

# **Doctor! The mafia is running this place!**

***When does hospital become bad for your health?***

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# The conveyor belt of healthcare

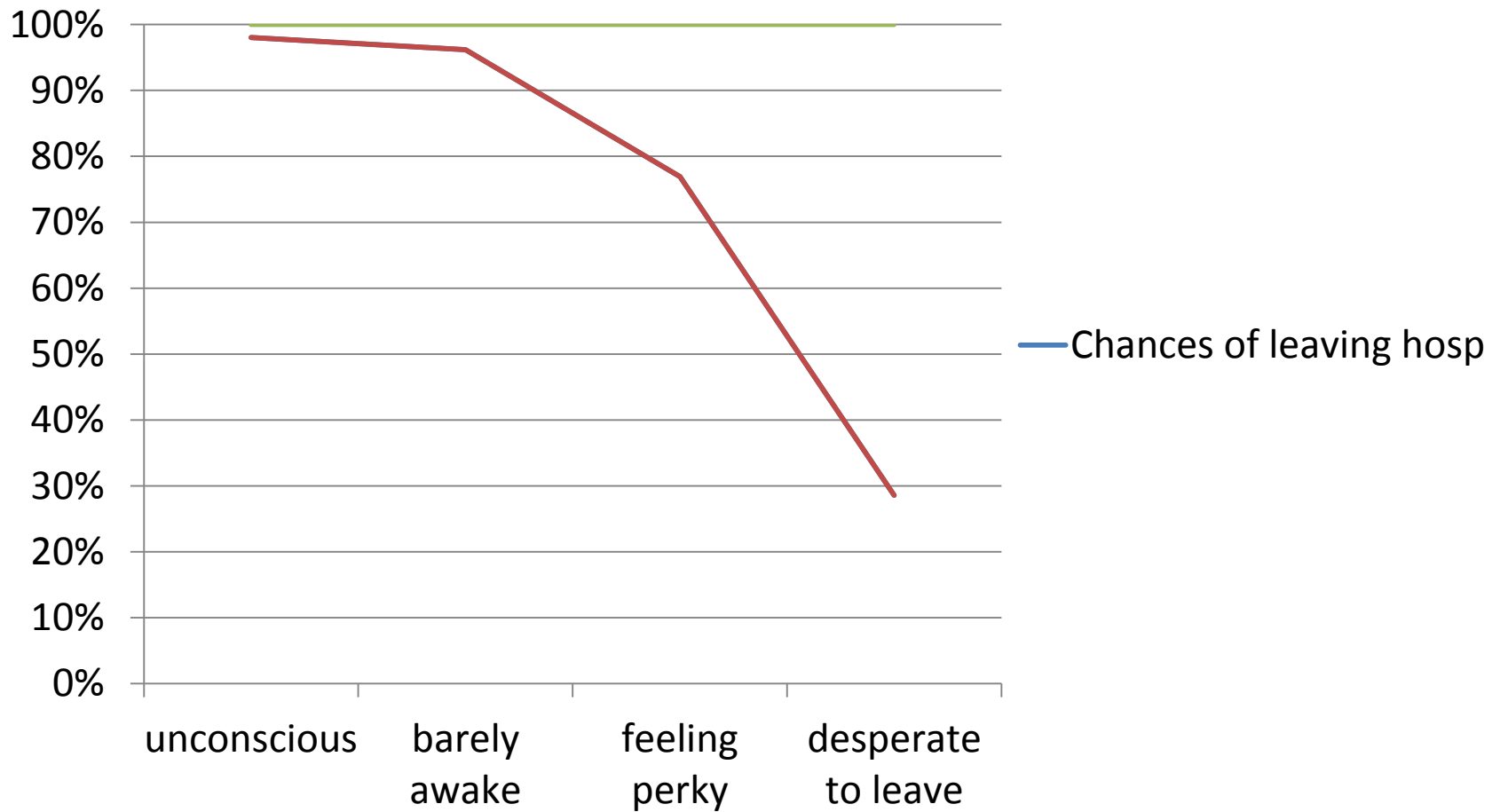


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Time to go. Your meter has run out.



# The inverse relationship between readiness to leave and chances of getting out..



# Where on earth am I?

- A&E
- AAU
- AEC
- OBU
- AMU
- SAU
- PCU
- ITU

# Welcome to the 'Toxic Hospital'

Please enjoy your stay and make the most of the many services we have to offer....



- Lack of exercise/movement
- Intermittent noise and light control
- Environmental manipulation
- Sleep deprivation/adjustment
- Controlled fear
- Disorientation
- Sensory deprivation (hearing and vision)

# Otherwise known as 'Hotel Torture'



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“you have two hours to create a ‘delirium showstopper’ .....





# Dementia in hospitals is common

Common

In unselected medical admissions >70 years

- 50% cognitive impairment
- 42% dementia

High risk of adverse events

Under  
recognised

Only 50% with recognised diagnosis

Cannot offer best care without diagnosis

Cognitive assessment embedded in CGA

Sampson et al, BJP 2009 195(1):61-6

Goldberg SE et al, Age Ageing. 2012 ;41(1):80-6.

# Screening for dementia in delirium

## Problem

Delirium is common (15-25%)  
Dementia main RF to develop delirium

- OR 6.6 (CI - 4.30-10.19)

DSD in 65% of people with delirium

## Administration

By definition difficult to diagnose  
Performance based tools not valid  
Difficulty with persistent delirium  
– when does it end?

Collins N et al, Age Ageing. 2010 Jan;39(1):131-5.

Ahmed S et al, Age Ageing. 2014 May;43(3):326-33.

Fick DM, J Am Geriatr Soc. 2002;50(10):1723-32.

# What do we want?

- Good care needs recognition of problem
- Good care needs good understanding
- Good care needs on-going training and role modelling

**Incentives for quality?**

# GOAL of CQUIN

To support the identification of patients with dementia and delirium, alone and in combination alongside other medical conditions. It aims to prompt appropriate referral, follow up, and effective communication between providers and general practice, through the introduction of a care plan on discharge; after the patient is discharged from hospital or community services following an episode of emergency unplanned care

# Dementia CQUIN

Three part indicator:

## **3a:**

The proportion of patients aged 75 years and over to whom case finding is applied following an episode of emergency, unplanned care to either hospital or community services;

The proportion of those identified as potentially having dementia or delirium who are appropriately assessed;

The proportion of those identified, assessed and referred for further diagnostic advice in line with local pathways agreed with commissioners, who have a written care plan on discharge which is shared with the patient's GP.

## **3b**

To ensure that appropriate dementia training is available to staff through a locally determined training programme.

## **3c:**

To ensure that carers of people with dementia and delirium feel adequately listened to and supported.

# In summary

- FIND people with dementia and delirium
- Assess them appropriately
- Diagnose if appropriate OR signpost to community services
- Train all our staff appropriately
- Provide good carer experience



(label)

Patient name:

Date of birth:

Patient number:

Date:

Time:

Tester:

**Assessment test  
for delirium &  
cognitive impairment**

**CIRCLE**

**[1] ALERTNESS**

*This includes patients who may be markedly drowsy (eg. difficult to rouse and/or obviously sleepy during assessment) or agitated/hyperactive. Observe the patient. If asleep, attempt to wake with speech or gentle touch on shoulder. Ask the patient to state their name and address to assist rating.*

Normal (fully alert, but not agitated, throughout assessment)	0
Mild sleepiness for <10 seconds after waking, then normal	0
Clearly abnormal	4

**[2] AMT4**

*Age, date of birth, place (name of the hospital or building), current year.*

No mistakes	0
1 mistake	1
2 or more mistakes/untestable	2

**[3] ATTENTION**

*Ask the patient: "Please tell me the months of the year in backwards order, starting at December."  
To assist initial understanding one prompt of "what is the month before December?" is permitted.*

Months of the year backwards	Achieves 7 months or more correctly	0
	Starts but scores <7 months / refuses to start	1
	Untestable (cannot start because unwell, drowsy, inattentive)	2

**[4] ACUTE CHANGE OR FLUCTUATING COURSE**

*Evidence of significant change or fluctuation in: alertness, cognition, other mental function (eg. paranoia, hallucinations) arising over the last 2 weeks and still evident in last 24hrs*

No	0
Yes	4

**4 or above:** possible delirium +/- cognitive impairment

**1-3:** possible cognitive impairment

**0:** delirium or severe cognitive impairment unlikely (but delirium still possible if [4] information incomplete)

**4AT SCORE**



# Teaching and training



# Carers survey

Father was being discharged without our knowledge!

I felt if I had not been there Mum would not have eaten

Dementia is the forgotten illness and I have to watch her die slowly and awfully

My husband's treatment was appalling! If he was an alcoholic he would have had better treatment. Being 80 with dementia you have no hope

(All entries to be signed)

P

collateral hx.

# Methods

## Population

Medical admissions aged >70 years  
DSM-IV-TR delirium  
Powered to recruit n=124

## Index test

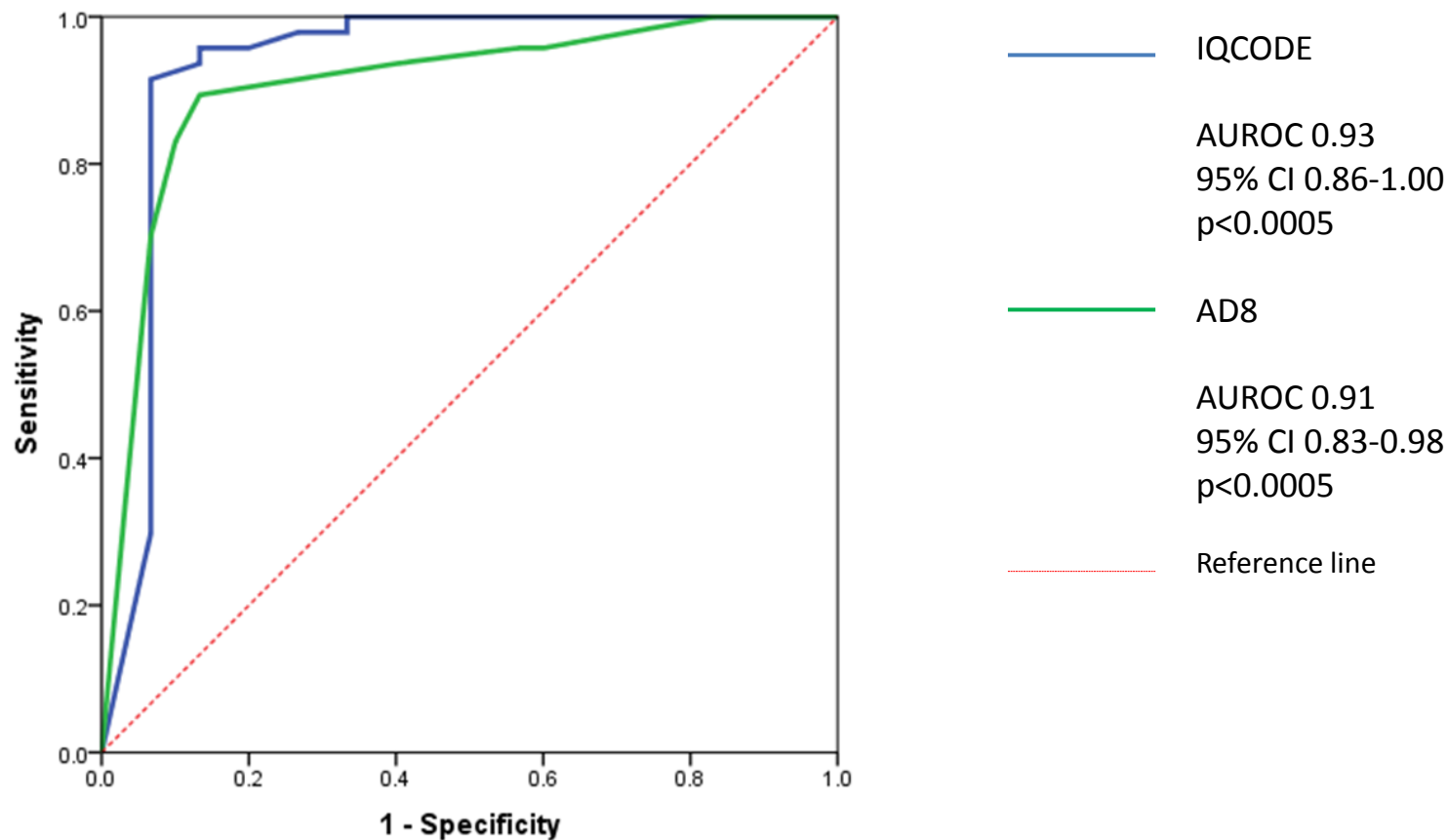
Informant interview  
• IQCODE and AD8 completed

## Reference Standard

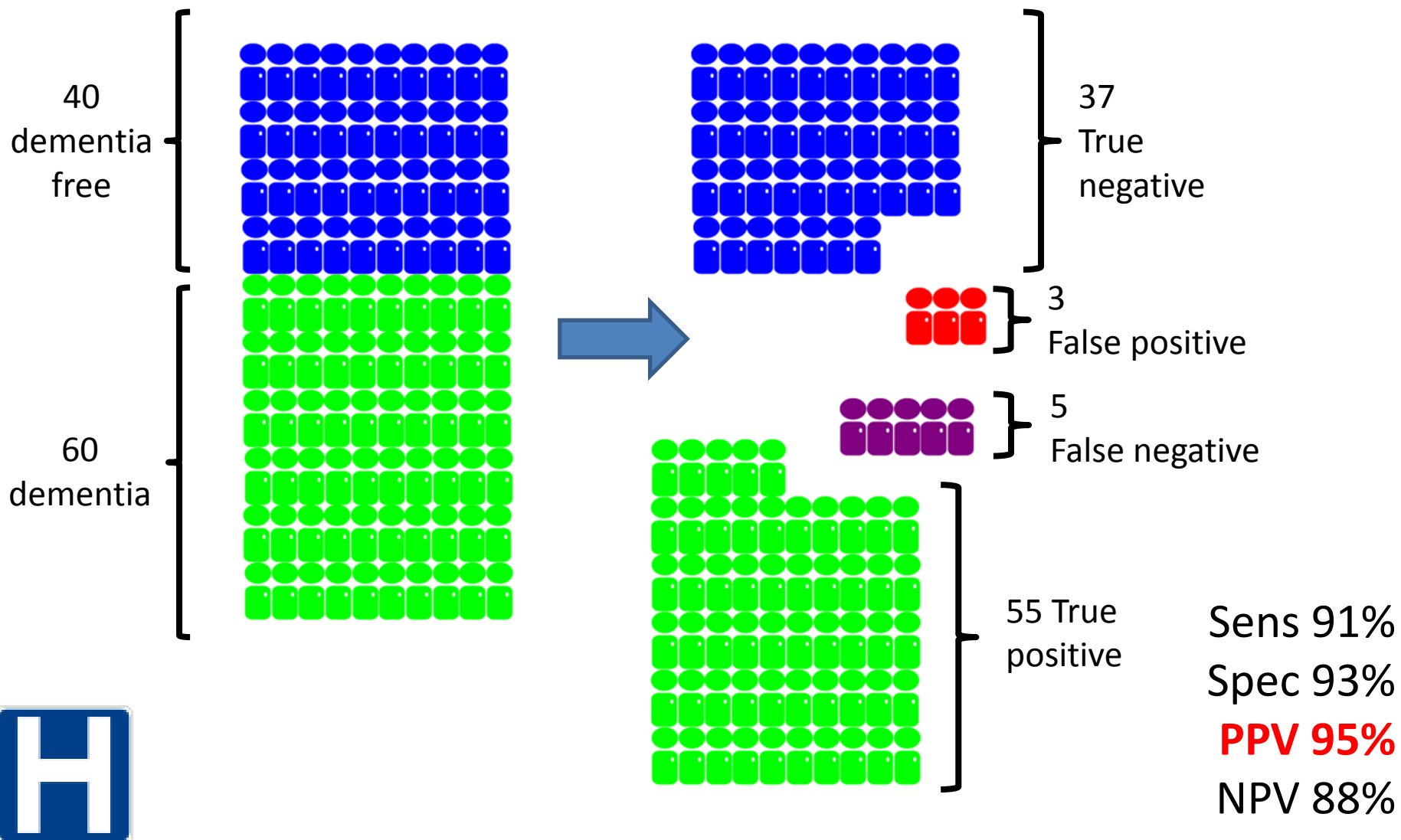
3 month follow-up  
Dementia diagnosis made (Blinded)  
DSM-IV criteria using  
• Interview and examination  
• Addenbrooke's Cognitive Examination III (ACE III)

# The IQCODE and AD8 are 'very good' at diagnosing dementia in delirium

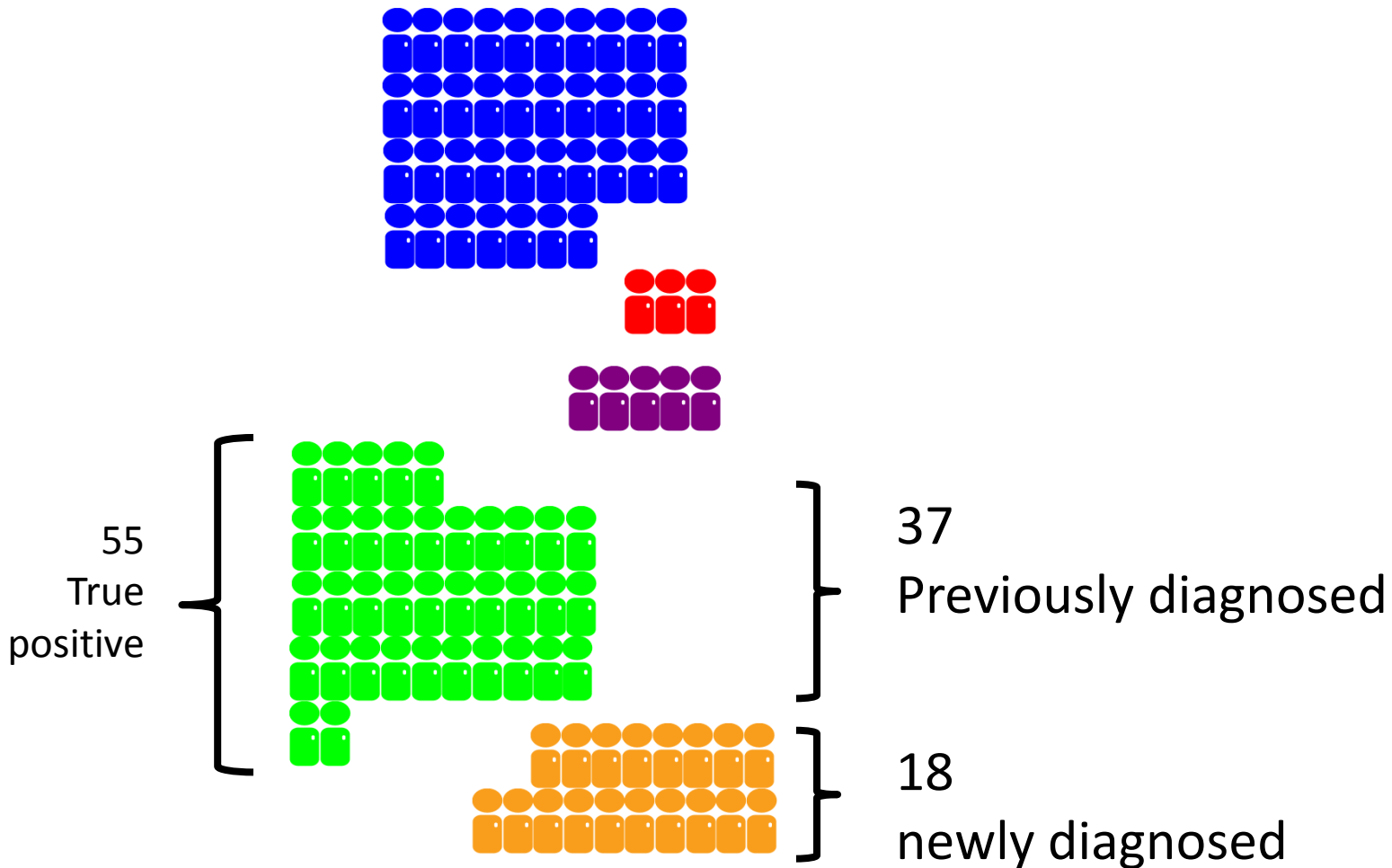
Receiver operating characteristic curve to diagnose dementia



# The impact of implementing the IQCODE in older people with delirium



# The impact of implementing the IQCODE in older people with delirium



# Conclusions



Useful

The IQCODE at  $>3.82$  and AD8 at  $>6$  are both a sensitive and specific indicator of dementia in those with delirium



Impact

Significant impact to research community

Routine use of either tool in clinical practice will have significant impact on patient care



# Summary/thoughts

- We look after a lot of dementia and delirium
- It is under recognised
- The CQUIN has helped this a bit but few many trusts not using money to drive improvements
- Other options for diagnosing should be considered
- ?impact on memory clinics