

Development of patient level outcomes: KPIs for FLSs for the IOF

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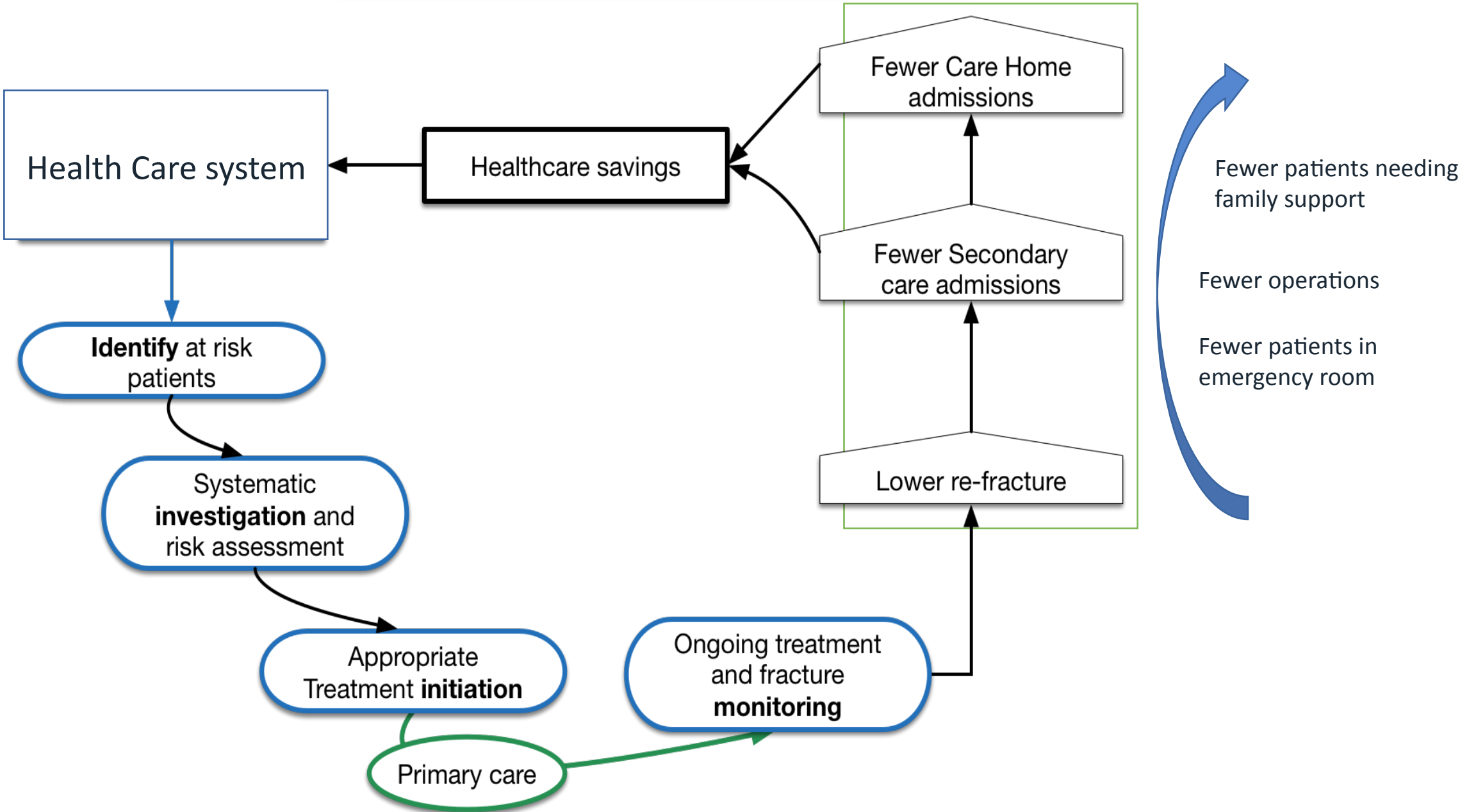
The FLS should be effective at organisational level (BPF)

Is it effective at patient level? (KPI)

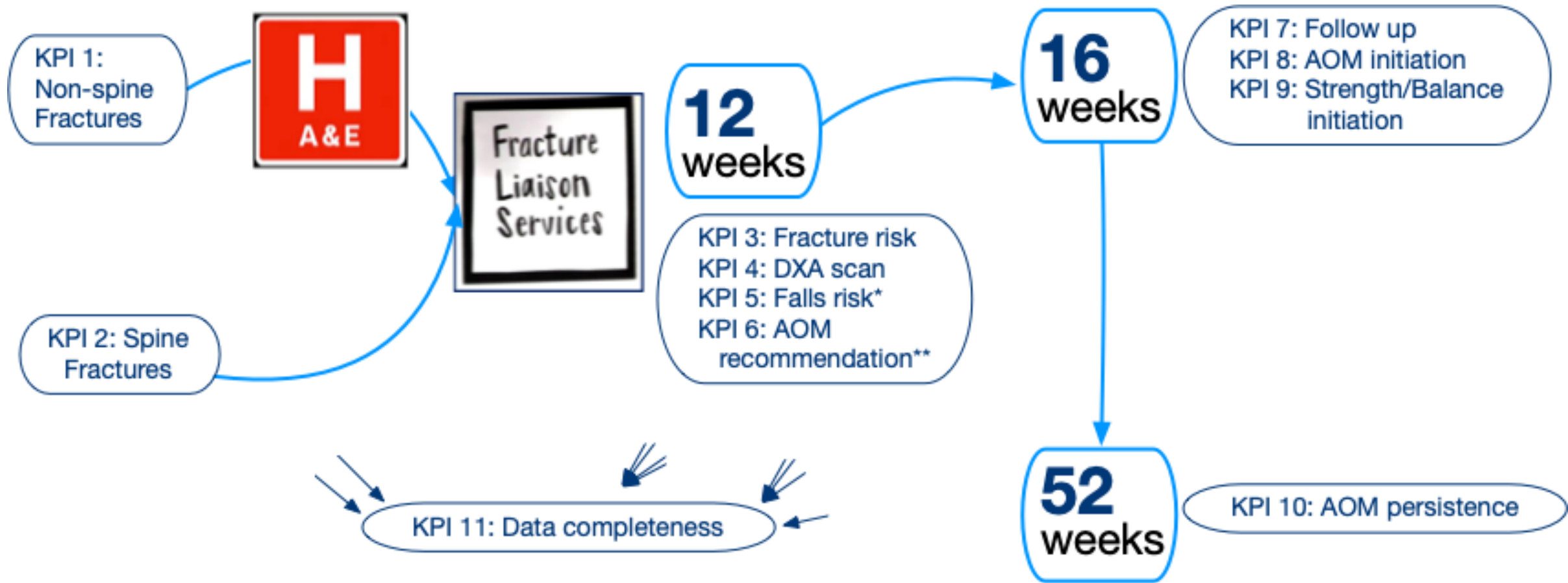
Key performance indicators at patient level

- Show the current performance for key FLS steps
- Prioritise what to improve
- Understand how to improve

FLS = Complex clinical pathway



How to measure if an FLS is working?

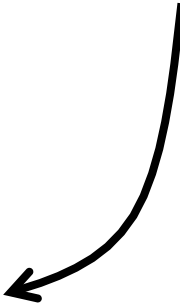




Number of non-spine fractures submitted

Expected local case load

- Local audit
- Population data
- X5 Hip fracture admissions





Number of Index spine fractures submitted

Local Hip fracture admissions

Require different pathway
Clinical vs. Reported vs. Opportunistic radiological
Local audit, Population data, Hip fracture admissions
Will be high in year 1 then reduce
75% of hip fractures

fracture diagnosis to assessment less than 12 weeks

All submitted patients



Imminent fracture risk is high
Upto 50% of re-fractures within 2 years

fracture diagnosis to DXA less than 12 weeks

All submitted patients



Does every patient need a DXA to start therapy
Over 75 yr
Over 65 with hip or spine
FRAX

Falls assessment

All submitted patients



Falls risk
Falls cause
Local/ regional/ national recommendations

Recommended Anti-osteoporosis Medication

All submitted patients

Calcium and vitamin D therapy alone is not enough



Recorded monitoring within 16 weeks of fracture

January	Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	31			
	Jan 01: New Year's Day Jan 15: MLK Day						

February	Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28			
	Feb 14: Valentine's Day Feb 18: President Day						

March	Sun	Mon	Tue	Wed	Thu	Fri	Sat
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	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	31
	Mar 30: Good Friday						

April	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30					
	Apr 01: Easter Sunday						

2018 Calendar Template © calendartemplates.com

All patients recommended
anti-osteoporosis therapy

Low adherence – initiation of recommendations
Imminent risk of fracture is high



STRENGTH & BALANCE



Strength
Flexibility
Balance
Confidence

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Strength/ balance started by 16wk post fracture

KPI 8

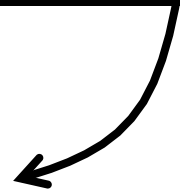
All patients recommended anti-osteoporosis therapy

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Jan 01: New Year's Day Jan 15: M.L. King Day						

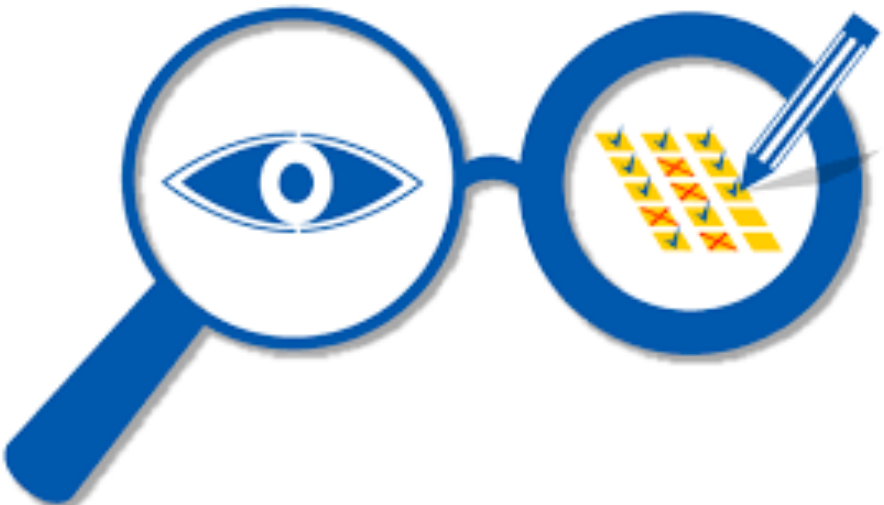
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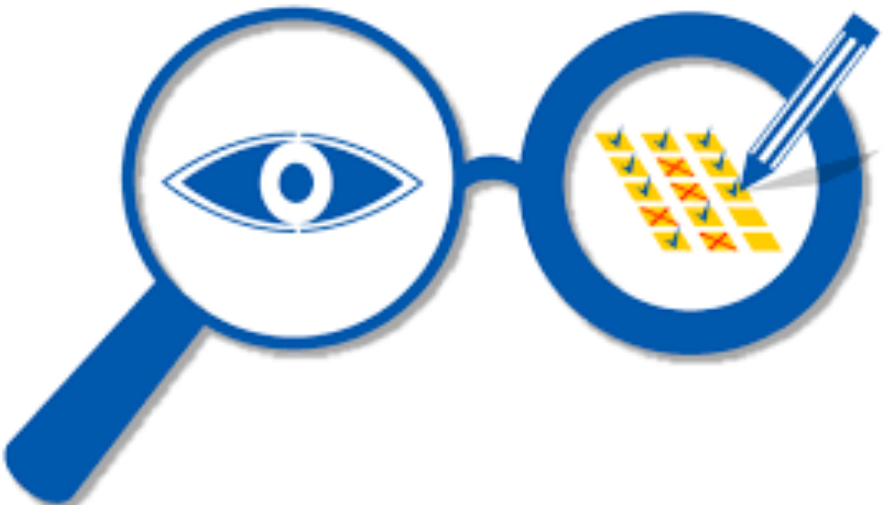
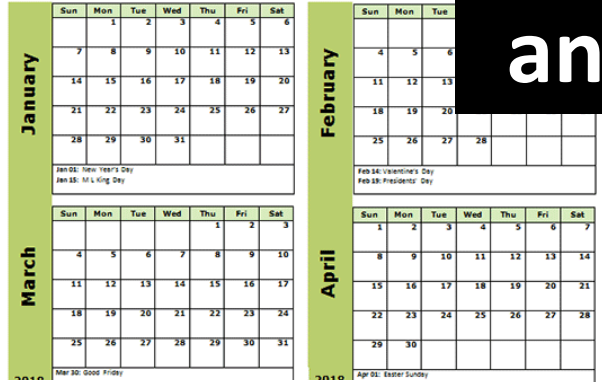
Evidence based exercise is needed
May exclude hip fracture patients
Restrict to those aged 75+ years



Anti-osteoporosis medication started by 16wk post fracture

All patients recommended anti-osteoporosis therapy

Re-fracture risk high
Oral therapy take time to reduce fracture risk



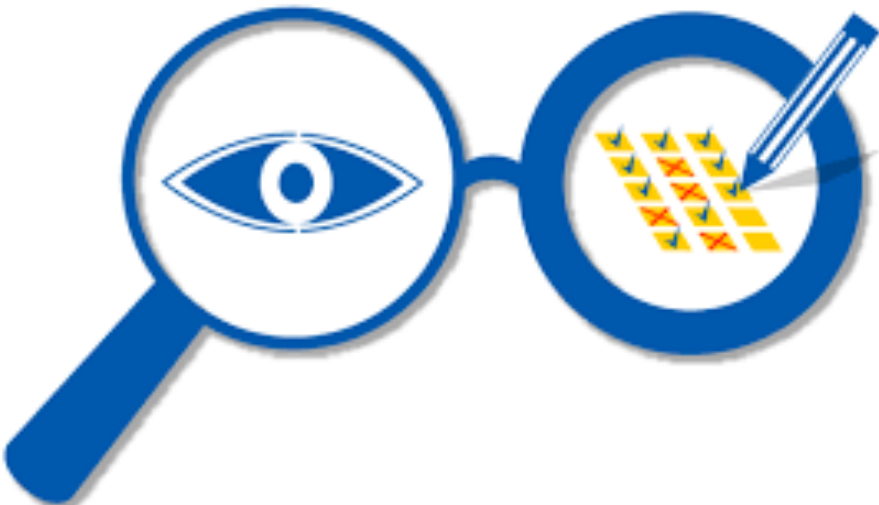
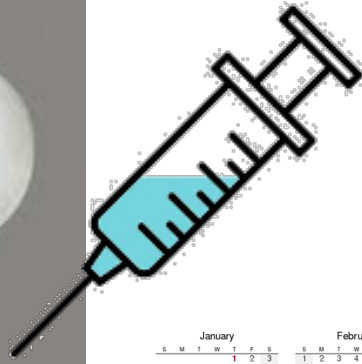
Anti-osteoporosis medication 52wk post fracture

All patients recommended
anti-osteoporosis therapy

Measuring adherence is challenging in real world

setting

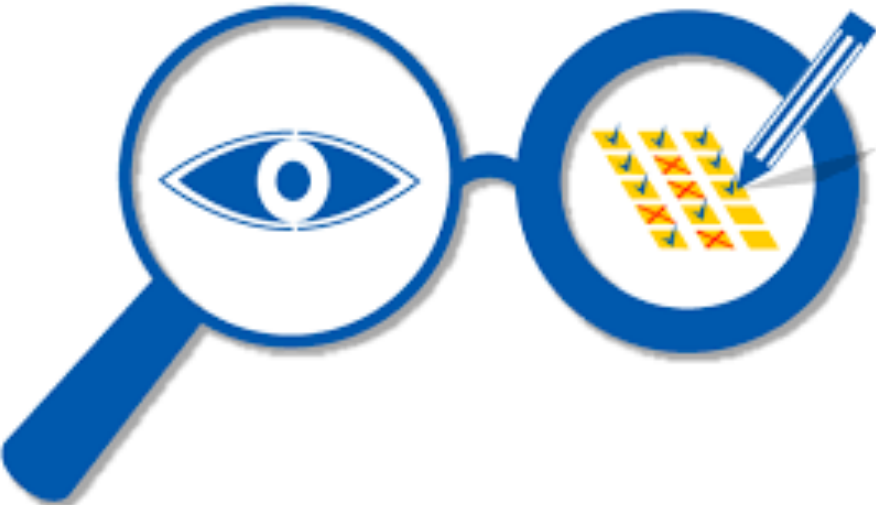
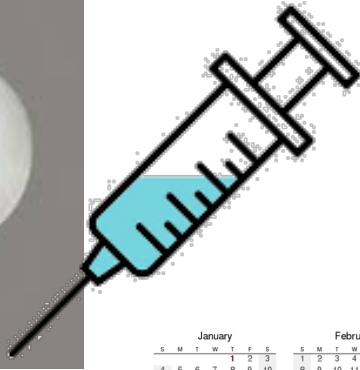
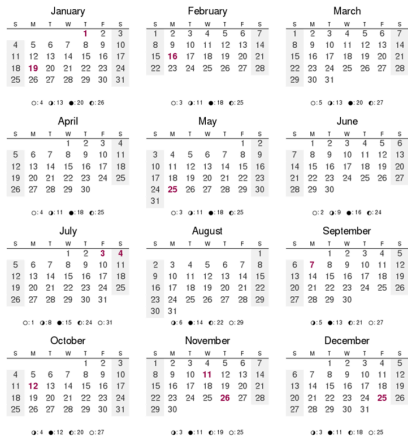
Includes patient report, prescription, clinical review



Number of KPI with >80% complete data

10 KPI

Without good quality data, benchmarking is pointless



Indicator Standards: nothing is 100%

- < 50%



- 50-80%



- >80%



AN FLS needs to achieve
this level to be
effective