



iGuide – erfarenheter och resultat inom RJL

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Background

2013/59/Euratom

Art 58 c

Member States shall ensure that referral guidelines for medical imaging, taking into account the radiation doses, are available to the referrers

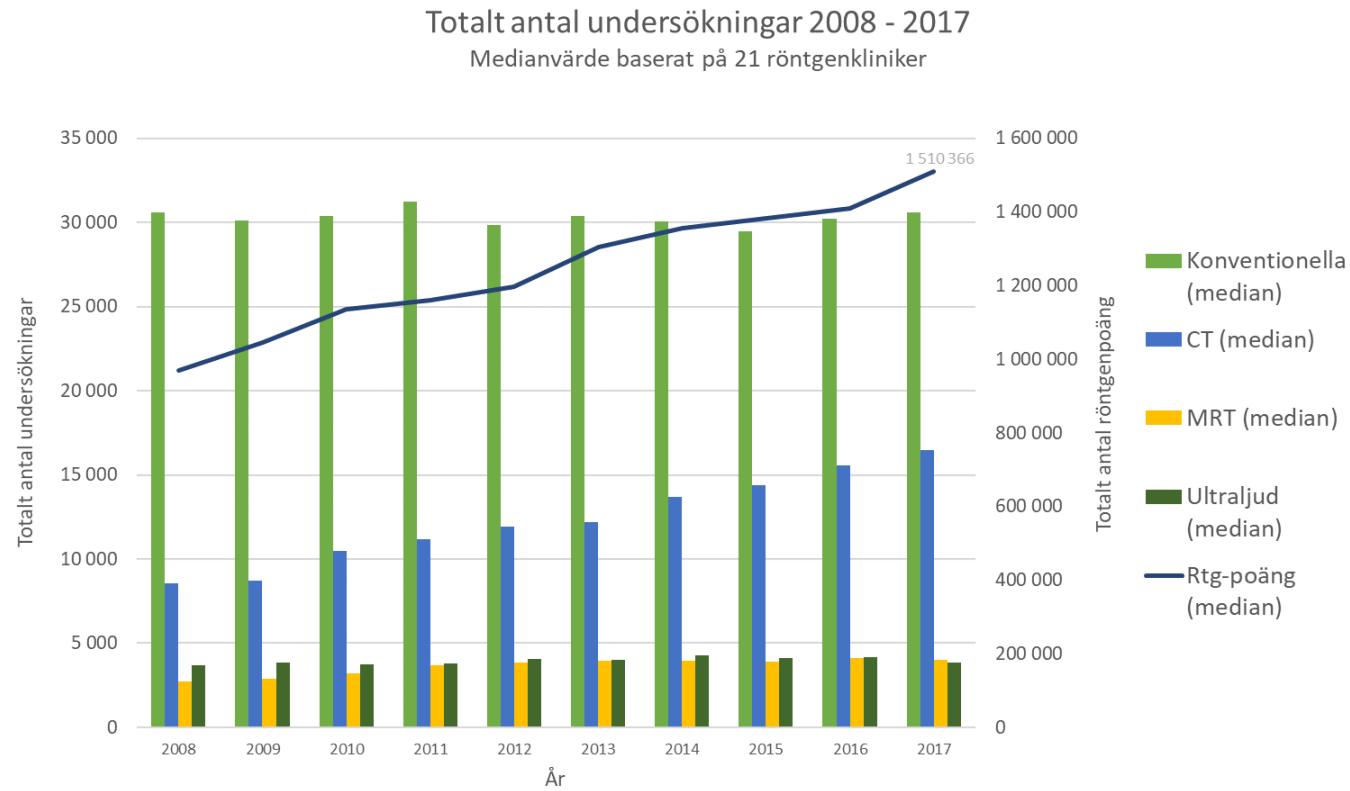
Background

- US (ACR Select)
- Europe: provided by European Society of Radiology (non-profit)
- Pilots in Barcelona, Croatia, Germany, Holland
- Sweden: Region Jönköpings län (Jönköping, Eksjö, Värnamo)
- More regions are interested (Östergötland, and nationally)
- Swedish Radiation Authority supports electronical CDS
- Swedish Society of Radiology, Swedish College of General Practice, Swedish Society of Clinical Physiology and Swedish Society of Nuclear Medicine support implementation of iGuide

About the pilot in Jönköping

- Internal Medicine department in Eksjö, four GP clinics in the region
- Financially supported by Swedish Radiation Authority
- Start April 2017, phase 2 Nov 2018
- Questionnaire before and after

Why referral guidelines?



Why referral guidelines?

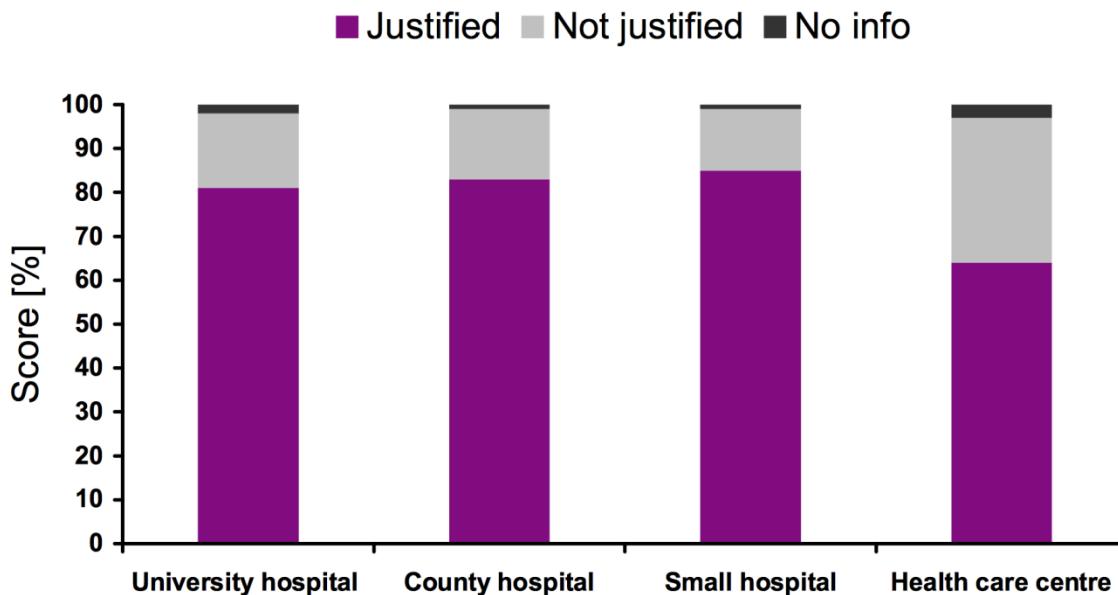


Figure 1 Judgement of justification for prescribers from different types of organisations.

Source:

<http://www.stralsakerhetsmyndigheten.se/Global/Publikationer/Rapport/Stralskydd/2009/S-SM-Rapport-2009-03.pdf>

Why referral guidelines?

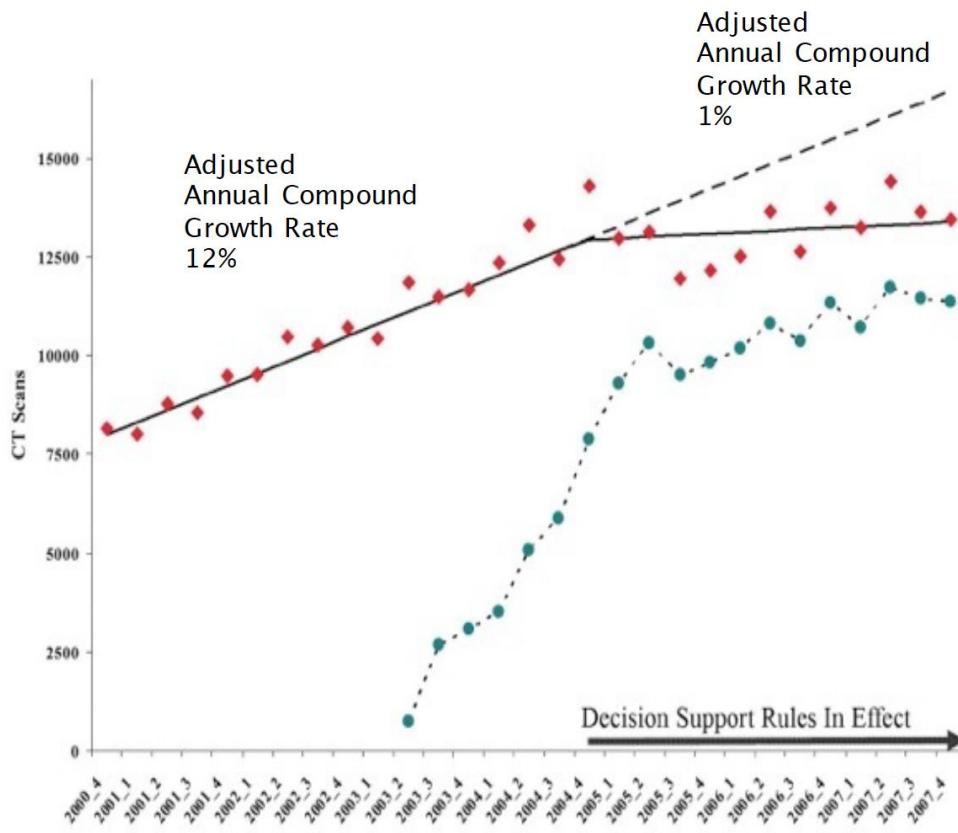
**Massachusetts General
Hospital
High Cost Imaging**

Effects of CDS
2000 - 2007

Quarters 2000-2007

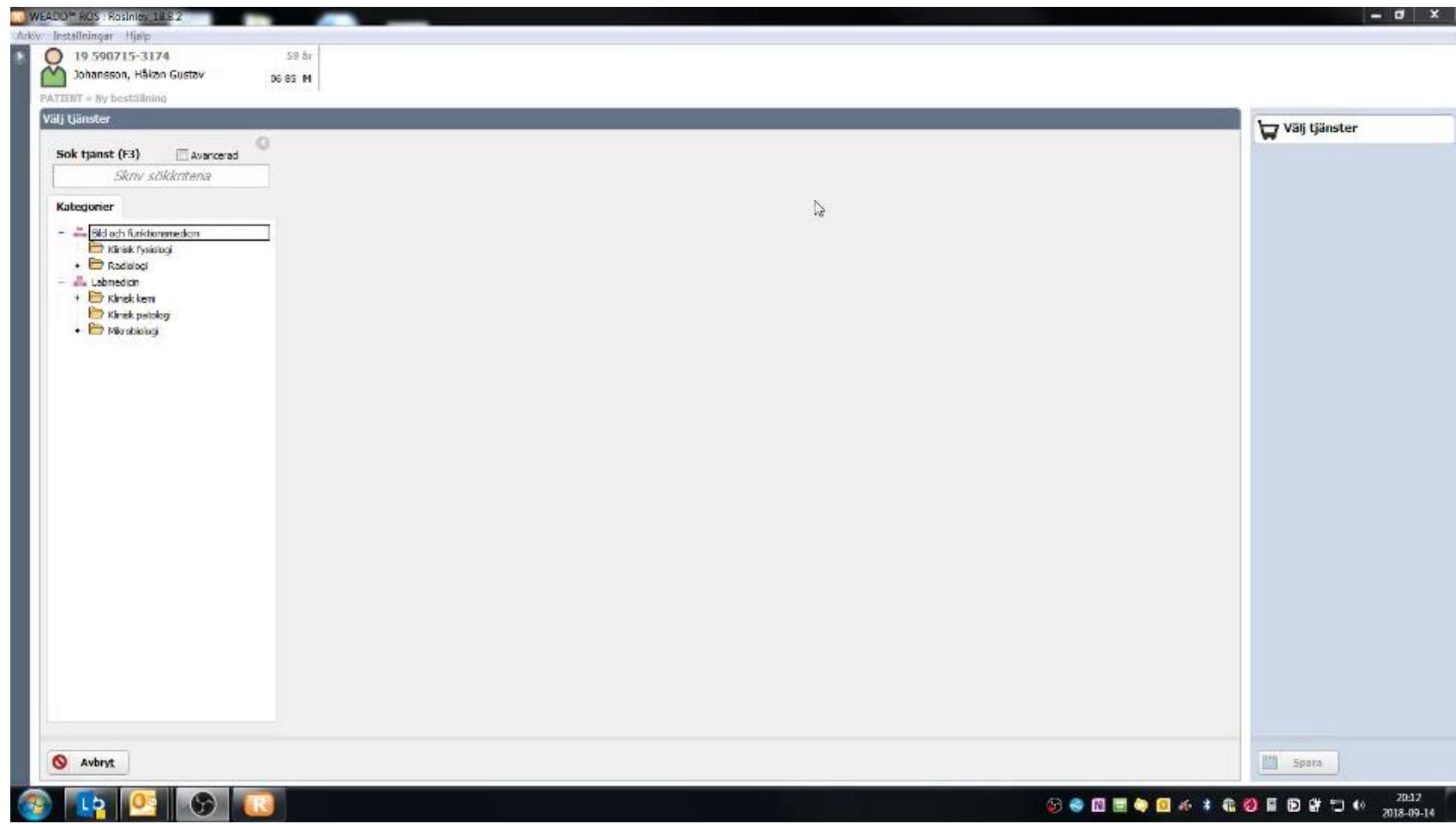
◆ = Total exams

● = Ordered with ROE



Considerations when implementing

- Integration (technical)
- Acceptance
- Time & money



Source

ESR Ind	ESR Exam ID	Procedure Name	Indication	BodyArea	CPT	Modal	RuleScc	RJL procedures
3073698	114538	XRAY, abdomen	Adrenal mass, <4cm, incidental, history of malignancy	Abdomen	74000	XRAY	1	
3073698	114045	CT, abdomen, wo iv contrast	Adrenal mass, <4cm, incidental, history of malignancy	Abdomen	74150	CT	8	
3073698	114044	CT, abdomen, w/iv contrast	Adrenal mass, <4cm, incidental, history of malignancy	Abdomen	74160	CT	1	
3073698	114952	CT, abdomen, wo/w iv contrast	Adrenal mass, <4cm, incidental, history of malignancy	Abdomen	74170	CT	8	RAD0192, CT, adrenals
3073698	114085	MR, abdomen, wo iv contrast	Adrenal mass, <4cm, incidental, history of malignancy	Abdomen	74181	MR	8	MR, abdomen, liver-pancreas-spleen
3073698	114082	MR, abdomen, wo/w iv contrast	Adrenal mass, <4cm, incidental, history of malignancy	Abdomen	74182	MR	1	MR, abdomen, liver-pancreas-spleen
3073698	114129	US, abdomen, adrenal	Adrenal mass, <4cm, incidental, history of malignancy	Abdomen	76775	US	1	
3073698	114191	NUC, abdomen, adrenal, MIBG	Adrenal mass, <4cm, incidental, history of malignancy	Abdomen	78075	NUC	2	
3073698	114188	NUC, iodocholesterol, abdomen, adrenal	Adrenal mass, <4cm, incidental, history of malignancy	Abdomen	78075	NUC	1	
3073698	125057	PET-CT, skull base to mid thigh, FDG	Adrenal mass, <4cm, incidental, history of malignancy	Abdomen	78815	PET-CT	8	
3073698	114223	INV, biopsy, abdomen, adrenal	Adrenal mass, <4cm, incidental, history of malignancy	Abdomen		INV	5	

For radiologists

----- ESR iGuide -----

Undersökning: Hypofarynx och esofagus

Indikationer: dysfagi/sväljningssvårigheter, orofaryngeal, utan känd orsak

Poäng: 6

DSN: 3634602

----- ESR iGuide -----

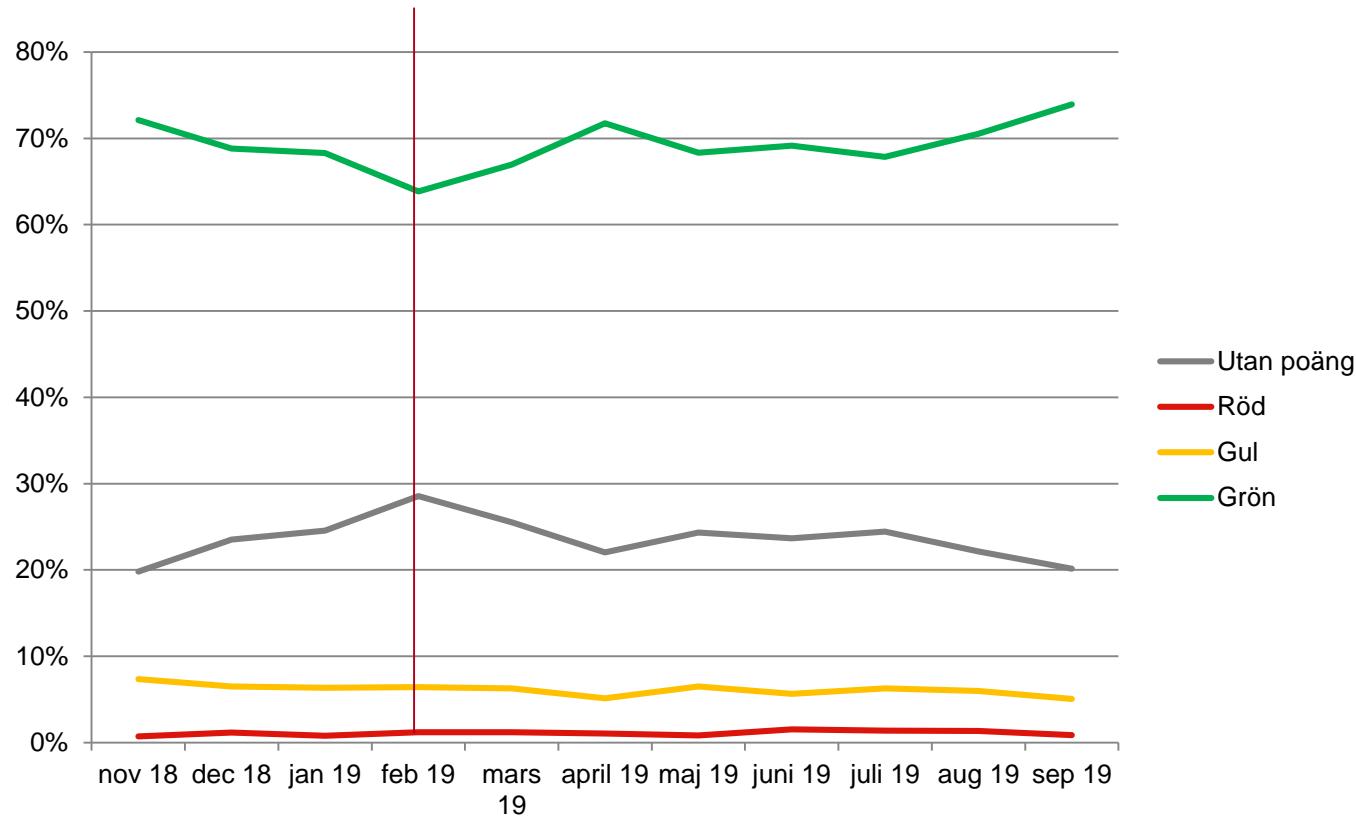
Undersökning: CT hals/torax

Indikationer: Lymfadenopati?

Poäng: -

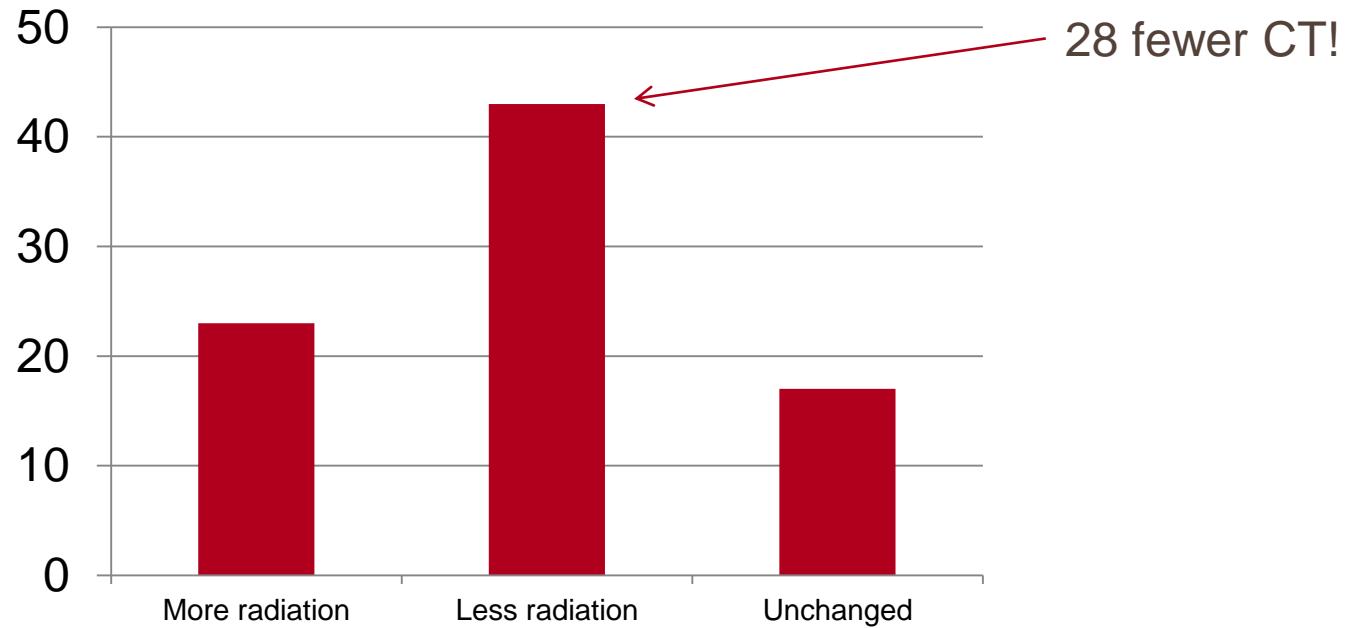
DSN: 3634732

Results - justification

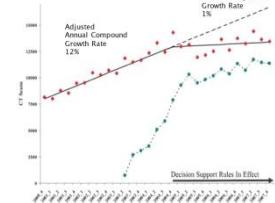
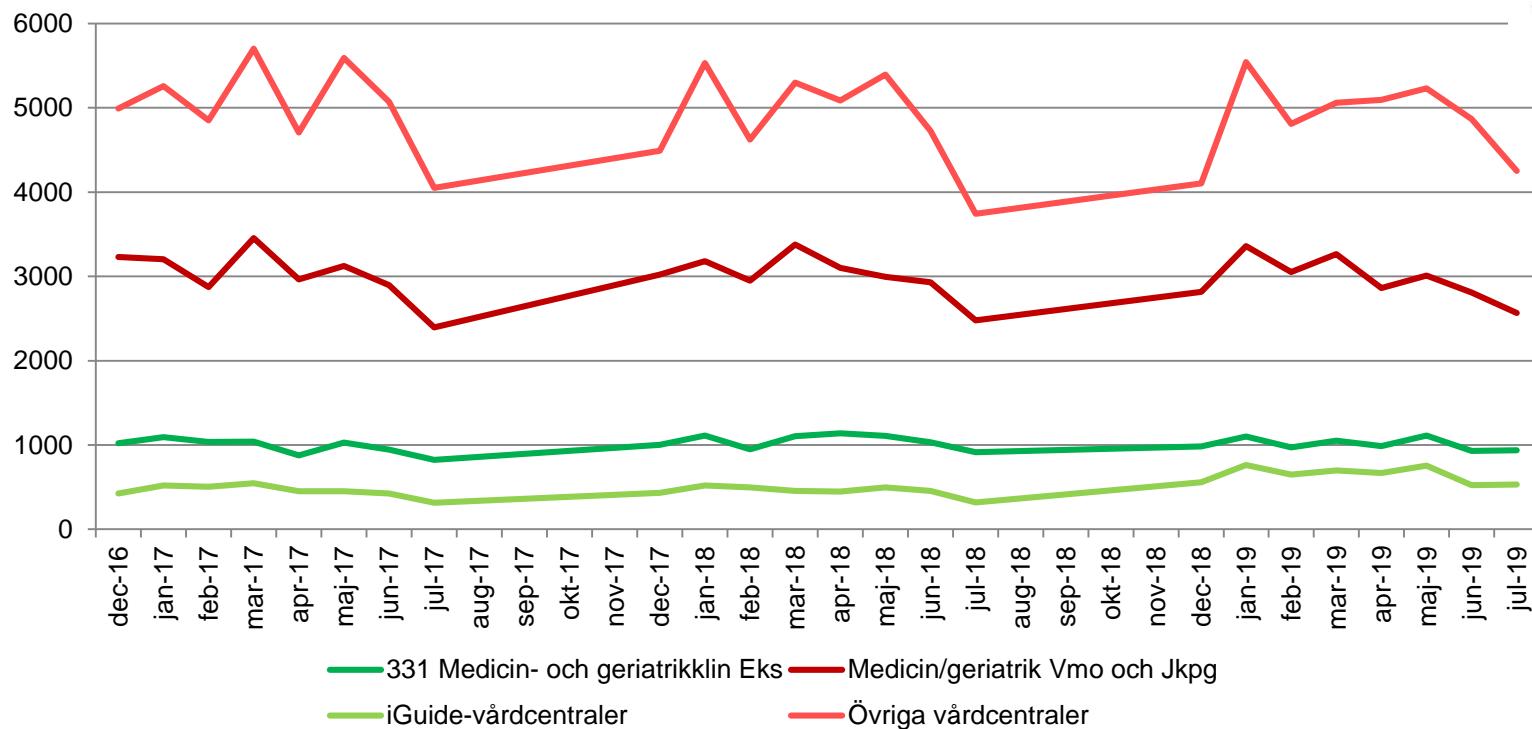


Results – changed exams

Total of 14,452 exams, 84 changed (0,81%)



Results - referrals

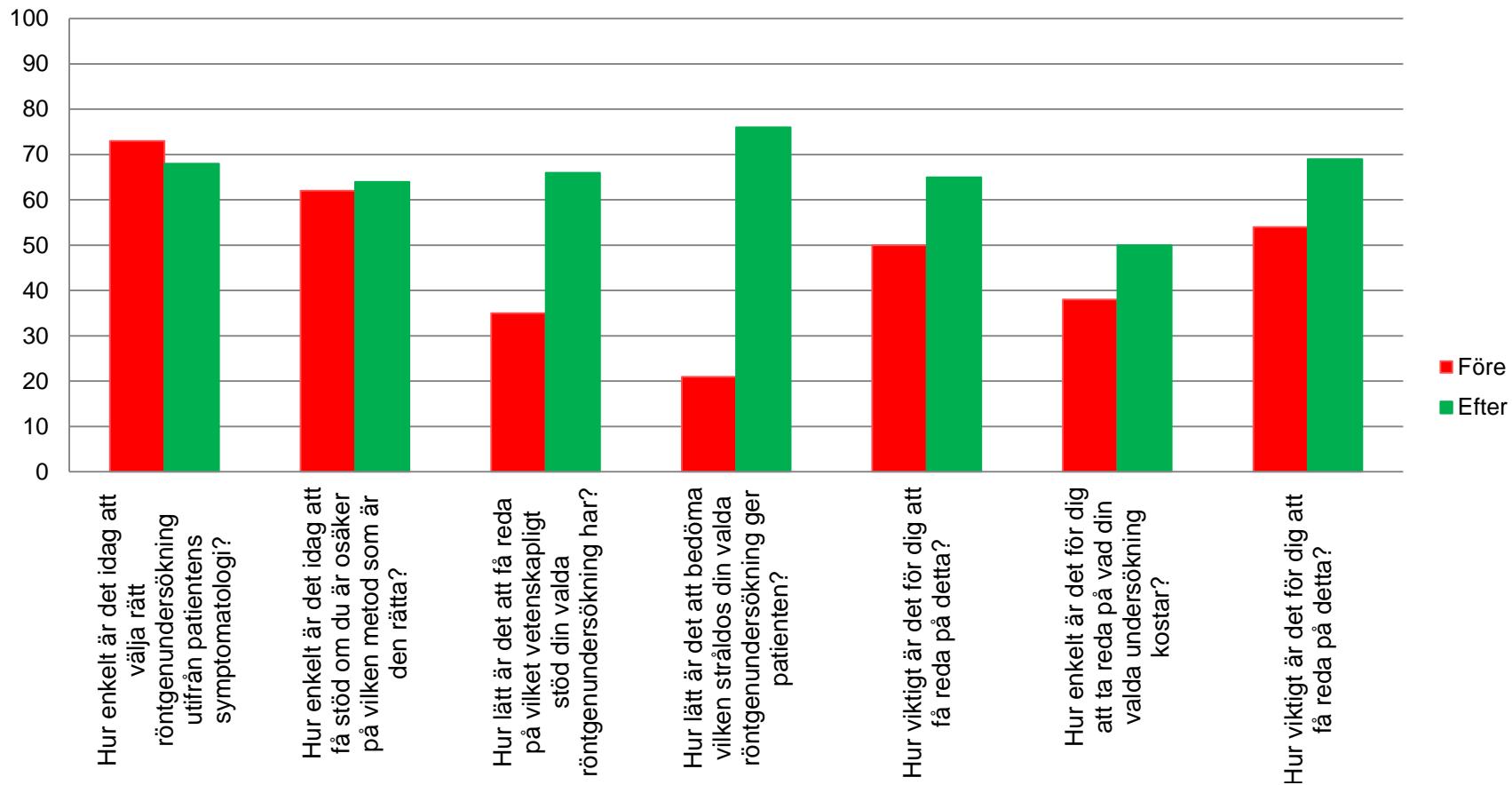


Results - clinicians

Opinions

- Hard to find right indications
- Good to have support
- Doesn't take too much extra time
- Takes too much extra time
- Suggestions:
([top 10 indications](#), [synonyms](#), [more indications](#))

Resultat - clinicians



Results - radiologists

Opinions

Few

Not much help so far

Future

- Improve
- More clinics locally
- At least one more pilot
- National spread