

# HIV testing training for non-HIV-specialists in a tertiary hospital: change in attitudes and rates of HIV screening





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#### **BACKGROUND**

- Many HIV infected patients remain undiagnosed.
- National and international HIV testing guidelines are poorly known by non-HIV specialists.
- Awareness is essential to improve HIV screening.

## **OBJECTIVES**

- Impact of a training session on HIV screening in:
- 1. Attitudes and knowledge towards screening.
- 2. Number of serologies ordered, positive and active infections.

#### **METHODS**

#### **POPULATION**

Prescribers of 31 departments: 17 medical departments (med) 14 surgical departments (surg)

#### **DESIGN AND VARIABLES**

# Pre and post training, by department:

- Absolute number of HIV tests.
- Screening rate by 1000 attended patients.
- New HIV diagnoses.

#### INTERVENTION

- 1 hour Training session by HIV and HCV/HBV specialists.
- Between March and November 2019.
- Pre and post training questionnaires.

#### **OUTCOMES**

Paired analysis of:

- Questionnaire results
- Rate of HIV tests ordered.
- New diagnosis of active infection

#### **COLLECTED DATA**

- Number of HIV serologies.
- Number of positive serologies.
- Number of active HIV infections.
- Number of patients attended per department.

# **RESULTS**

# Pre-training questionnaire:

- Knowledge of guidelines: 20% (28% med vs. 8% surg, p<0.001.
- When do you order HCV tests?:

5% routinely, 60% if risk factors,

HIV tests/10<sup>3</sup>

35% never.

#### **Post-training questionnaire:**

- 98% considered the training useful.
- -1 up to 22% showed positive attitude towards routine screening.
- down to 2% will never order screening HCV tests.

1 570	998 patients
911 688 med	659 310 surg
11788	3 Ordered
	<u> Tests</u>
Pre-training	Post-training
5257 ordered tests	6531 ordered tests
(6.7 per 10 <sup>3</sup> *)	** (8.3 per 10 <sup>3</sup> *)
25 positive	37 positive
25 positive	37 positive
Med.: 2757 ord. tests Surg.: 2500 ord. tests	Med.: 3281 Surg.: 3250 ord. tests

- \*\* p = <0.001 (global); p= <0.001 (med); p = <0.001 (surg)
  - \* Rate per 10<sup>3</sup> attended patients

	attended patients		·	Diagnoses/10 <sup>5</sup> attended patients		
	Before- Training	After- Training		Before- Training	After- Training	
Med & Surg	6.7	8.3	<0.001	3.2	4.7	0.13
All Med	6.0	7.1	<0.001	4.2	7.0	0.07
Emergency Room	5.2	6.6	<0.001	7.8	17.8	0.16
Gastroenterology	7.6	9.3	<0.001	1.9	1.9	1
Endocrinology	7.3	9.6	<0.001	10.2	17.09	0.48
ICU	54.3	135.8	<0.001	0	0	-
Preventive Health	28.1	65.9	<0.001	84.0	294.1	0.09
Nephrology	25.4	31.6	<0.001	10.7	37.5	0.09
All Surg	7.5	8.7	<0.001	1.8	1.5	0.76
Gynecology	45.2	62.1	<0.001	2.4	1.2	0.31

- 24% increase in HIV tests requested after the training (p<0.001).
  - Significant in Medical and Surgical Departments (mainly gynecology).
- 48% increase of HIV diagnosis after the training (p=0.128).
  - Significant only in Medical Departments (p=0.07).
  - Greatest increase in Preventive Health and Nephrology

### CONCLUSIONS

- Non-HIV-specialists reported poor knowledge of HIV screening, being worse in surgical departments.
- Directed training was considered useful and significantly improved some attitudes towards HIV testing.
- We observed an increase in HIV testing coverage and its effectiveness, with marked differences between departments.