this project support? (Select only one)

Safe

Measures: Performance metrics to be evaluated

Total cycle time from taking vital sign until documentation

Targets: Expected outcomes

30 Seconds

Interventions: Overview of key steps/work completed

- Launch solution in several units within the Hospital.
- Connect the new Vital Sign Machine to patient Chart (ICIS).
- Train each unit before each go Live event.
- Prepare and validate networks - Wi-Fi infrastructure.
- Install the required machines (Arm Band) to be scanned upon patient identification prior vitals check.

Results: Insert relevant graphs and charts to illustrate improvement pre and post project
(insert relevant graphs, data, charts, etc.)

- ❖ Efficient vitals documentations have been enhanced through integrating monitors with ICIS, about 200 hours has been saved weekly.
- ❖ Documentation errors have been decrease.
- ❖ Clinicians are enabled to view patient Data in real time basis.

The Average Total Cycle Time (TCT) Per Patient of 32 Readings (From Taking Vital Sign until Documentation) Before PI Project

Time study	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Time vital signs displayed on	12:00	4:00	8:00	13:00	17:00	20:00	0:00	4:00	9:00	10:00	0:00	4:00	8:00	12:00	16:00	21:00
Time to transcribe vitals into	0:25	4:56	9:29	15:23	18:10	22:12	0:36	5:04	9:47	10:49	1:37	5:42	11:08	15:49	18:17	21:15

Time study	17	#	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Time vital signs displayed on	12:00	4:00	8:00	12:00	0:00	4:00	8:00	12:00	16:00	20:00	0:00	4:00	8:00	4:00	7:40	14:00
Time to transcribe vitals into	0:16	4:30	8:16	13:04	0:32	5:32	8:19	13:36	16:15	21:51	4:54	4:55	9:11	5:23	9:14	15:39

Comparing The Average Total Cycle Time (TCT) Per Patient (From Taking Vital Sign Until Documentation) Before & After PI Project

TCT Before Implementing Vital Link (Before PI Project)	30 minutes
TCT After Implementing Vital Link (After PI Project)	30 second

Project Lead

Name

(person accountable for project)

Rawad Hassirah

Team Members

Names

(persons involved in project)

Mamdouh AlBalawai

Talal AlKhateeb

Syed Ali

Zyad AlZafer

Hasan AlZayed

Zeid AlYami

Manlangit, Neil

Mohammed Alhajjy – Benefits Realizations Coordinator