

CENTRO DI RIFERIMENTO ONCOLOGICO

CRO - IRCCS



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THE PROBLEM

By monitoring the

vóluntary incident

reporting, we found only

few reports, with a small

misses. As nonconformity

can lead up to a patient

adverse events, the aim

reporting) monitor and

was to find an IR (incident

analysis tool, linked to the

software used to manage

nonconformities, in order

to increase effectiveness

and efficiency.

INTERVENTION

nonconformities,

In the Divisions the

corrective and preventive

through a specific setting

of a third party commercial

BPM framework, based on

process management. The

actions, are managed

intervention started by

implementing the BPM

specific process template

framework with a new

objective. The new IR

Step1: A user starts a

process runs as follows:

specific process instance

titled 'IR'Alert', by filling a

specific electronic form

the IR process can be

notification system) or

nonconformity analysis.

form, while their access

Step 2: An automatically

alert, sent by the BPM

framework, notifies the

Department Risk Manager

to start analysis, tasks and

verifications to solve the

Step 3: Hospital Risk

alerted by the BPM

possible systemic

Manager, automatically

framework, can supervise

and monitor (real-time) all

the above process steps.

Risk management board

periodically analyses the

corrective action, which

Manager. If necessary, he

preventive action, through

can start a corrective or

a new specific process

configured templates).

In all the above steps,

form data, user data,

analysis data, timing,

analysis purpose.

linked to the BPM

extract the required

process to other

by "cloning" the IR

contacts for the

process template and

Department Managers.

costs and actions data are

recorded and stored in the

BPM framework database

for real-time reporting and

Processes are dynamically

document management

system, to automatically

documentations from a

Implementation of the IR

Department, at the end of

updating only the referring

pilot phase, will be made

documental database.

instance (based on pre-

will be assigned to the

Department Quality

'IR events' to evaluate any

specific IR event.

The electronic form fields

are equivalent than paper

RDC⁽¹⁾ (generic

are role based.

with few mandatory key

informations. Alternatively

started by the Department

Quality Manager based on

tailored to the new

amount (10%) of near



Department B

Department A

CONTEXT

The Radiation Oncology Department of C.R.O. Institute has been certified ISO 9001:2008 since 2003. The operators report nonconformities through a generic notification system called "RDC" report. Department Quality Manager collects and analyzes the nonconformities in order to carry out improvement actions. Our clinical risk management program includes a voluntary incident reporting system. Two Divisions of the Department have been involved in the pilot phase, one of these is located onto two sites, about 15 km apart.

CHANGE STRATEGY

The first step was to involve the Institute leadership for strategy definition and to support the reporting culture. The second step was to disseminate the information to quality and risk managers of the Division, through training events. In 2012 the pilot program was lunched in two Divisions. In the 2013, the program will be extended to all the Institute Departments

MEASUREMENT AND EFFECTS

We counted the number of incidents reported and measured the analyzing time, compared with the same period in 2011 and 2012.

Collected data shown that:

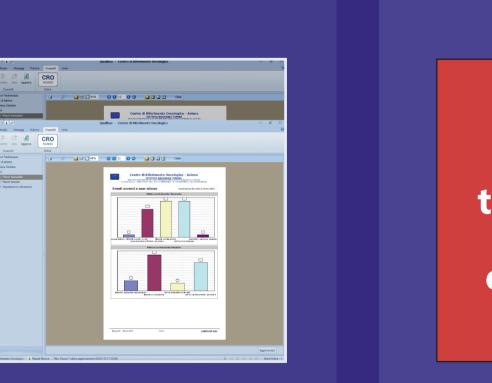
- -The number of incidents reported has increased (+250%).
- -The percentage of analyzed incident reporting has increased (+170%).
- -The overall time needed to analyze reporting and plan improvement actions has decreased.
- -In terms of patient safety we generally obtained more information on adverse events and spent less time to promote changes and improve quality.

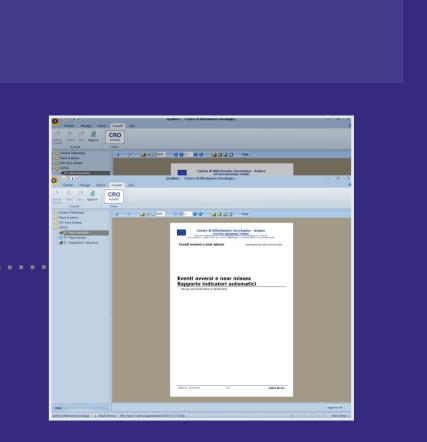
LESSONS LEARNT

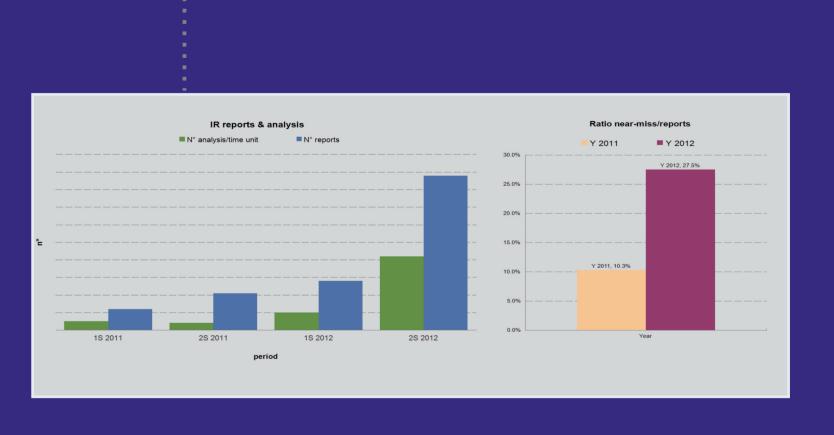
The Kaizen approach (little and continuous improvement steps) is particularly useful when an organizational and cultural change is planned. Integration of the quality and risk management, with tool sharing, increases the effectiveness of the system. The use of a BPM framework (integrated with custom solutions), wich drives the organization to a paperless system, with an unified dashboard of real-time indicators, increases its efficiency. In the next program phase we plan to spread more incisively the change culture



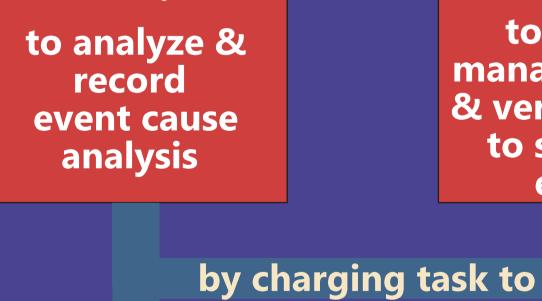
to monitor to of actions Dep. Risk and Manager timing



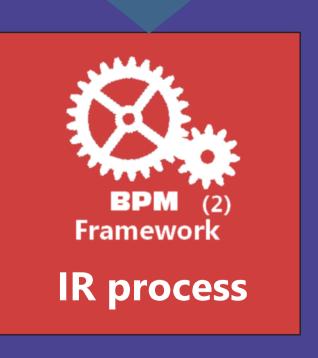




to analyze & record event cause analysis







electronic checklist

to define,

manage, record

& verify actions

to solve the

event

7 \$ 0 0 Oppon Fibr Dubble 1 Dubble 1 Oppon Fibr Dubble 1

who is in charge

task Note di chiusura

TOOLS & MATERIALS

analyze

real time

reports and

alerts

to

define

systemic

actions

by

As BPM framework we use QUALIBUSTM V. 8.3 software (Nord Est Systems Srl - Italy). The RDC notification form/web-apps is an in-house solution developed on ADOBE® COLDFUSION® 8 application server (Adobe Systems Incorporated - USA)

1) A generic criticality survey & notification system. 2) Business process management framework. 3) Nonconformity process managed by BPM framework. 4) CA: corrective action process managed by BPM framework.

