

EONS Cancer Nursing Index 2020©

National profile: Turkey

Introduction

In the [RECaN project](#) EONS highlighted important differences in cancer nursing across Europe. The EONS Cancer Nursing Index 2020 (ECNI) was developed by the [EONS Advocacy Working Group](#) to illustrate the development and status of this profession in Europe. The index (with scores from 0-100) includes 22 items covering the following dimensions: Education and Career Development, Patient and Occupational Safety, Recognition, Working Conditions and Impact and Workforce statistics.

The Index is based on data from the following sources:

1. EONS Survey on Patient and Occupational Safety (anonymous survey, available in 9 languages) which at the time of this analysis, included over 650 responses from cancer nurses in 38 countries)
2. Interviews with leading cancer nursing experts. Nurses from 38 of 42 invited countries participated
3. Work force statistics (obtained from ec.europe.eu/Eurostat and OECD)

A scoring system was developed by the EONS Advocacy Working Group to reflect the level of development for the different Index dimensions/items. For items with a variety of responses from the same country, the most frequently reported response was used. The purpose of the Index is primarily not to rank some countries as better than others, moreover to illustrate cancer nursing profiles, differences and areas in need of development. The Index could be used to aid the development of cancer nursing in each country as well as for general European progress.

Dimension/item	Maximum score	Mean score (min-max)	Turkey	Comment
Overall score	100	48 (16 -78)	50	
Education and career development (5 items presented below)	23	9 (0-18)	13	
Specialist education on university level	5		5	
EONS Framework recognized/supported by Ministry of Education/Health	5		0	
Master programs in cancer nursing	4		4	
Advanced cancer nursing roles established	4		0	'Not established' To obtain the highest score (4) for this item, advanced cancer nursing roles need to be fully implemented and recognized at a national level.
Professors in cancer nursing	4		4	
Patient and occupational safety (8 items presented below)	36	18 (3-36)	14	
Safety guidelines (cytotoxic drugs) available	5		0	To obtain the highest score (5) for this item, the responding nurses should have reported that guidelines are in place at all workplaces.
Guidelines during pregnancy (cytotoxic drugs)	5		0	To obtain the highest score (5) for this item, the responding nurses should have reported that guidelines are in place at all workplaces.
Pregnant and /or breastfeeding women assigned other tasks that don't involve direct contact with cytotoxic/radioactive drugs	5		2	'Sometimes' To obtain the highest scores (5) for this item pregnant/breast feeding women should be forbidden to perform task with risks for exposure to

				cytotoxic/radioactive drugs at all workplaces.
Systematic testing for occupational exposure (surface swipes)	3		0	Surface swipes were not reported by the Turkish nurses. To receive highest possible scores (3) for this item, testing should be systematically implemented at all workplaces.
Speak-up or whistle blower policy implemented for all members of staff	3		2	'Some centers have' To obtain the highest score (3) for this item, all nurses should have reported that policies were in place.
Access to cytotoxic spillage kit and PPE	5		5	
Formal training before administering cytotoxic drugs	5		0	To obtain the highest score (5) for this item, formal education should be obligatory before managing cytotoxic drugs at all workplaces.
Nurses not preparing cytotoxic drugs	5		5	
Working conditions and the Impact on cancer care (4 items presented below)	20	15 (3-19)	15	
Level of adherence to European Working Time Directive (EWTD)	5		4	
Risk of negative consequences if asking for alternative duties pregnancy/breast feeding	5		2	
To what extent hospital beds are closed due to cancer nursing shortages	5		5	
To what extent cancer treatment delayed due to cancer nursing	5		4	'It happens very rarely' To obtain the highest score (5) for this item, the responding nurses should have reported that it never happens.
Recognition (4 items presented below)	18	8 (0-15)	8	
Does the country have a cancer nursing society?	5		5	
Does the country have a national cancer plan that includes nursing care?	3		3	
Does cancer centers in the country have Board positions dedicated for cancer nursing?	5		0	
To what extent is nurse-led cancer care implemented in the country?	5		0	'Not established' To obtain the highest score (5) for this item, nurse-led care should be fully implemented and recognized at a national level
Work force statistics (1 item)	3	1 (0-3)	0	
Number of practicing nurses/1000 citizens (www.europe.eu/Eurostat and OECD)	3		0	To obtain the highest score (3) Turkey should have >8 practicing nurses/1000 habitants.

Strengths and recommendations for improvements

The total score for Turkey (score 50) were just above total mean score (score 48) in the ECNI 2020. Turkey had the same total score as Estonia. Other countries with similar total scores were Bulgaria and Malta (both with total score 48), Greece (total score 49) and Portugal (total score 52).

Turkey could improve their scores in all five dimensions for the next revision of the ECNI in 2022. Patient and occupational safety could improve if both general guidelines for handling cytotoxic drugs and specific guidelines for reducing the risks of exposure during planned/pregnancy/breast feeding were implemented, if formal training before handling cytotoxic drugs and systematic swipe testing for occupational exposure were implemented. It should

be noted that some Turkish cancer nurses reported risks for negative consequences if asking for alternative duties (to reduce occupational exposure for cytotoxic drugs) during pregnancy/breast feeding.

Turkey could also improve their scores if advanced cancer nursing roles and nurse-led cancer care were fully implemented and recognized on a national level.

Turkey has lower number of practicing nurses compared with most countries in the ECNI. Despite this, cancer nurses in Turkey report that hospital beds never close or that cancer treatments rarely are delayed due to nursing shortage.

Finally, if Turkey's Minister of Health/Education would support EONS Cancer Nursing Education Framework and if the number of practicing nurses increased, the scores would also be higher.

EONS Advocacy Working Group, October 2020