S6. Questionnaire International Data Collection



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A competency profile for professionals involved in infectious disease control at designated airports.

Introduction

You recently received an invitation to participate in this study. We developed a competency profile for the interdisciplinary group of airport professionals at one major airport, and now aim to internationally validate this profile among international professionals. This study is conducted by the National Insitute for Public Health and the Environment (RIMV) and is part of a PhD trajectory on strenghtening the preparation and response capacity at ports, airports and ground-crossings (points-of-entry (POE)).

Background

Infectious diseases are able to spread globally through air travel. Although events might occur irregularly, regular training or exercising these scenarios is a good way to remain prepared. To design effective training or exercises, it is important to know what professionals at airports actually have to know and do; it is important to know which competencies are required. Although general competency profiles in infectious disease control exist, there is no competency profile available which is tailored to the specific airport tasks and settings.

Why do you receive this questionnaire?

Your expertise as a professional at one of Europe's major airports is mostly wanted to develop a practical and useful profile. We ask you to rate the relevance of the competencies in this questionnaire and provide feedback on formulations or additional competencies. When filling in the questionnaire, it is important that you keep in mind that these competencies need to apply specifically to airports. Therefore, we ask you to:

- · Assess competencies on relevancy for infectious disease control at airports.
- Provide feedback on formulations or additional competencies using the attached guide on how to formulate competencies. We
 recommend that you print this quide out and keep it next to you while filling in the questionnaire.

Structure of the competency profile

The profile with a total of 60 competencies consists out of three processes: (**Preparedness**), (**Response**) and (**Recovery**) with associated tasks. These tasks are subcategorized in: Medical / Public health - specific knowledge and skills, Organization / Policy development / Roles and responsibilities and Science.

Competenties regarding Communication, Collaboration en Professionalism apply to all processes.

Completing the questionnaire takes approximately 20 to 30 minutes.

Consensus meeting

Competencies which are scored alternately relevant will be discussed during a 2-hour meeting where participants of the questionnaire will be present. This will take place during the trainer-of-trainer meeting in Belgrade, Serbia, between 18-20 September 2019. You will receive an official invitation for and additional information about this meeting soon. Furthermore, you will receive and personal feedback report in advance of the consensus meeting. In this report, you will find the results of the questionnaire by means of both your own answers next to the average score of the group.

Do you have questions about the questionnaire or this study?

If you have any problems or questions, please do not hesitate to contact us via

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Before, during and after the study, your personal data will be handled carefully and confidentially. The results of this study will be published in general terms and will never be reducible to an individual. Participation in this study is voluntary and withdrawal from the study is possible at any time.

By clicking on the icon below you agree to the collection and use of some personal data.

This concerns data such as your gender, profession, and the number of years working in your current profession.

This information is stored for 15 years, but are only accessible to the involved RIVM scientists.

You can read more about this in the RIVM privacy statement: https://www.rivm.nl/sites/default/files/2018-

11/RIVM%20privacyverklaring%20mei%202018%20definitief%20Engels.pdf

O Yes, I agree

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Guidance on how to formulate competencies

Before you start with the questionnaire, we will give you a brief instruction on how to formulate competencies. Competencies have two or three parts;

- 1. A verb to specify the cognitive level at which you expect the professionals to perform
- 2. The obj professionals' knowledge, skill. attitude relates to

Recommended:

3. An adverb to define the quality of the action

Examples

- of events among travellers.
- Rapidly facilitate the interest
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The questionnaire starts on the next page. Try to fill in the questionnaire as completely as possible.

We kindly ask you to complete the questionnaire before the 4st of September.

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Demographic questions
I'm a O Man O Woman
What is your current profession in relation to infectious disease control at the airport?
How many years are you working in your current profession?
Which of the following partners do you collaborate with the most? Public health authority Airport Medical Services Airlines Other, namely;
To what extent do you feel experienced with infectious disease control at airports? 1 (very inexperienced) 2 (inexperienced) 3 (neither experienced/inexperienced) 4 (experienced) 5 (very experienced)
Please, enter the e-mail address through which we invited you below.
If you prefer to receive the personal feedback report through another e-mail address, please enter it below.
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You have just answered the demographic questions. The questionnaire now continues with general competencies regarding Communication (n=2), Collaboration (n=3) & Professionalism (n=2).

Competencies might feel quite theoretic. For your own convenience, we suggest that you imagine a case of an infectious disease event that could happen at your airport while you rate the competencies.

* = Input is required

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Rijksinstituut voor Volksgezondheid en Milieu Ministerie van Volksgezondheid, Welzijn en Sport

Progress bar To what extent do you consider this competency as a relevant element for infectious disease control at airports? On a 9-point Understand and implement the basic principles of risk communication to airport and airline staff, travellers, the public and media. 2 5 6 7 1 0 0 0 0 0 0 If needed, please reformulate this competency Establish trust with healthcare providers through rapid communication channels and ongoing two-way communication. 3 4 5 6 7 0 0 0 0 0 0 0 0 If needed, please reformulate this competency

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Professionalism										
Minimize crewmembers', ground staff', and passengers ' any discomfort or distress associated with public health measures.										
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of the GDPR, or other specific knowledge, skills or attitudes towards professionalism? Please, write down your suggestions below.										
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Preparedness

 $You \ have just assessed \ the \ general \ competencies \ regarding \ Communication, \ Collaboration \ and \ Professionalism.$

The questionnaire now continues with tasks that specifically belong to **Preparedness**. These are: **Training** (n=3), **Contingency planning** (n=9) and **Surveillance** (n=7)

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Training										
To what extent do you consider this competency as a relevant element for infectious disease control at airports? On a 9-point Likert scale (1=totally irrelevant, 9 =totally relevant)										
			LINGIL	scale (1-totally	inelevant, 5 -	-totally relevan	·,			
Medical / Public Health - specific knowledge and skills										
Provide training, include healthcare providers in training and exercise on required communication skills.										
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ideni	ury training r	ieeds, piannin	g and organizi	ing courses.						
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Perio	dically pract	ice and test th	ne ability to ma	ke decisions u	nder uncertai	nty				
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				Contin	gency planning	3							
To wh	To what extent do you consider this competency as a relevant element for infectious disease control at airports? On a 9-point Likert scale (1= totally relevant, 9=totally relevant)												
Medical / Public Health specific knowledge and skills													
	Be familiar with job-related standards and recommended practices concerning infectious disease control from national and international aviation organizations (IATA, ICAO and CAPSCA).												
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	-	if the imple	mentation of st	rategies, stan	dard operation	g procedures	(SOPs) and ac	tion plans req	uires any				
chang	es.												
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If neede	ed, please reform	ulate this comp	etency										
	Before the response operation, identify which triggers will require key decisions during outbreak response (keeping in mind that triggers may need modification to fit specific situations).												
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If needed	, please reformula	te this competenc	у						
Before t	the response o	operation, plar	n for the storag	e and stockpil	ing of medical	and non-medi	ical counterme	asures.	
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If needed	, please reformula	te this competenc	у						

Organization / Policy Development / Roles and Responsibilities										
Unde	rstand the lo	cal and logist	ical structure o	of the airport a	nd the internat	tional context	of airports and	their functioni	ng.	
	1	2	3	4			5			
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If need	led, please refor	mulate this compe	etency							
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	ify key partn nation needs		op a common i	understanding	of roles, resou	urces, planning	gassumptions	, risks/vulneral	oilities and	
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Supp	ort the build	ng of core cap	pacities at the	airport and un	derstand the i	mportance of	supporting cor	e capacity bui	lding.	
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Devel	on test and	evaluate a Pu	hlic Health Em	ergency Cont	ingency Plan (PHECP) on a p	eriodical basi			
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			ine staff with o		arding emergii	ng infections f	rom abroad, es	specially those	that may be	
ourrio	a by travelle	io and ano oo	orony contagn							
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			cies on contin Please, write			or example sp	ecific knowled	ge, skills or att	titudes	
towar	as continge	ncy planning:	i icase, wiile	down your su	aneauous neic	/¥¥.				

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				Pr	ogress bar							
	Surveillance											
To w	hat extent o	do you conside	er this compete	ncy as a relev	ant element fo	r infectious di	sease control	at airports? Or	a 9-point			
	Likert scale (1=totally irrelevant, 9 =totally relevant)											
Medical / Public Health specific knowledge and skills												
Recog	Recognize a potentially infectious disease by key symptoms and signs of events among travellers.											
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Under	rstand the r	elevance of ear	rly detection of	f public health	threats.							
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Unde	rstand the	components of	surveillance s	ystems and ho	ow these work.							
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Interr	oret informa	ition from exist	ting surveilland	e in order to o	:haracterize aff	ected populat	ion groups, an	d to monitor di	sease trends			
		f control strate				ooton popular	g ap -, a					
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Use e	event-based	and indicator-	based surveilla	ance systems	to detect healt	h threats.						
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					es and Respons			
Understand the	roles and respo	nsibilities of I	ocal, national a	and internation	onal organizatio	ns involved in	infectious dise	ase control.
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If needed, please re	formulate this compe	tency						
Re familiar with	laws on surveill	ance and ren	orting of infect	ious disease	e at national El	l level and alob	ally (Internatio	nal Health
Regulations)	iaws on survein	ance and rep	ording or innect	ious uiscasc	s at HadioHai, Et	rever and gior	Jany (internation	mai ricalui
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_	s any competen			der for exam	ole specific kno	wledge, skills o	or attitudes tov	vards
surveillance? P	lease, write dow	n your sugge	tions below.					
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			P	rogress bar				
				Response				
	You have jus	st assessed the	e tasks with ass	osicated com	petencies belong	ging to Prepare	dness.	
	The q	uestionnaire n	ow continues w	ith tasks that	specifically belor	ng to Response).	
These are: Risk	assessment (n		investigations	(n=8), Mana				ublic health
			m	easures (9).				
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					assessment							
	To what e	xtent do you c	onsider this co			nent for infecti	ous disease co	ontrol at airpor	ts?			
			On a 9-point l	ikert scale (1=	totally irreleva	int, 9=totally re	elevant)					
			Madical	/ Public Health	a aposifia knou	dodgo and akil	lo.					
Medical / Public Health specific knowledge and skills Understand risk analysis frameworks, with the elements of risk assessment, risk management and risk communication.												
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Determine when a risk assessment should be carried out and appropriate measures should be taken.												
Determine when a risk assessment should be carried out and appropriate measures should be taken.												
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Perfo	rm a risk ass	sessment and	continuously	review the risk	c assessment a	as further info	mation becom	es available.				
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lf need	ed, please refor	mulate this compe	etency									
Interp	ret the diag	nostic and epi	demiological s	ignificance of	reports form I	aboratory test	s.					
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If need	ed, please refor	mulate this compe	etency									
Integi	rate and inte	rpret informati	ion from a vari	ety of local, n	ational, and in	ternational sou	ırces regardin	g contaminant	s in air, soil			
	vater.			,	-		- '		,			
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		Organiza	tion / Policy Deve	elopment /	Roles and Res	ponsibilities				
Collect an	d integrate the fa	acts of an even	t, based on inforn	mation fron	n multiple sour	ces including	the traveller, t	he aircraft		
operator,	ground-based m	edical services	for aircraft in flig	jht (when a	available) or the	agent respoi	nsible for the b	aggage or cargo.		
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If needed, ple	ease reformulate this	competency								
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Know whe	en case reports o	r clusters requ	ire further investi	igation, an	d how to initiat	e such invest	igations.			
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Use reliable systems for disseminating case definitions to standardize both the diagnosis and the reporting of case numbers (e.g. confirmed, suspected, probable, or possible cases).											
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If needed, please	reformulate this	competency									
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		Organiz	ation / Polic	y Developme	nt / Roles and	l Responsibili	ities				
Identify who is level health au		le at the nation	al level for r	eceiving the i	information o	n the investig	ation from th	e local or inte	rmediate		
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If needed, please	reformulate this	s competency									
				Scier	ice						
-	Maintain up-to-date and job-specific knowledge about characteristics of infectious diseases such as reservoir, potential sources, modes of transmission, risk groups and duration.										
	1	2	3	4	5	6	7	8	9		
*	0	0	0	0	0	0	0	0	0		
If needed, please	reformulate this	s competency									

	Be able to contact professionals that have the biological, clinical, and epidemiological knowledge needed to characterize (potentially novel) pathogens and other agents responsible for an outbreak disease.								
	1	2	3	4	5	6	7	8	9
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If needed, plea	se reformulate this	competency							
		' '							
Use evidend	ce based meth	ods to identif	y, and recom	mend control	and prevent	ive measures	to control a	n outbreak.	
	1	2	3	4	5	6	7	8	9
*	0	0	0	0	0	0	0	0	0
If needed, plea	se reformulate this	competency							
Do you still miss any competencies on outbreak investigations? Consider for example specific knowledge, skills and attitudes towards outbreak investigations? Please, write down your suggestions below. * = Input is required ** Back Next >> Store entries, finish later Rijksinstituut voor Volksgezondheid en Milieu Ministerie van Volksgezondheid, Welzijn en Sport									
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Prepare disembarking travellers with information on precautions to take in the event of illness, information sources for any updates on the event and public health authority (PHA) contact information for subsequent enquiries.									
	1	2	3	4	5	6	7	8	9
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If neede	ed, please reform	nulate this compe	etency						
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			Organization .	/ Policy Develo	opment / Roles	and Responsi	bilities		
	le advice cor ngers.	ncerning the a	appropriate pa	rking stand fo	r an incoming	affected aircra	ft and the orde	er of disembark	cation of
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If neede		nulate this compe		_	_	-	_	-	-
	., F30 10:0111	2.10 001/1 00							
Provid	le advice cor	ncerning effic	ient port healt	h staff in orde	r to reduce the	time that trave	ellers spend o	n a board-affec	ted aircraft,
		_	•			arriving travel			· ·
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If neede	d, please reforn	nulate this compe	etency						
		a travellers's ous disease.	possible trans	fer to a medic	al facility by a	mbulance and	facilitate the r	apid transport	of suspected
ouooo	or arr innoca	ouo uioouoo.							
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If neede	ed, please reform	nulate this compe	etency						
Do you	ı still miss a	ny competen	cies on manag	ement of ill / e	xposed travell	ers? Consider	for example s	pecific knowle	dge, skills or
_			_			vn your sugges			
* = Inpu	ut is required								
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	Public health measures								
To w	hat extent do	you conside	er this compete Likert s		ant element fo irrelevant, 9 =			at airports? Or	a 9-point
			Medical	Public Health	specific knov	vledge and ski	lls		
	Recognize when it is necessary to wear Personal Protective Equipment (PPE), which PPE is required, where the equipment is stored and how the PPE is donned or doffed.								
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If neede	ed, please reforr	nulate this compe	etency						
			ate public heal				uarantine, trea	tment and isol	ation, that
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If neede	ed, please reforr	nulate this compe	etency						
Relate	e information	regarding m	edical clearand	e for traveller	s with health c	onditions that	may affect the	ir suitability fo	r air travel.
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If neede	ed, please reform	nulate this comp	etency						
			,						
Provid quard		on regarding v	vaccination or	other prophyla	axis after the a	agreement of t	he traveller or l	his/her parents	or
	1	2	3	4	5	6	7	8	9
*	0	0	0	0	0	0	0	0	0
If neede	ed, please reforr	nulate this comp	etency						
		on the results ne airport are	s of the inspect required.	tion. if further	disinfection, d	econtaminatio	n, disinsection	or derating m	easures of
	1	2	2	Λ	5	e	7	Q	0
*	1	2	3	4	5	6	0	8	9
		0	0	0	J	0	J	O	O

	Recognize when to implement special handling of baggage or cargo from affected regions, including inspection, fumigation, and other decontamination of possibly destruction.									
othe	er decontamii	nation of poss	ibly destructio	n.						
	1	2	3	4	5	6	7	8	9	
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11 1160	eded, piedse reid	initiate this comp	etericy							
			Organization	/ Policy Develo	onment / Poles	and Pasnons	ihilities			
Asse	ess whether t	he costs of the		measures and				e risk		
7,000	oo whomer c	110 00010 01 111	public ficular	mododioo diio	r rosulting nut	maco aro prop	ortionate to th	o Hok.		
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Prep	are relevant a	airport and air	line staff with i	nformation reg	garding the pu	blic health eve	ent to protect t	hemselves and	healthy	
trave	ellers as requ	ired.								
	4	0	0	4	F	0	7	0	0	
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					Caiamaa					
Arro	ngo the use o	f nublic boots	· magaziraa bir		Science	ort mublic bools	h eninione to	avaid contradi	nton, or	
	_	rictions of ind		scientific evid	ence and expe	ert public fleati	in opinions to	avoid contradi	ctory or	
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						for example s	pecific knowle	dge, skills and	attitudes	
towa	rds public he	ealth measures	s? Please, writ	e down your s	uggestions.					



Recovery

You have just assessed the tasks with associated competencies beloging to Response.

The questionnaire now ends with a task that specifically belong to **Recovery**.

That is: **Evaluation and recovery** (n=4).

* = Input is required

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Evaluation and recovery

To what extent do you consider this competency as a relevant element for infectious disease control at airports? On a 9-point Likert scale (1=totally irrelevant, 9 =totally relevant)

Medical / Public Health specific knowledge and skills Clearly define goals and objectives of the evaluation. 3 2 4 5 6 7 8 9 0 0 0 0 0 0 0 0 0 If needed, please reformulate this competency

Develo conclu	•	evaluation of t	the response a	nd share with	all stakeholde	rs, when the p	ublic health is	under control	or
	1	2	3	4	5	6	7	8	9
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If neede	ed, please refo	rmulate this compe	etency						

	Organization / Policy Development / Roles and Responsibilities								
Deactivate the plan and return to recovery once the situation is under control or able to be de-escalated.									
	1	2	3	4	5	6	7	8	9
*	0	0	0	0	0	0	0	0	0
If neede	ed, please reformu	ulate this compe	etency						
Updat	e plans accor	ding the key	lessons learn	t after a forma	ıl review.				
	1	2	3	4	5	6	7	8	9
*	0	0	0	0	0	0	0	0	0
If neede	ed, please reformu	ulate this compe	etency						
The amount of competencies for recovery is relatively small compared to preparedness and response. Less has been described about recovery in the literature. Are there any competencies that you are missing here regarding recovery? Think of aspects such as communication, collaboration, professionalism, public health / medical knowledge, organization and science. Please, write down your suggestions below.									
* = Inp	ut is required								
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Final questions Now that you have assessed the competency profile, do you consider this profile as a reflection of your knowledge, skills and attitudes regarding infectious disease control at the airport? Yes Partially No If you answered 'partially' or 'no', which competencies are you missing in this profile? If possible, please formulate competencies using the guidance in the attachments. If you imagined any infectious disease event during this questionnaire, which specific event(s) did you use? *= Input is required *Elack Next >> Store entries, finish later



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Thank you for filling in the questionnaire.

Don't forget to click on the 'send' bottom below.

You will receive your personal feedback report between 11 and 17 September.

Yours sincerely,

On behalf of the research team,

Prof. Dr. Aura Timen, MD
Drs. Doret de Rooij, MD
Rebekka Rebel

* = Input is required

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