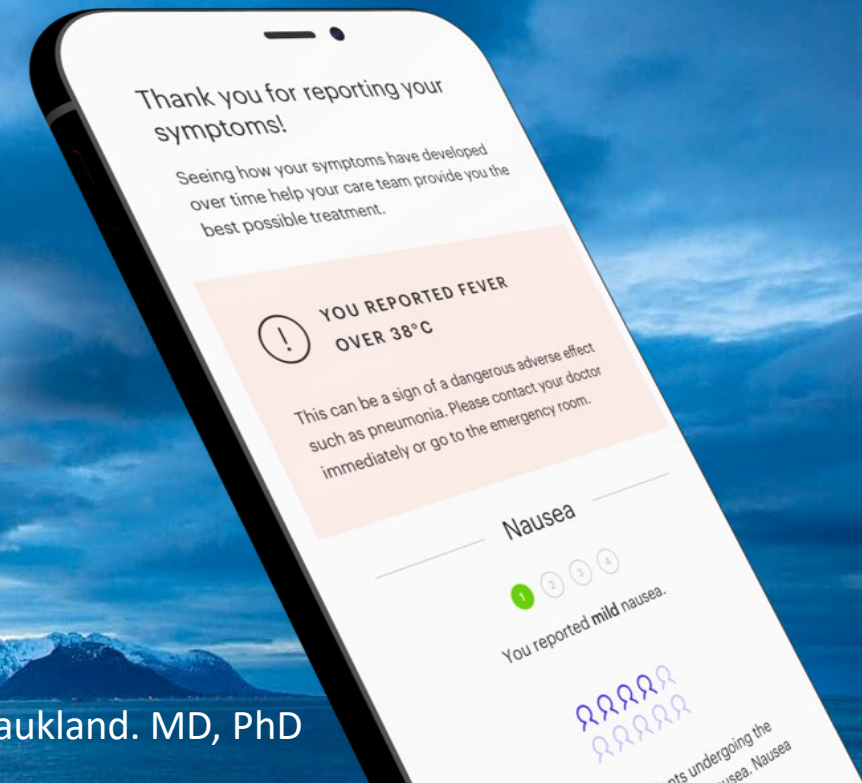


Implementing e-PRO follow-up of cancer patients treated with immunotherapy for safer cancer care



Ellinor Christin Haukland. MD, PhD

Background

- Cancer patients experience twice the rate of adverse events (AEs) compared to other patients, 13 % vs 25 %^{1,2}.
- New systemic anticancer treatments causes different types of AEs.
- Incidence of severe AEs^{3,4}
 - Combinations of immunotherapies 55 %
 - Monotherapy 16 %

1. Haukland EC. et. al., Acta Oncologica 2017
2. Haukland EC. et. al., BMJ Open Qual 2019
3. Xing P. et al., BioMed Central Ltd.; 2019.
4. Larkin J. et al., NEJM 2015

Involving patients to prevent harm

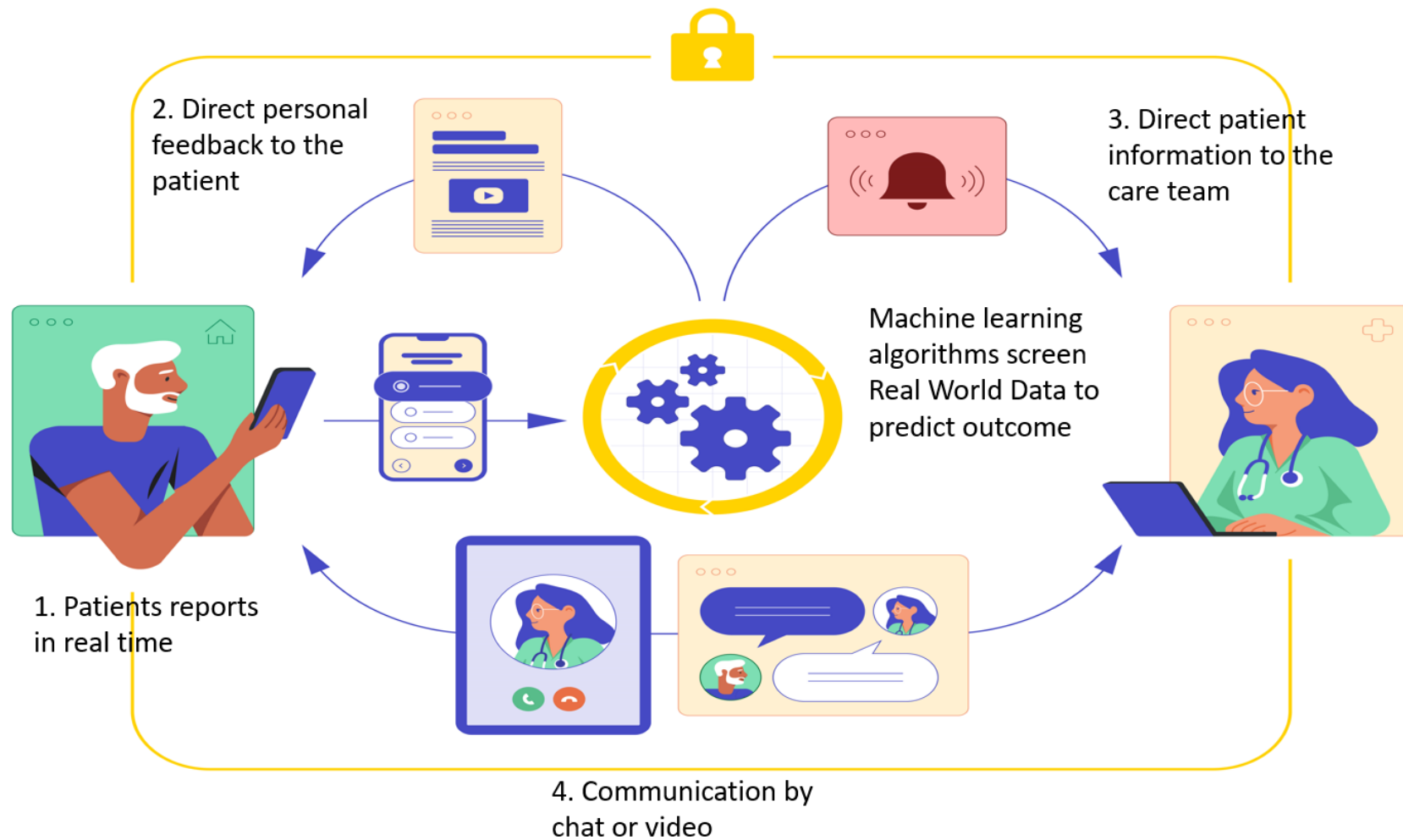
Patient reported outcomes (e-PROs)^{1,2}

- Discover side effects and deterioration earlier
- Improve quality of life
- Increase survival 5-7 months
- Reduce admissions
- Security to patients, less anxiety, depression, pain?



Symptoms reported through e-PRO correlates with clinical studies³

1. Basch E. et. Al., J Clin Oncol 2016
2. Aapro M, et. Al. Support Care Cancer. 2020
3. Livanainen S. et al., J Cancer Res Clin Oncol 2019

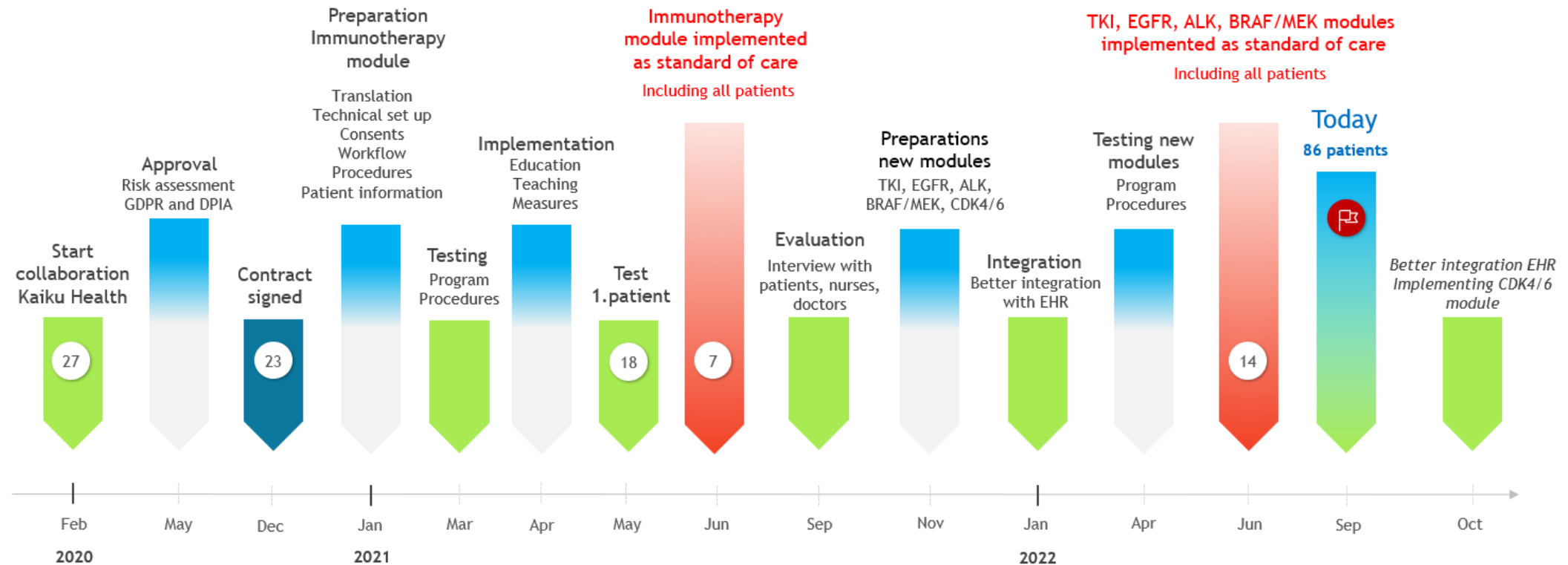


Kaiku
HEALTH



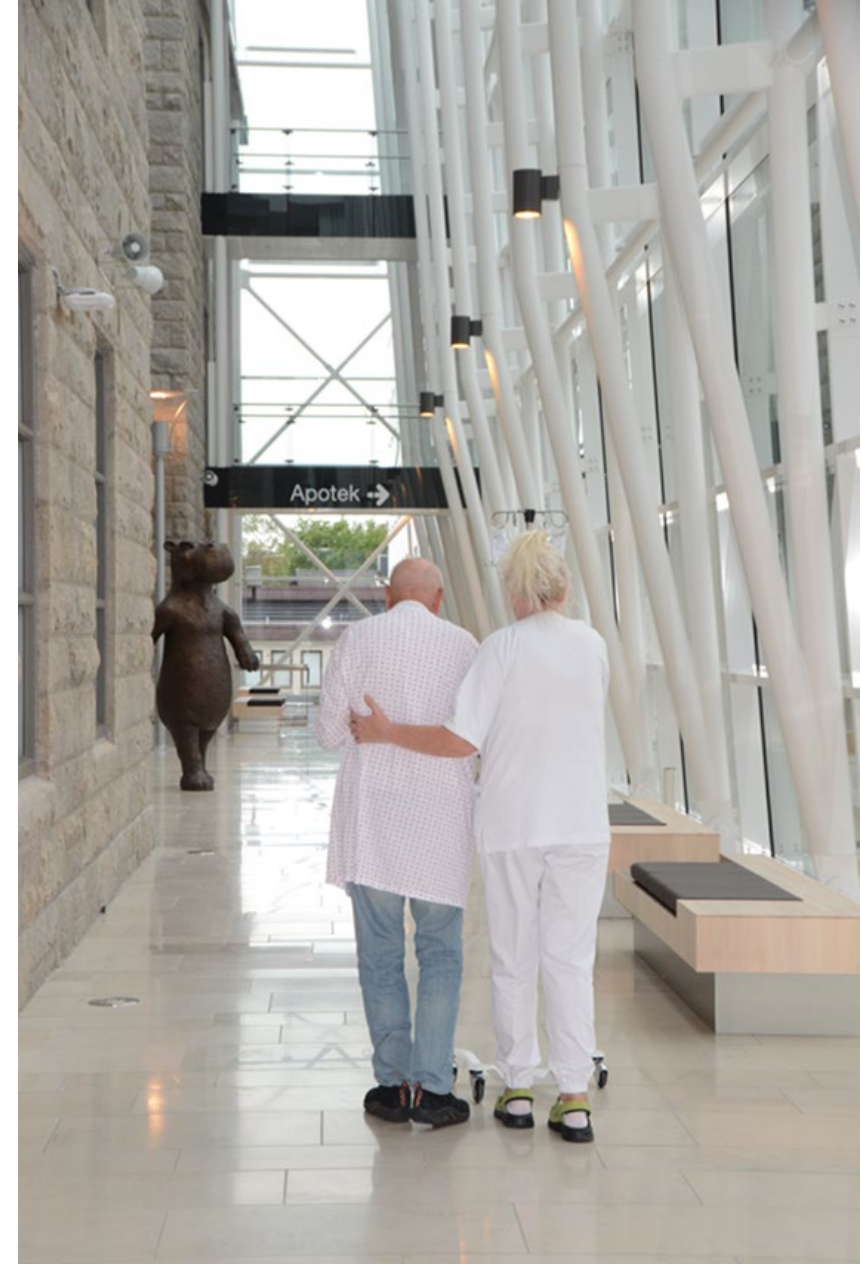
Video of our journey

Implementing Kaiku Health as standard of care



Patients included by 01.09.22

	Number of patients
Age (<i>min - max</i>)	47 - 85
Gender	
Male	44
Female	42
Diagnosis	
Pulm	48
Melanoma	15
Kidney	4
Urotel	3
Colon/rectal	6
Gastric	2
Liver	4
ENT	4
Setting	
Neoadjuvant	2
Adjuvant	11
Palliative	73
Treatment	
Immun mono	42
Immun IPI/nivo	4
immun + chemo	29
immun + Bevacizumab	4
BRAF/MEK	3
EGFR/ALK	4
Total number of patients	86

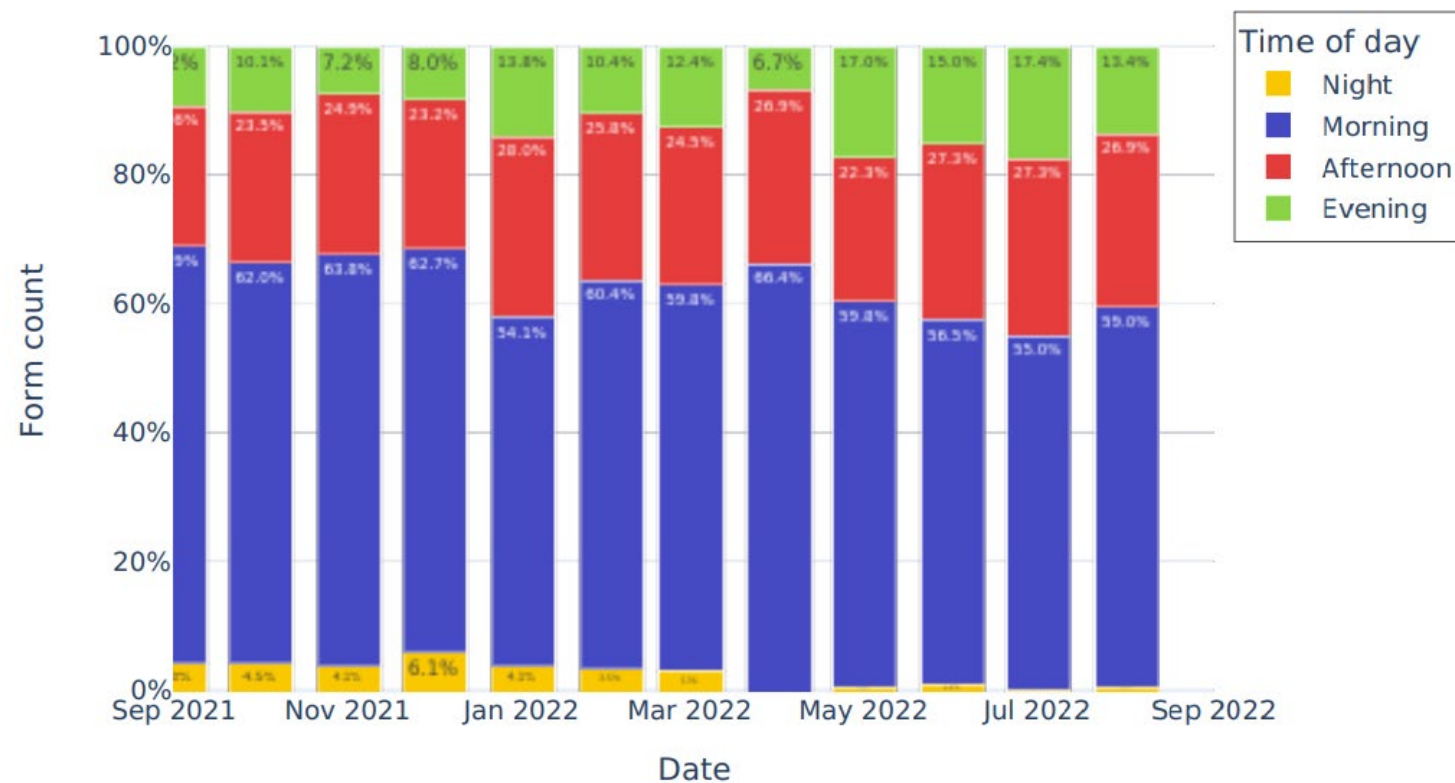


Feedback from patients

It feels safe to know that my care team monitors how I am doing while at home.

Quote patient

Filled forms by submission time of day on monthly level



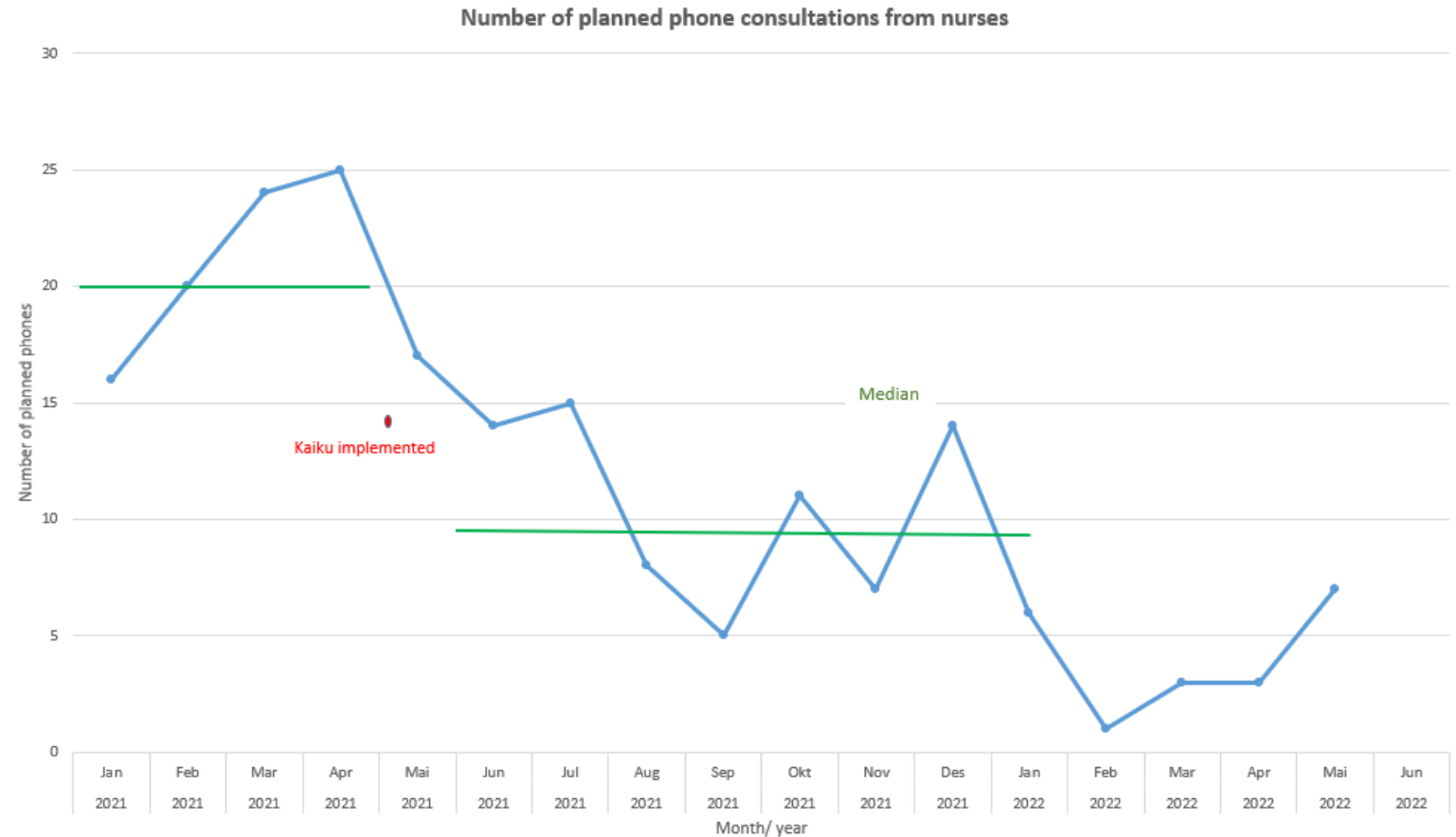
It is good to sit in peace and quiet and fill in the questions when it suits me. Then it is easier to answer what I really feel.

Quote patient

- Freedom
- Feel safe
- Support
- Easier contact
- User friendly

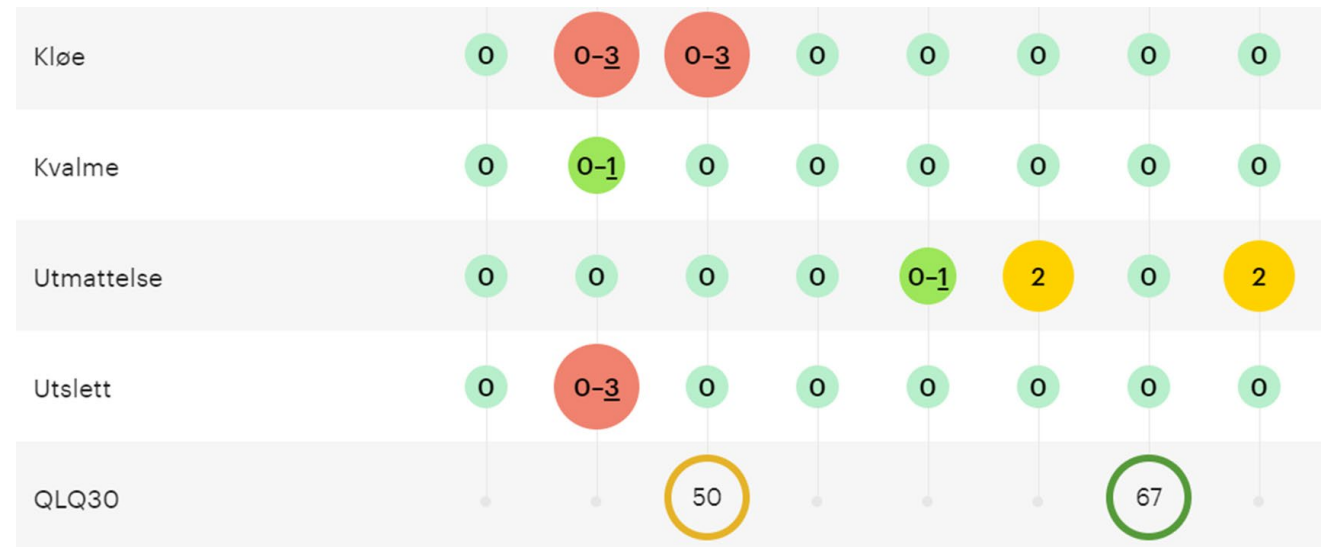
Clinical practice

- Less consultations and planed phone calls
- More efficient flow at the infusion clinic



Everyday clinical practice

- Follow weight, BP/pulse at home
- Regular quality of life measure (QLQC30)
- Follow symptoms over time
- Prevent symptoms from developing in to severe adverse events.



Closer surveillance of symptoms and QoL

Everyday clinical practice – Decision support



10 symptomer er skjult, fordi pasienten ikke rapporterte å ha dem i dette tidsrommet. [Vis alle symptomer.](#)

Metastatic colon cancer
– MSI high



Everyday clinical practice – Decision support



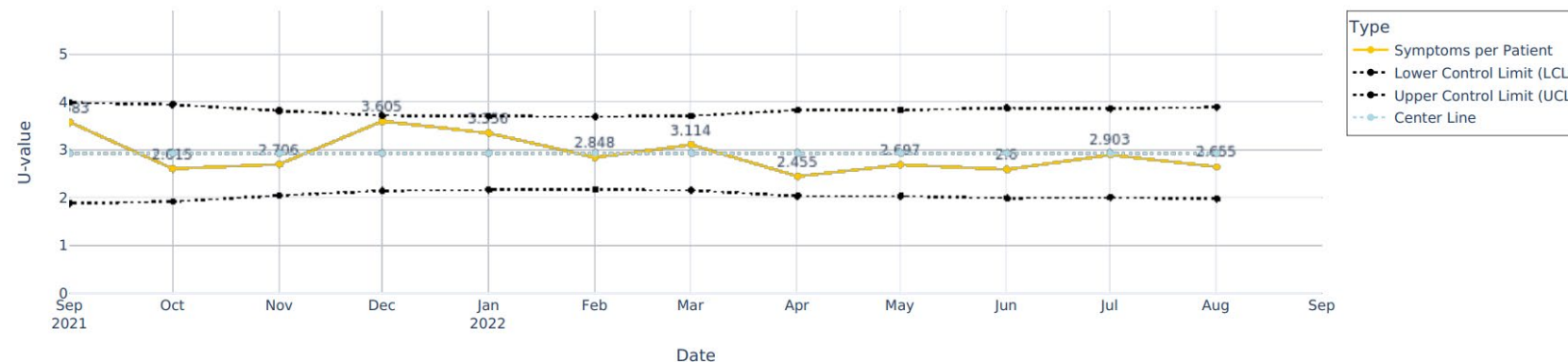
9 symptomer er skjult, fordi pasienten ikke rapporterte å ha dem i dette tidsrommet. [Vis alle symptomer.](#)

Metastatic NSCLC



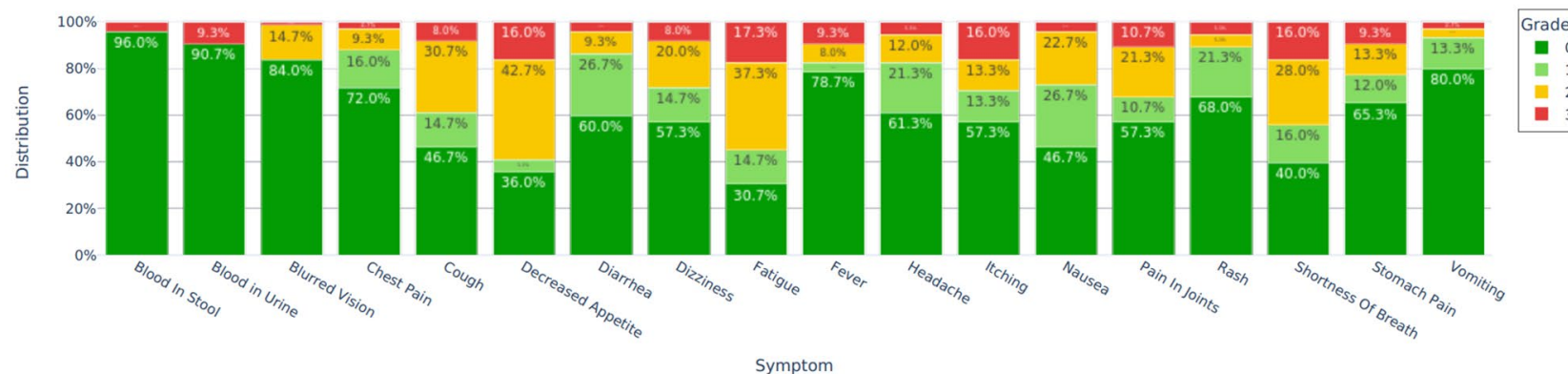
Incidence of symptoms – all grades

Symptom u-chart with grades 1, 2, and 3 on monthly level



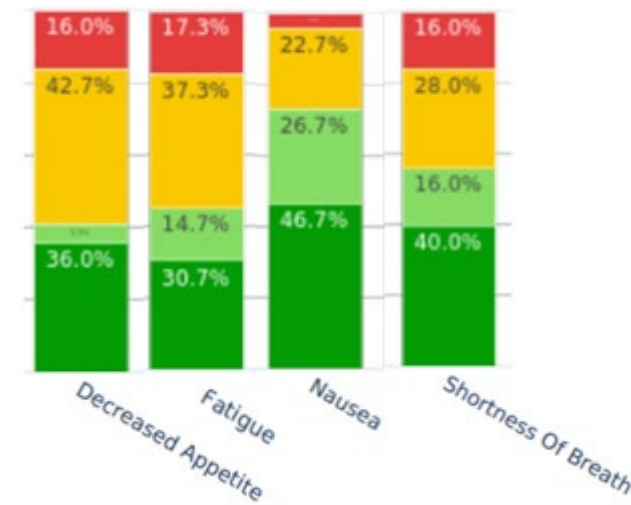
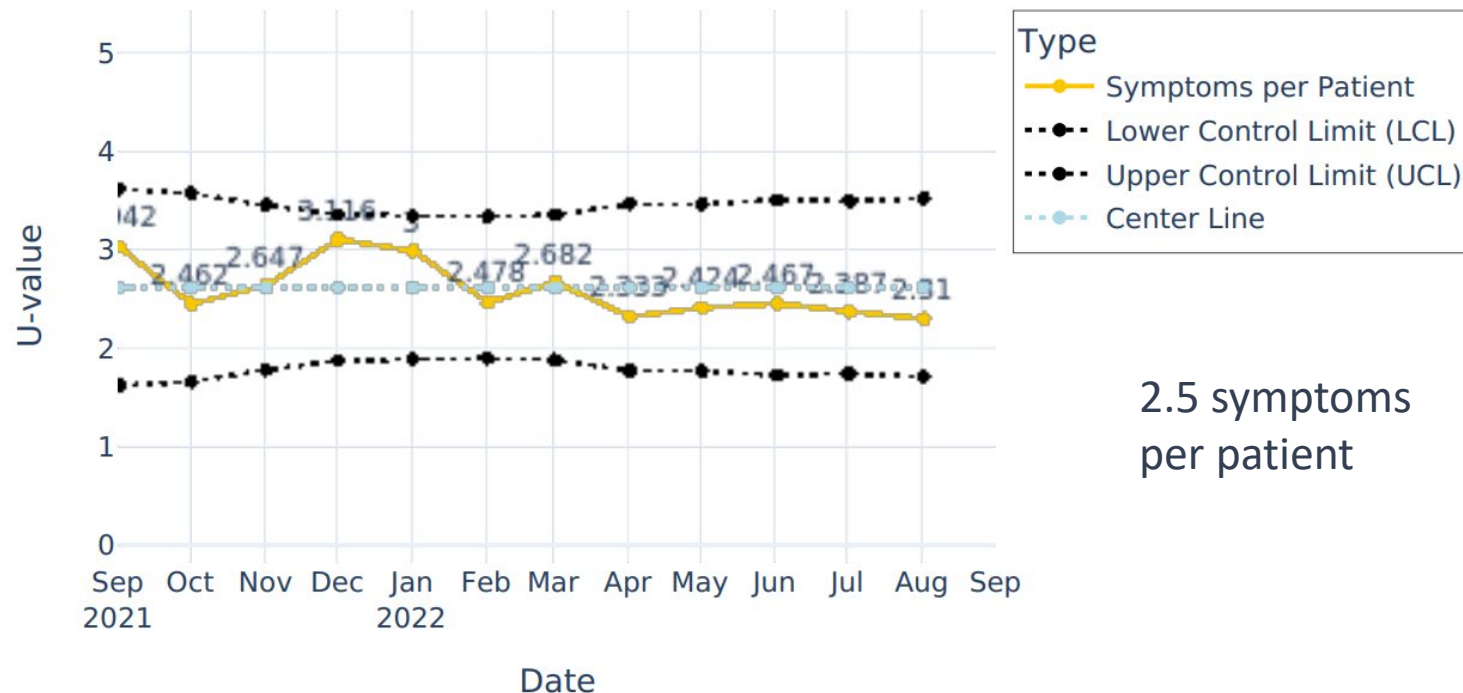
2.8 symptoms
per patient

Distribution of the worst symptom grade reported by each patient



Incidence of mild symptoms – grad 1 and 2

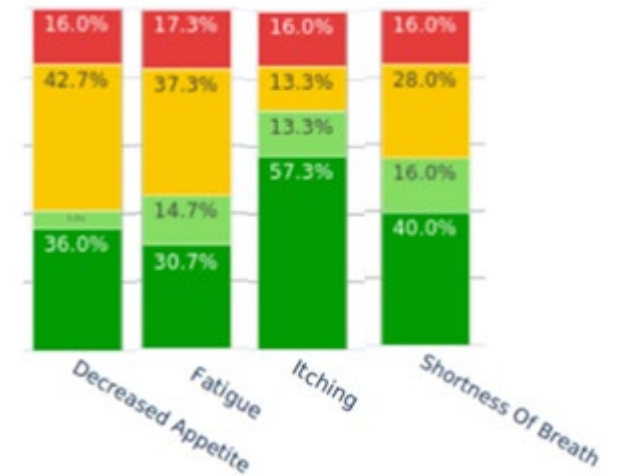
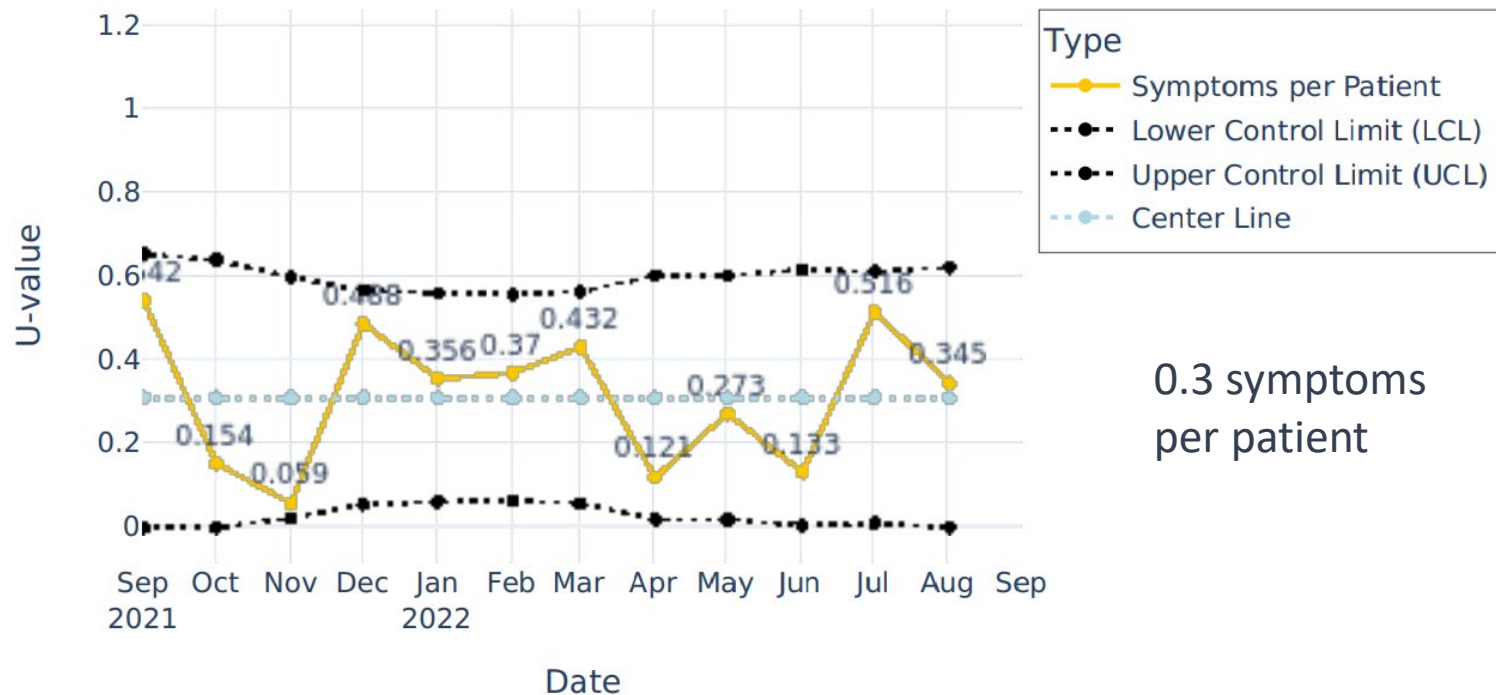
Symptom u-chart with grades 1 and 2 on monthly level



Fatigue, decreased appetite, nausea and shortness of breath are the most common less severe symptoms.

Incidence of severe symptoms – grad 3

Symptom u-chart with grade 3 on monthly level



Fatigue, decreased appetite, itching and shortness of breath are the most common adverse symptoms.



Conclusion

- Shift in mindset from reactive to a proactive way of reacting to symptoms and patient's needs
 - enables immediate response to prevent potentially serious AEs
- Good patients satisfaction, feel safe and enhance involvement
- For healthcare personnel
 - makes clinical work more efficient
 - provides real time decision support





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