



INSIGHT 2021

Midlands Analyst Network Huddle | Special Edition

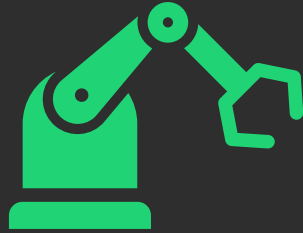
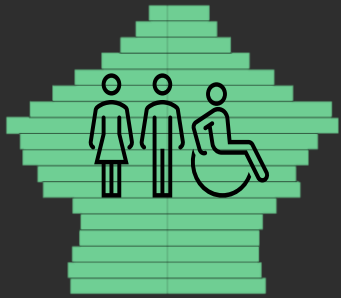
A new perspective on outpatient activity

Thursday 7th October, 11:00-12:00



Midlands
Decision Support
Network

OP care is evolving



AHPs

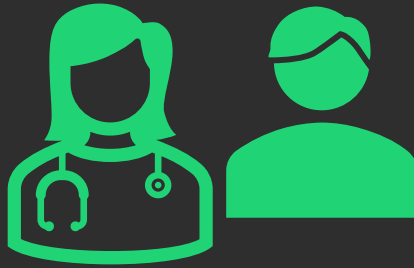


“fundamental redesign”

Possible functions



Diagnostic
procedure



Management of
condition

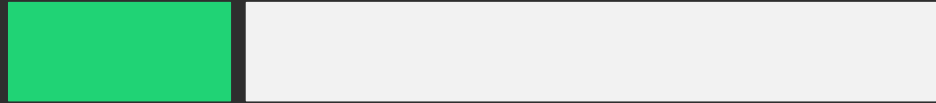


Pre-op
assessment

Why function?



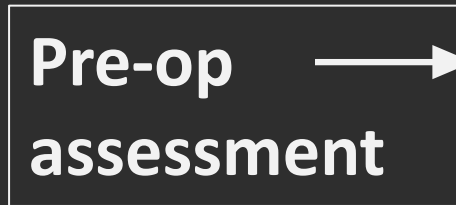
Cardiology



Dermatology



Function?



- Content
- Resources
- Location
- Before and after

Existing SUS variables:

date_attendance

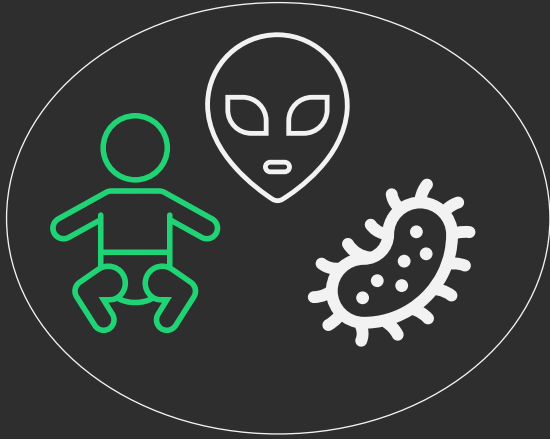
first_attendance

priority_type

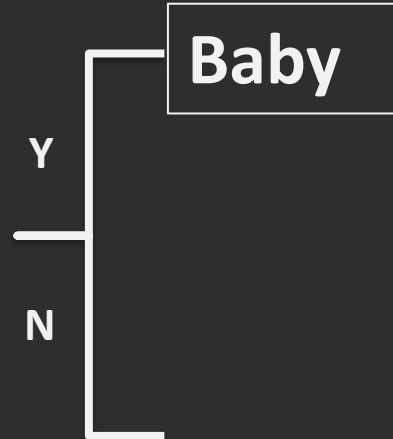
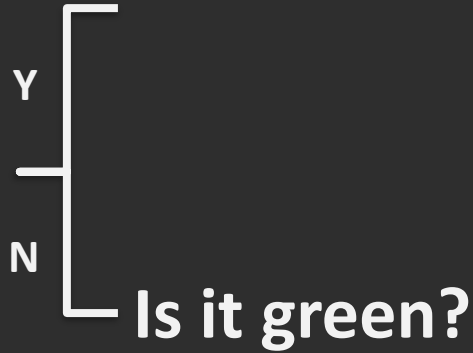
procedure_code

ip_admission_date

Population



Has a mouth?



algorithm

noun [C] • MATHEMATICS, COMPUTING

UK  /'æɪ.l.gə.ri.ðəm/ US  /'æɪ.l.gə.ri.ðəm/

a set of mathematical instructions or rules

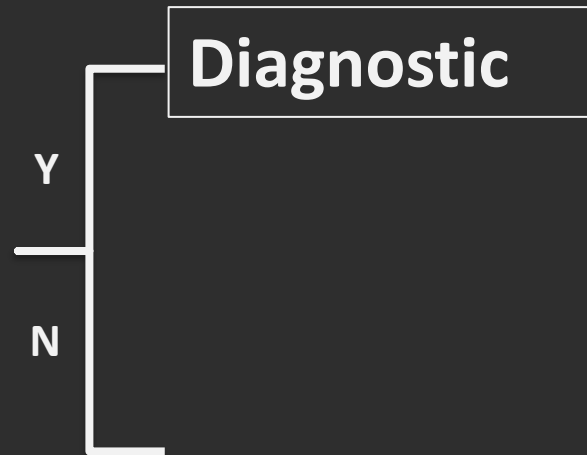
Population



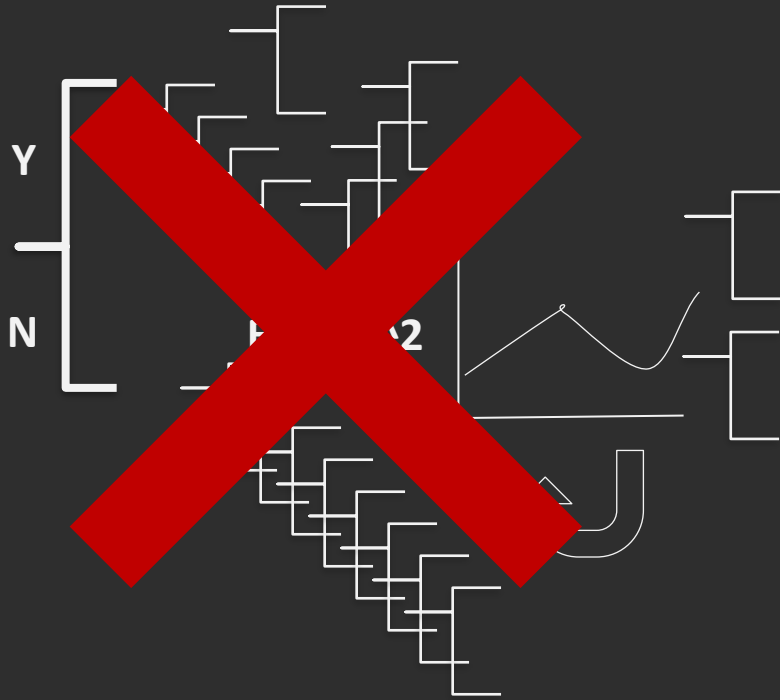
Is urgent?



Has procedure?



Is it green?

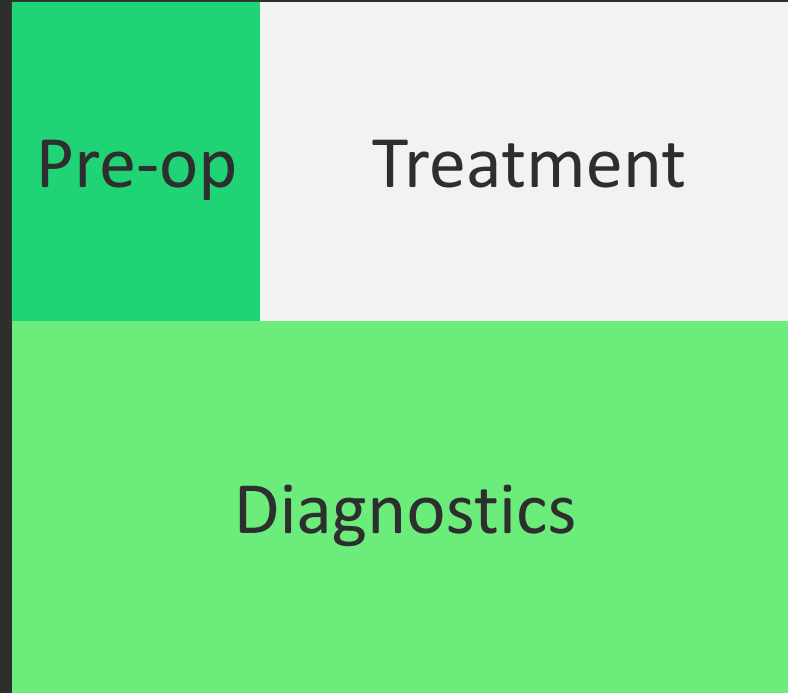


~~Contracting~~

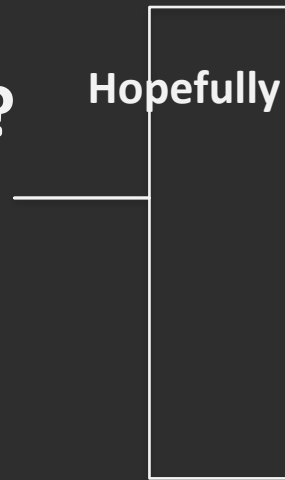
~~Performance
management~~

~~Individual
payments~~

Scale:



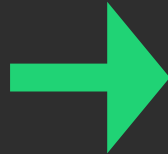
Is Accessible?



Methods



Literature
review



Urgent Investigation

Pre-op assessment

Diagnostic procedure



SUS

Outpatient +
Inpatient

Pool of helpful
variables

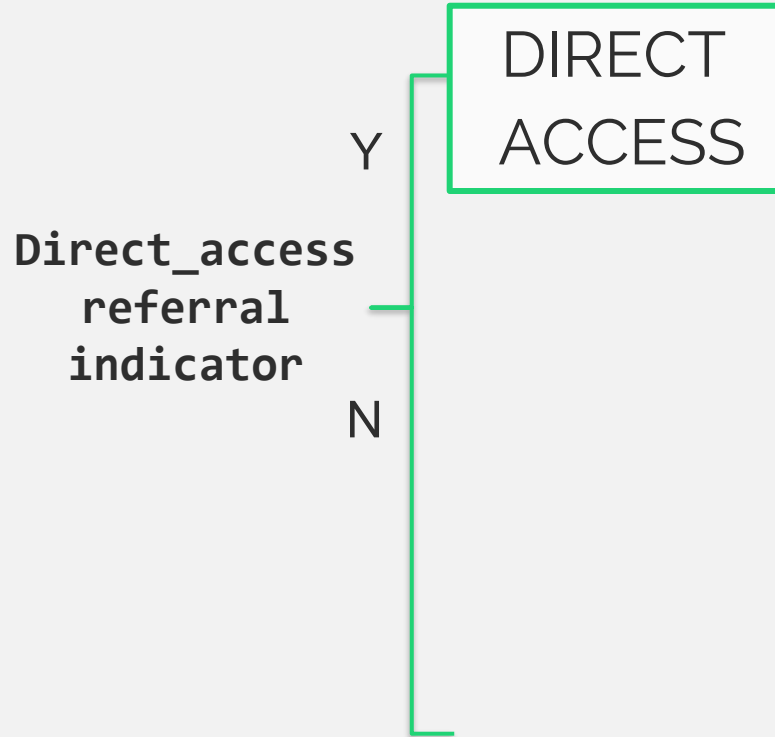
`first_attendance`
`priority_type`
`attendance_date`

the algorithm

For each attendance record...

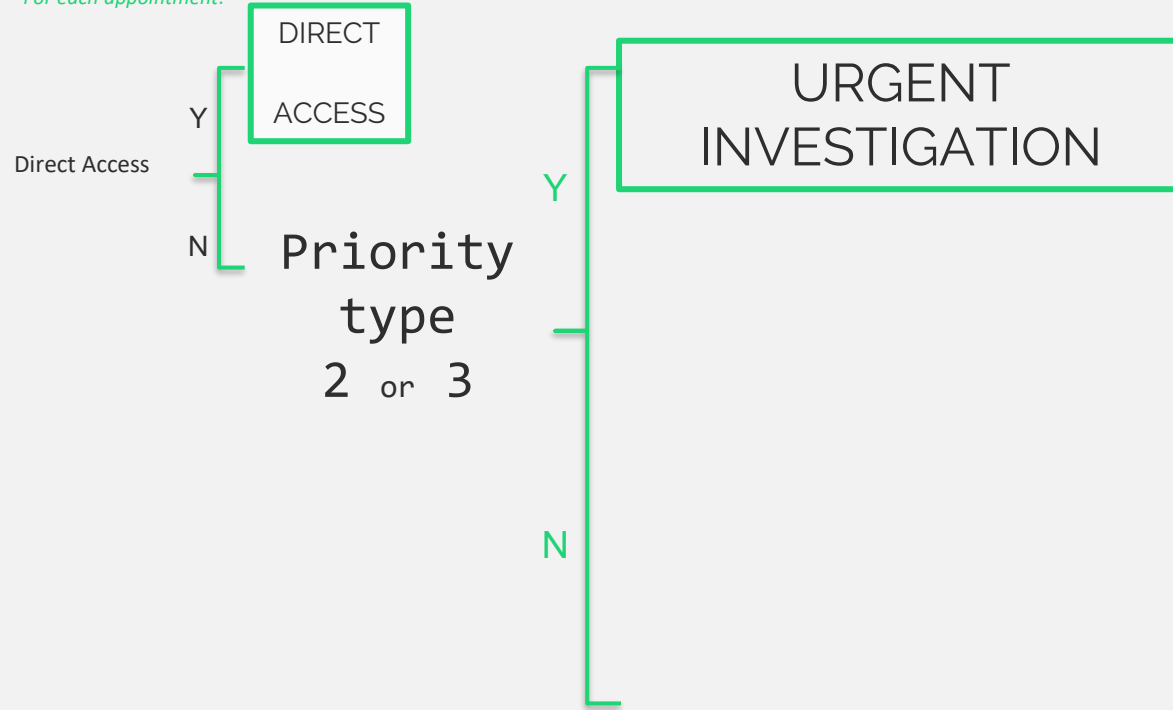
the algorithm

For each appointment:



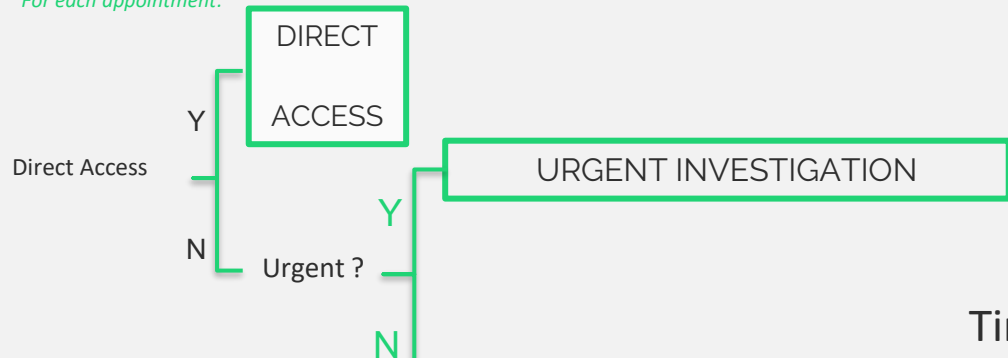
the algorithm

For each appointment:



the algorithm

For each appointment:






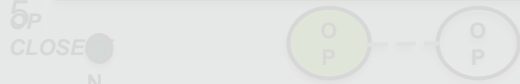


Admission(s) within a year (with same TFC as attendance)

OP att date
IP adm date
Treatment spec.

Time between contacts

Order of events (in time)	Description	Function
1	NEL closest (BEFORE OP) and within 180 days	REV NEL Reverse after NEL.
2	EL closest (BEFORE OP) and within 60 days	POST OP.
3	NEL closest (AFTER OP)	Look at next closest activity
4	EL closest a (AFTER OP) and within 90 days	PRE OP.
5	OP closest (AFTER: NEL next closest (BEFORE))	SEE (row 1)
6	OP closest (AFTER: EL next closest (BEFORE))	SEE (row 2)
7	OP closest (AFTER: OP next closest (BEFORE))	Go to PROC

	Order of events (in time) →	Description	Function
1		NEL closest (BEFORE OP) and within 180 days	REV NEL Review after NEL
2		EL closest (BEFORE OP) and within 60 days	POST OP.
3		NEL closest (AFTER OP)	Look at next closest activity
4		EL closest a (AFTER OP) and within 90 days	PRE OP.

5		OP closest (AFTER). NEL next closest (BEFORE)	SEE (row1)
6		OP closest (AFTER). EL next closest (BEFORE)	SEE (row2)
7		OP closest (AFTER). OP next closest (BEFORE)	Go to PROC

INITIAL OPINION

DIRECT ACCESS

URGENT INVESTIGATION

REVIEW AFTER NEL ADM.

PRE-OP ASSESSMENT

DIAGNOSTIC PROCEDURE

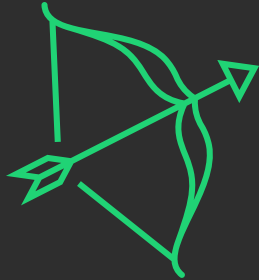
TREATMENT

DISCUSS RESULTS

POST-OP REVIEW

STRUCTURED REVIEW

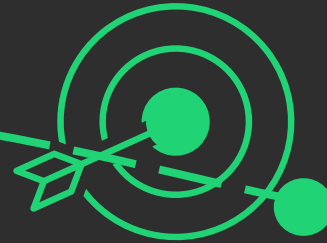
Classification
system



Rules
for
diagnostic
procedure

True
function
(target)

helpful?



diagnostic
procedure

Initiatives

	Referral Reduction	Virtual Consultations	Group Consultations	Nurse/AHP Led
Initial opinion	●	●	●	●
Structured review		●	●	●
Diagnostic procedure				●
Discuss results		●		●
Treatment				●

A resource for all

“ Transforming outpatient services is complex and is very often specific to particular clinics – and activities within them.

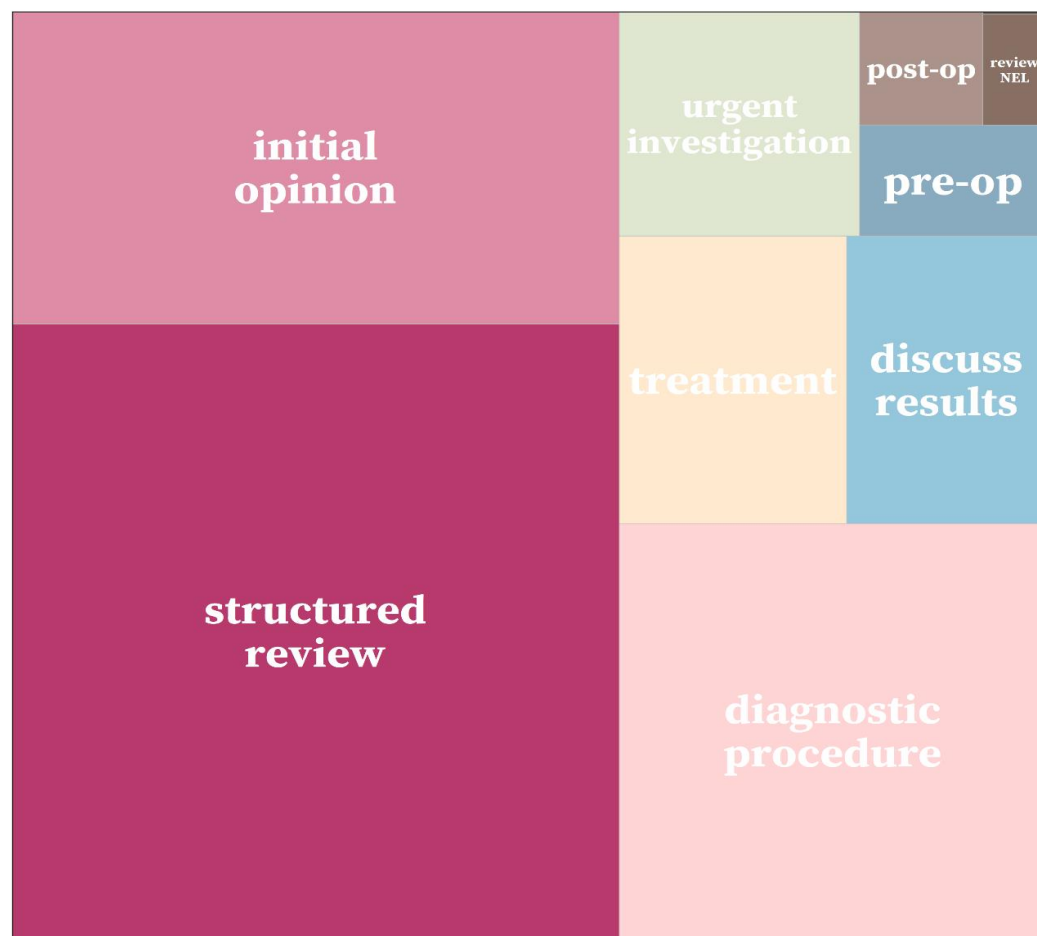
Each clinic is likely to require different design solutions and interventions.

- Rethinking Outpatient Services. Nuffield Trust (2018)

Illustrating Outcomes

BSOL

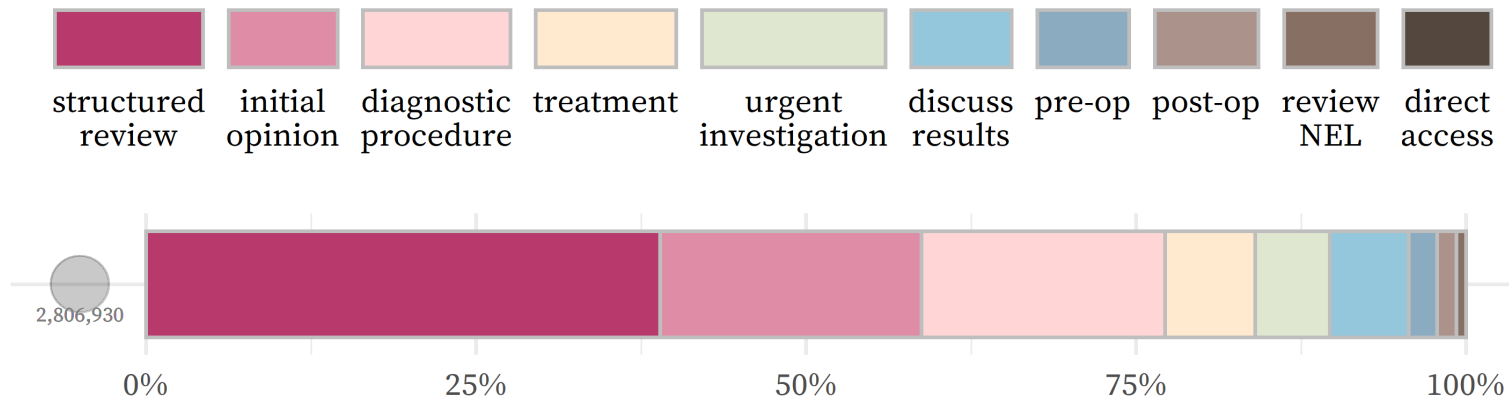
2019/20



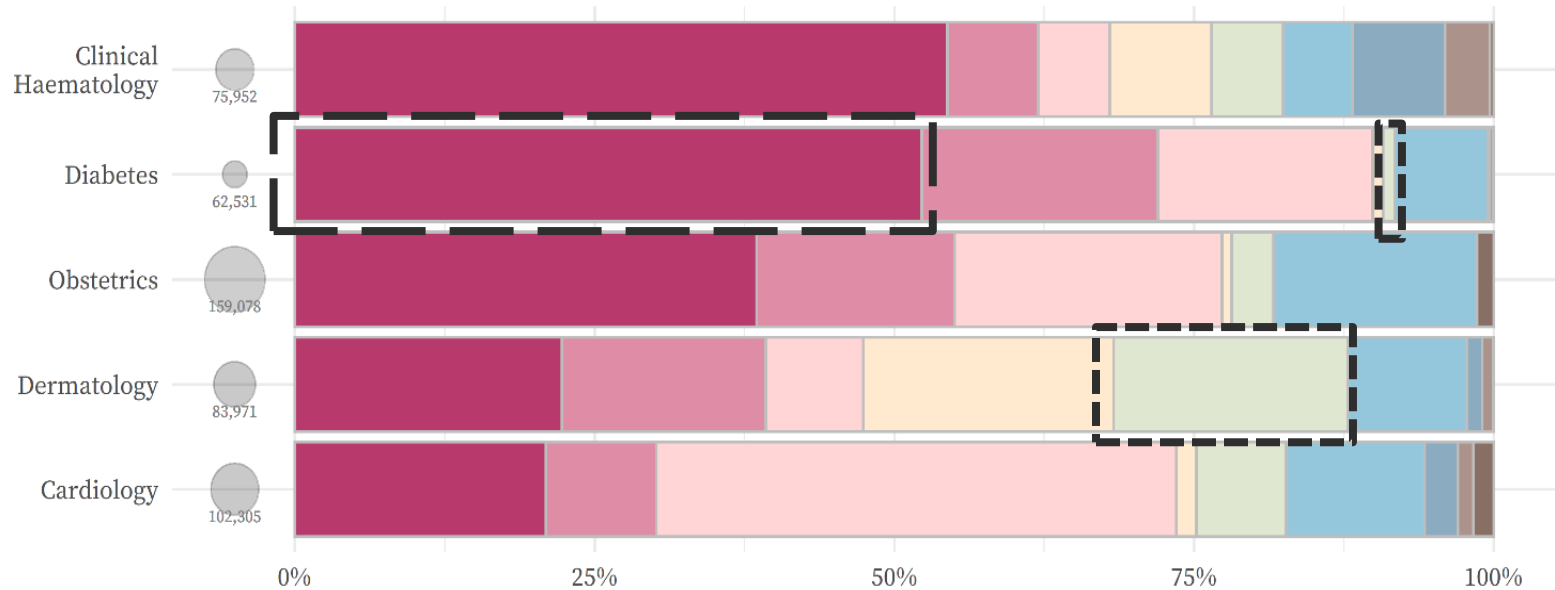
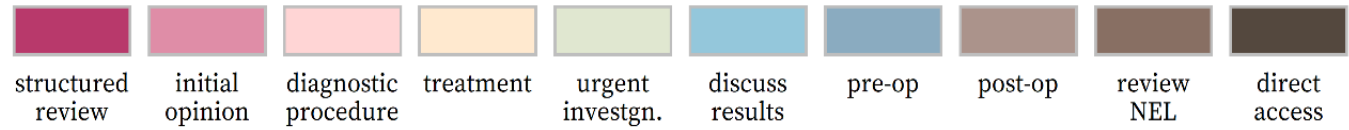
BSOL 2019/20



Function of attendance



Function of attendance



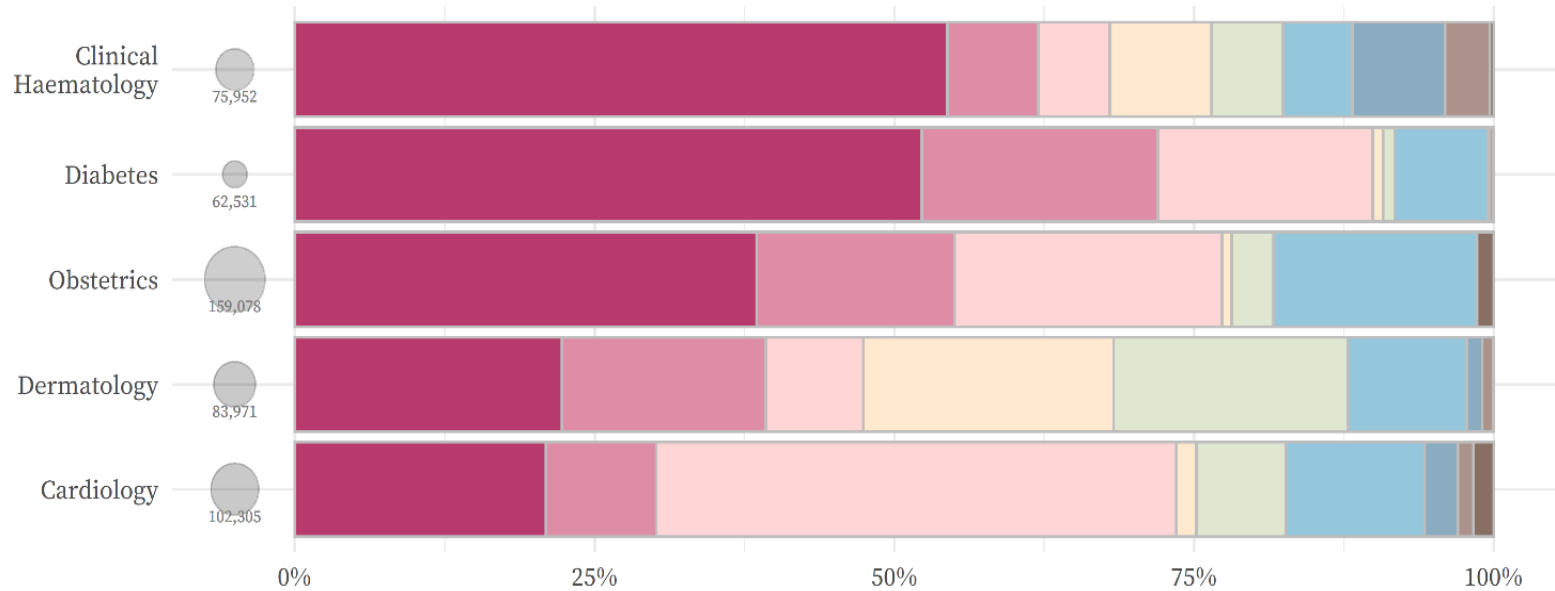
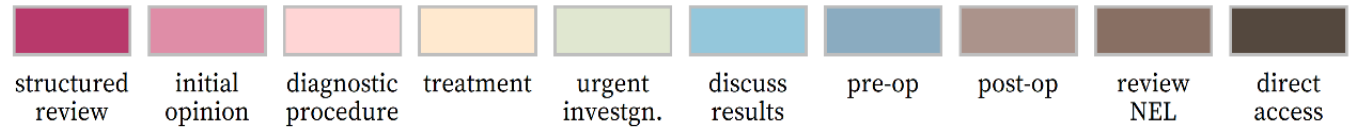
Cardiology

first

follow-up

Dermatology

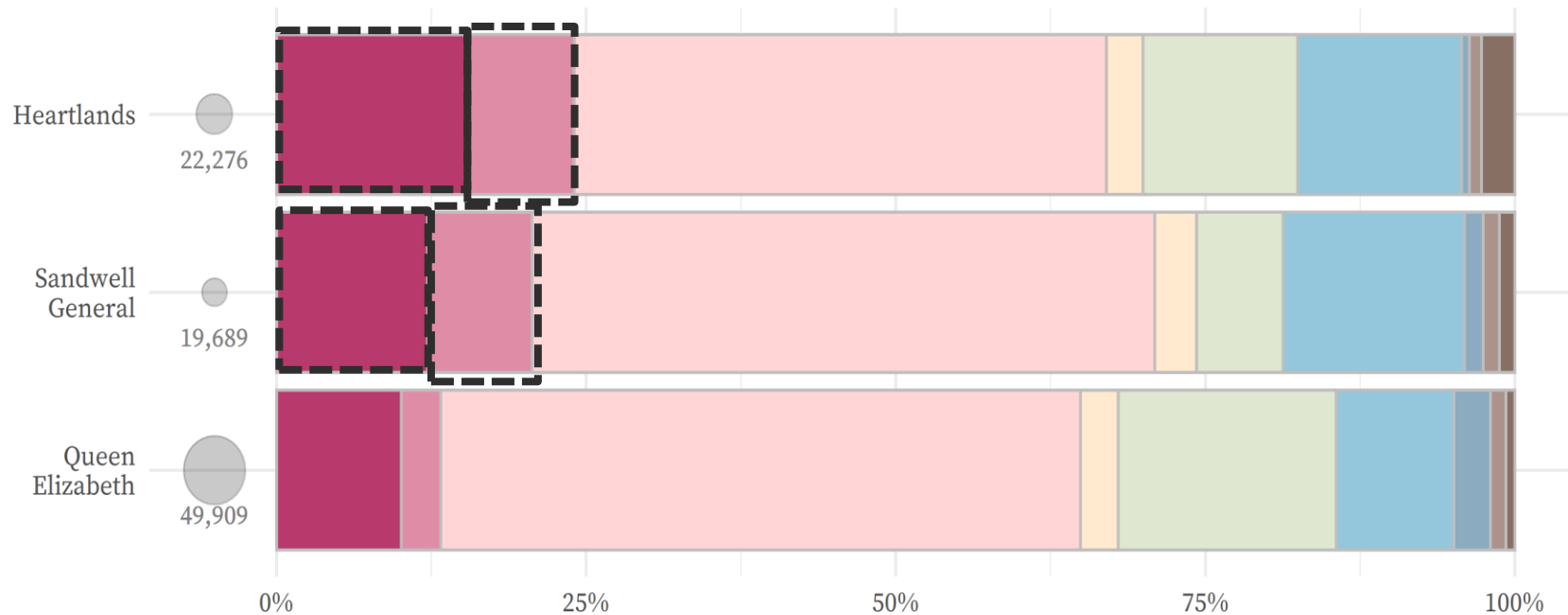
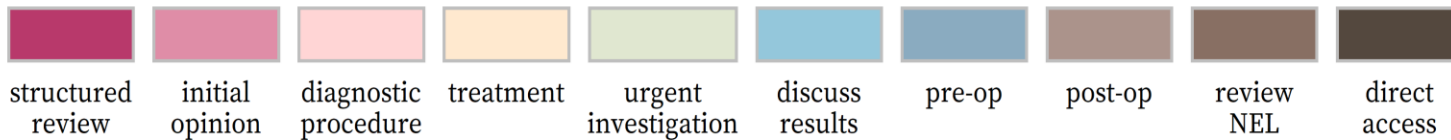
Function of attendance



To hospital-level
illustrations →

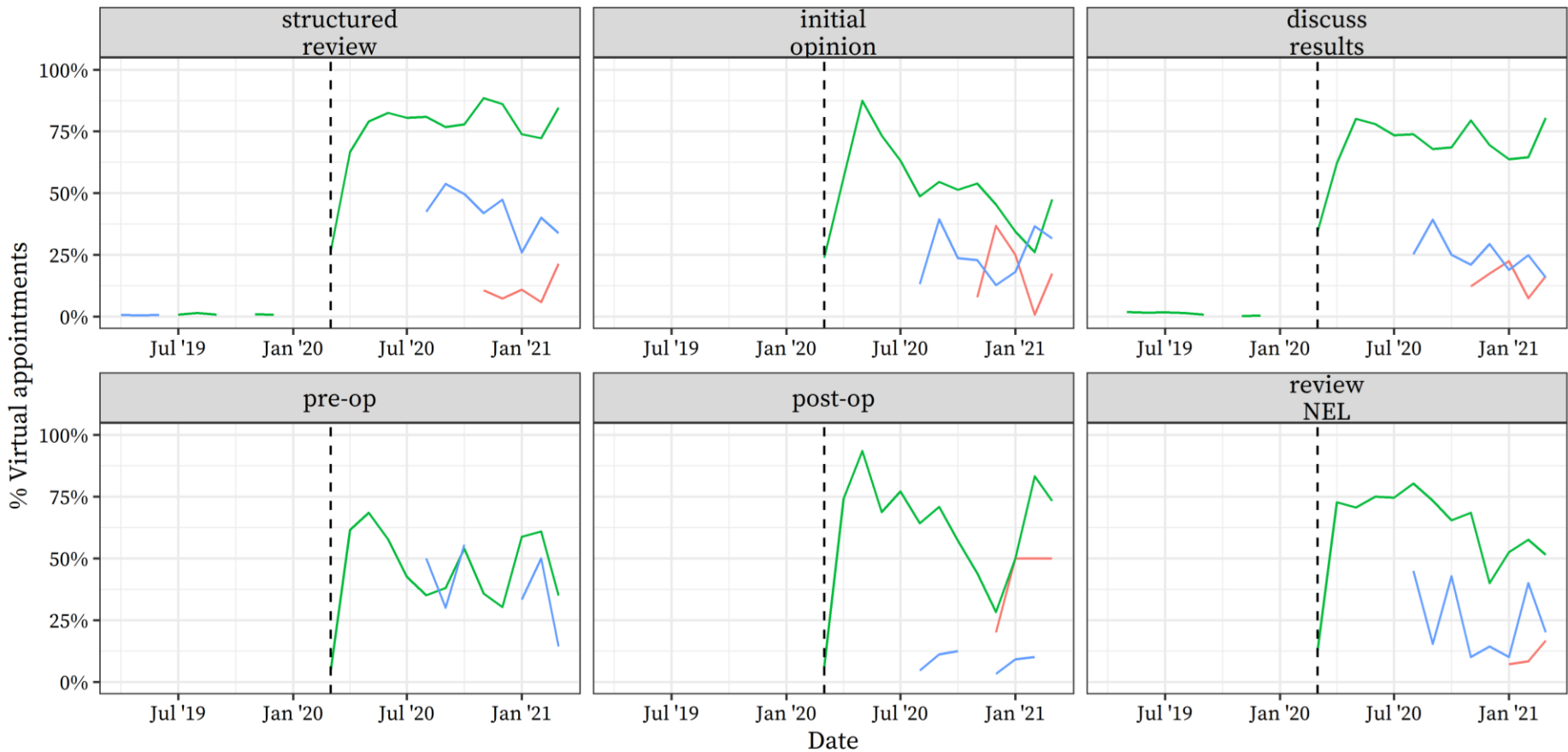
(“Is there an opportunity to
deliver OP care more
effectively?”)

Function of attendance



Virtual Consultations

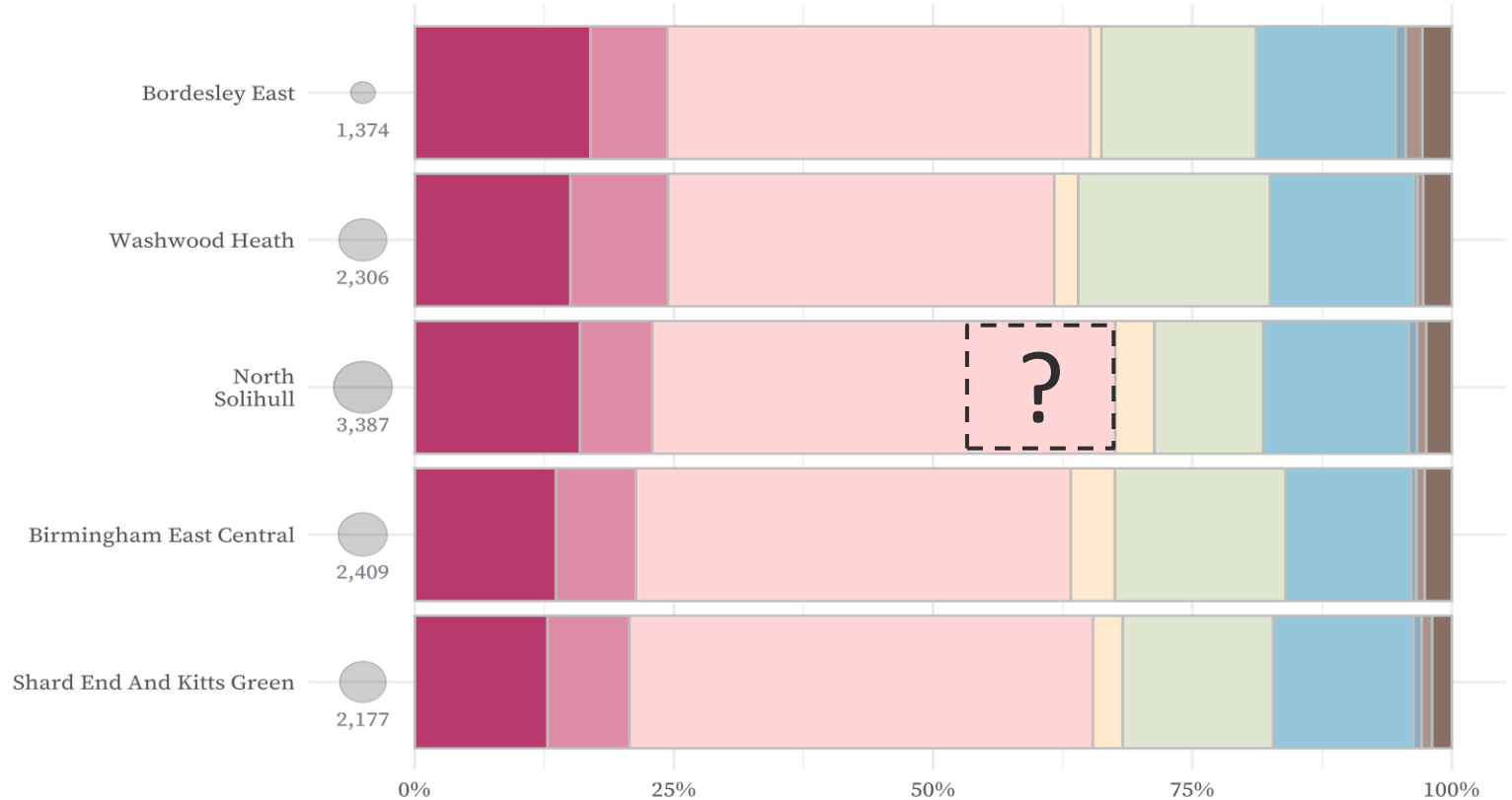
Heartlands Queen Elizabeth Sandwell General



Function	Maximum proportion virtual consultations	Attendances 2019-20 ¹	Maximum number virtual consultations ¹
Diagnostic Procedure	0%	9,570	0
Structured Review	50%	3,445	1,722
Discuss Results	25%	2,953	738
Urgent Investigation	0%	2,782	0
Initial Opinion	25%	1,911	478
Treatment	0%	659	0
Review Nel	30%	601	180
Post-Op	50%	217	108
Pre-Op	50%	138	69
		22,276	3,296

14 %

Function of attendance



id	age	sex	First_attendance	Function
531ABC	67	2	2	Pre-op
742XYZ	1	1	1	diagnostic

Your ideas

Comments /
Questions /
Suggestions?