
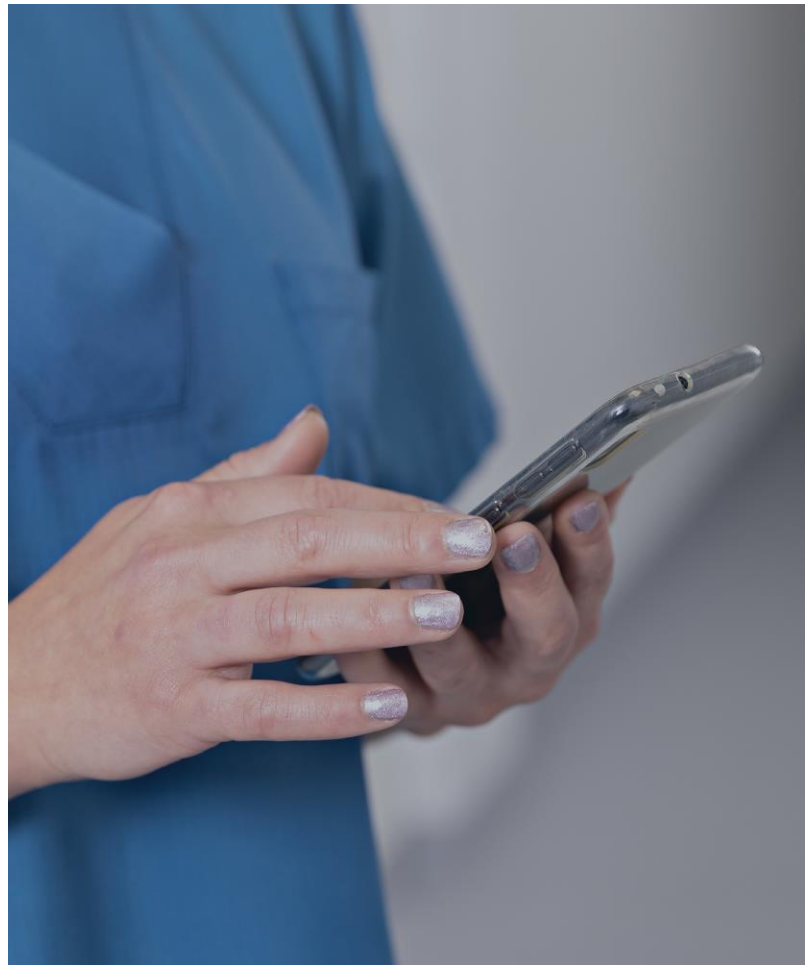

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Nordic Proof breakfast meeting in Oulu, Finland
19th Oct 2021
Mikko Savola, CEO, Monidor

Advances in Remote IV Therapy Monitoring


90% get IV therapy
70% gravity based
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Problems due to inaccurate infusion fluid therapy

Complications[1,4]

Longer hospital stay[1,2,3]

Increased mortality[5]

[1] Clin Med (Lond) 2007 Oct;7(5):482-5
[2] Ann Surg 2016 Mar;263(3):502-10
[3] Proc Nutr Soc 2010;69:488-98
[4] Anesthesiology 2005; 103:25–32
[5] BMC Nephrol 2017 Feb;18(1):45

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This is REAL

Problem

Innovation

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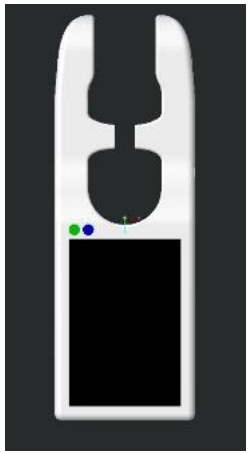
Innovation evolution

2014	2015	2016	2018	2020	2021	2022
						
Idea			CE 0598	CE 0598		

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Why New Innovation?

Patient Safety

Time Savings

Work Flow

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Monidor Effectiveness Study: Methods

- Follow-up questionnaires to nurses using Monidor remote IV therapy monitoring as part of hospital trial
- 12 departments in 6 Finnish hospitals
  - coverage approx. 1M patients
- Questionnaire topics:
  - IV infusion amounts
  - Routine room visits avoided
  - Earlier detection of infusion-related problems
  - Time savings
- Statistical analysis
  - partner ESiOR Oy
  - Outlier/blank responses detection
  - Outcomes:
    - Mean number of events avoided/problems detected earlier per shift
    - Mean time savings per shift
  - Comparisons:
    - Across departments
    - Across shifts (morning, evening, night)
  - Multivariate modelling
    - Generalised linear regression investigating the relation between time savings and events

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Monidor Effectiveness Study: Preliminary Results

ESIOR

- N=152 replies (i.e., shifts)
- 11 blank responses deleted

Results per shift	Mean	SD	IQR
Infusions	2.27	1.16	1 – 3
– using Monidor	1.66	0.89	1 – 2
Routine visits avoided	2.06	1.38	1 – 3
– in isolation rooms	0.58	0.76	0 – 0
End of infusion detected	1.34	1.05	1 – 2
Risk of blockage detected	0.30	0.76	0 – 0
Unusual speed detected	1.30	1.23	0 – 2
Other problem detected	0.48	1.01	0 – 0
Time saved (minutes)	5.04	10.1	0 – 8

- Statistically significant differences between hospital departments
- Differences across shifts not quite statistically significant
- Time savings regression (min):

Coefficient	Mean	SE	P-value
(Intercept)	-1.35	1.68	0.422
Visit avoided	2.43	0.78	0.002
End of infusion detected	2.33	0.98	0.019
Risk of blockage, unusual speed, other problem detected	-0.69	0.39	0.084

- Conclusion: Monidor break-even point for time savings if approx. 0.56 visits can be avoided.

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Monidor Effectiveness Study: Implications

- E.g., in a department with 3 daytime, 3 evening and 2 night nurses using Monidor - monthly results:*

415 routine room visits avoided

326 ends of infusion detected

74 impending cases of line blockage could be avoided

22 hours saved time for acute care

€ 641€/mon Material related savings
630€/mon Nurse time-related savings

*A user interface model was developed to aid hospital decision-makers in evaluating the potential impact of Monidor Solution


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Visit our website: www.monidor.com
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