

Arbryf.

Ta bilo

GNOSCO Daniel Eliasson

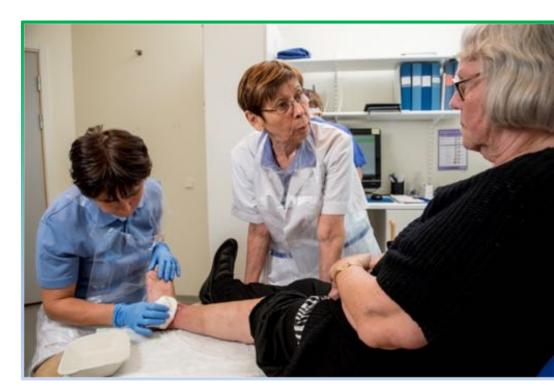
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The Swedish national quality registry for hard-to-heal leg, foot and pressure ulcers

Registry of Ulcer Treatment (RUT)

- Leg, foot and pressure ulcers
- 150 parameters
- Registration and follow-up
- Data base for research and comparison
- Best practice & education
- National guidelines





Registrations

Approx 1000 registrations per year

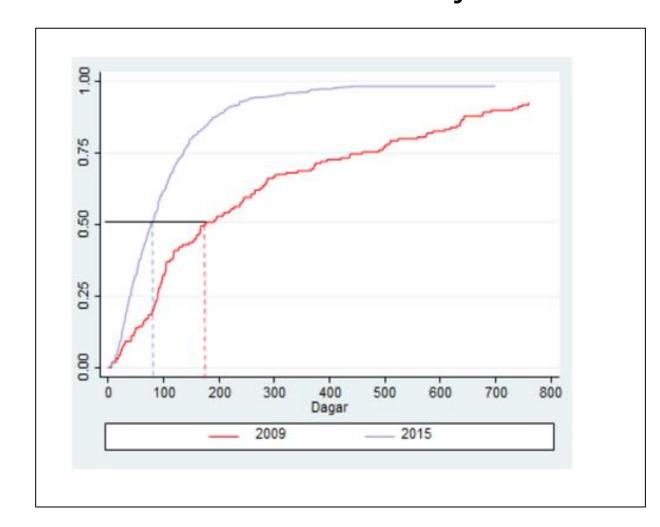
Total registrations: 9000

Municipalities – 18% Primary care - 40% Hospital care - 42%

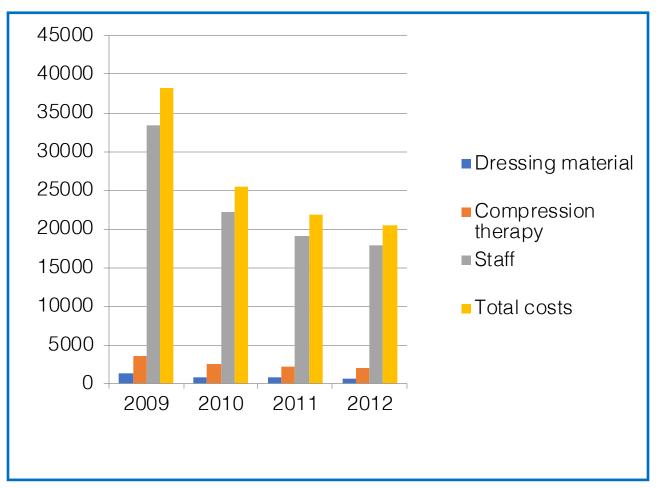
Blekinge Wound Healing Center County of Blekinge



Significant reduction of ulcer healing time 175 to 74 days



Significant reduction of treatment costs



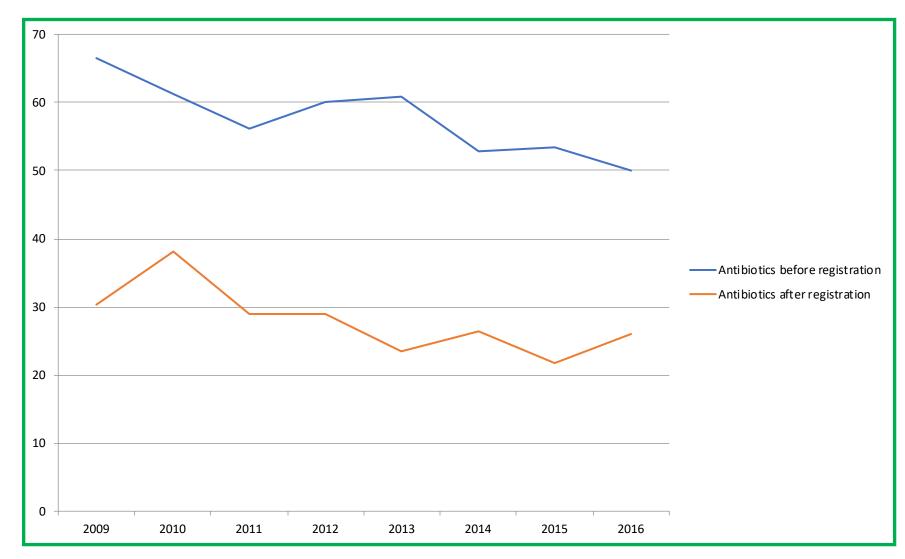
Ref:

Öien RF, Forssell H, Ragnarson Tennvall G. Cost consequences due to reduced ulcer healing times - analyses based on the Swedish Registry of Ulcer Treatment.

Int Wound J. 2015 Jun 30. doi: 10.1111/iwj.12465. [Epub ahead of print]

Öien RF. Mall för omhändertagande minskade kostnader för svårläkta sår. Läkartidningen. 2015;112:DL7I Lakartidningen.se 2015-07-24

Antibiotic treatment before and after registration in RUT 2009 - 2016



Diabetes and ulcers in RUT



Number of registered patients with diabetes and foot- or leg ulcers

1/10 2015 - 1/10 2018

- 601 patients
- 743 ulcers

Total in the registry during same period

- 1980 patients
- 2527 ulcers



Ulcer healing time

- Healing time all patients with diabetes and foot ulcer
 - 196 days
- Ulcers with neuropathic etiology
 - 254 days
- Ulcers with arterial etiology
 - 253 days

Selection of Publications

Öien RF, Ragnarson Tennvall G. Accurate diagnosis and effective treatment of leg ulcers reduce prevalence, care time and costs. J Wound Care 2006;15:259-262.

Ragnarson Tennvall G, Hjelmgren J, Öien R. The cost of treating hard-to-heal venous leg ulcers: results from a Swedish survey. World Wide Wounds http://www.worldwidewounds.com/2006/november/Tennvall/Cost-of-treating-hard-to-heal-venous-leg-ulcers.html

Öien RF, Negative Pressure Wound Therapy. World Wide Wounds December 2010, Www.worldwidewounds.com.

Oien RF, Akesson N. Bacterial cultures, rapid strep test, and antibiotic treatment in infected hard-to-heal ulcers in primary care. Scand J Prim Health Care 2012 Dec;30(4):254-8.

Oien RF, Akesson N, Forssell H. Assessing quality of life in patients with hard-to-heal ulcers using the EQ-5D questionnaire. J Wound Care 2013 Aug;22(8):442-7.

Rut F Öien, Henrik W Forssell. Ulcer healing time and antibiotic treatment before and after the introduction of the Registry of Ulcer Treatment: an improvement project in a national quality registry in Sweden. BMJ Open 2013, 3:e003091. doi:10.1136/bmjopen-2013-003091.

Öien RF, Weller CD. The Swedish national quality Registry of Ulcer Treatment (RUT): How can "RUT" inform outcome measurement for people diagnosed with venous leg ulcers in Australia? Wound Practice & Research 2014;22(2):74-77

Butler E, Oien RF, Lindholm C, Olofsson TC, Nilson B, Vasquez A. A pilot study investigating Lactic acid bacterial symbionts from the honeybee in inhibiting human chronic wound pathogens. Int Wound J 2014, Sep 8.doi:10.1111/iwj.12360.

Akesson N, Oien RF, Forssell H, Fagerström C. Ulcer pain in patients with venous leg ulcers related to antibiotic treatment and compression therapy. Br J Community Nurs 2014, Sep;19(9 Suppl):S6-S13. doi:10.12968/bjcn.2014.19.Sup9.S6

Harding K, et al. Simplifying venous leg ulcer management. Consensus recommendations. Wounds International 2015. www.woundsinternational.com

Öien RF, Forssell H, Ragnarson Tennvall. Cost consequences due to reduced ulcer healing times - analyses based on the Swedish Registry of Ulcer Treatment. Int Wound J. 2016 Oct; 13(5):957-62.

Pokorna A, Öien RF, Forssell H, Lindholm C. International cooperation for prevention and healing of pressure ulcers is challenged by the lack of national registries. Cesk Slov Neurol N 2016; 79/112 (Suppl 1): 20-24

Wickström HL, Öien RF, Fagerström C, Anderberg P, Jakobsson U, Midlöv P. Comparing video consultation with inperson assessment for Swedish patients with hard-to-heal ulcers: registry-based studies of healing time and of waiting time. BMJ Open. 2018 Feb 15;8(2):e017623. doi: 10.1136/bmjopen-2017-017623

National Virtual Center of Excellence

- Difficult patients/ulcers
- Equal care
- Share knowledge



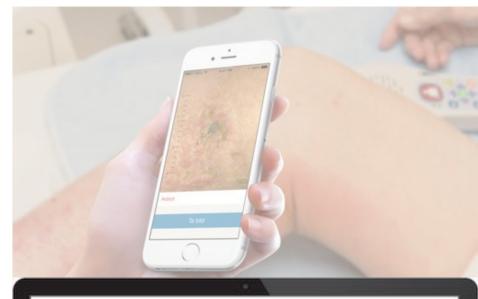
Can a decision support system help?

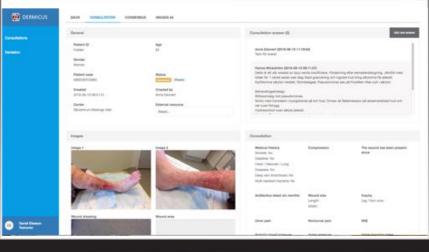
- Identify as soon as possible get fast treatment
- Facilitate multi-disciplinary collaboration
- Sometimes lack of competence locally

 Al functionality and data supported advice in the future

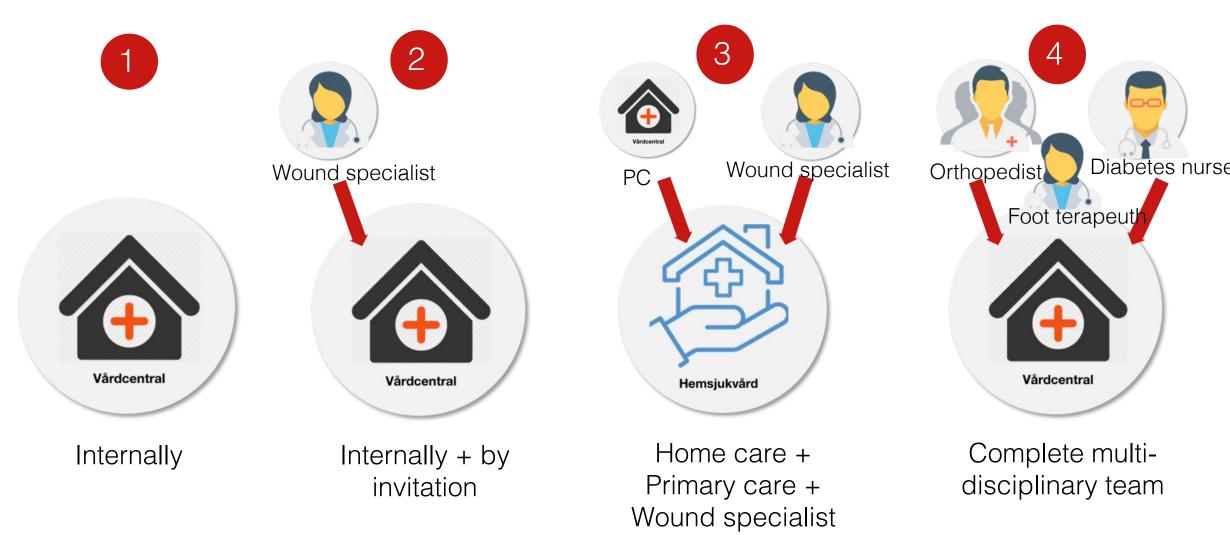
Digital Decision Support System

- To be used during treatment
- CE-certified platform & mobile app
- Easy and secure way of collect data & photos
- Educational features
- Facilitates multidisciplinary collaboration
- Platform for Center of Excellence

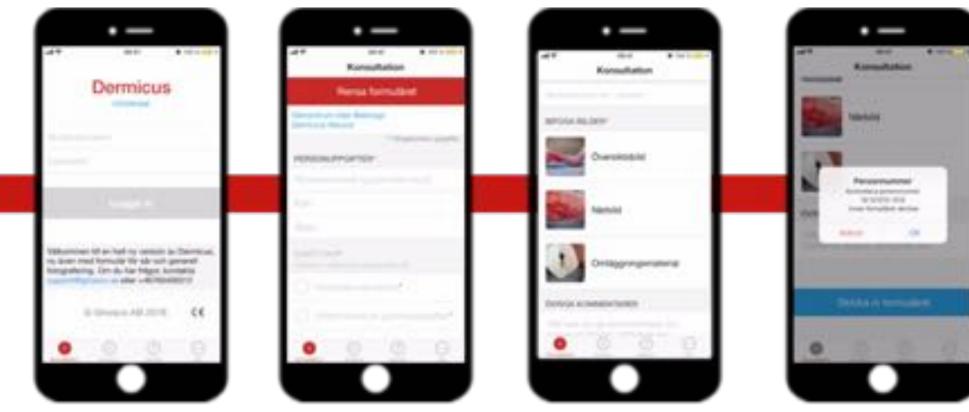




Trying different scenarios today



Secure Mobile application



Login

Enter patient-ID and ulcer information

Photograph ulcer and dressing material

Send and store securely, and share with other specialists

Overview

ERMICUS

Consultations

Deviation

Case number *	Status ¥	Product *	Patient ID	Created *	Created by ¥	Center *	Consultation report	Consensus
5639CAB63461		Wound	Hidden	2018-07-02	AD	Sårcentrum Blekinge Vilat		
606638300066		Wound	Hidden	2018-09-10	PT	Norrtälje Norra VC TioHundra		
580284F83963	Assessed.	Wound	Hidden	2018-10-26	DK .	HC Krokom	2018-10-26	
SBA4A4DE3063	Answert	Wound	Hidden	2018-09-21	EK	HC Krokom	2018-00-24	
58C-494E83963		Wound	Hidden	2018-10-15	EP	Vians Värdoetral		
56D2C5803963	Americal	Wound	Hidden	2018-10-26	EK	HC Krokom	2018-10-26	
58C498D93983	New	Wound	Hidden	2018-10-15	EP	Vilans Värdcetral		
58A4AC823963	Americal	Viound	Hidden	2018-09-21	EK	HC Krokom	2018-09-21	
5885DC4C3963	No.	Wound	Hidden	2018-10-04	NA,	Testcenter		•
58C585E43963	Answerd	Wound	Hidden	2018-10-16	EK	HC Krokom	2018-10-16	
58C597E63963	Answered	Wound	Hidden	2018-10-16	DK	HC Krokom	2018-10-22	
58C5A40A3963	Americal	Vibund	Hidden	2018-10-16	EK	HC Krokom	2018-10-17	
58214E5A3963	No.	Wound	Hidden	2018-06-13	NA	Testcentor		
5897781A3963	Amered	Wound	Hidden	2018-09-11	EP	Viane Värdoetrai	2018-09-11	
589778083963	Assessed	Wound	Hidden	2018-09-11	EK .	HC Krokam	2010-09-17	

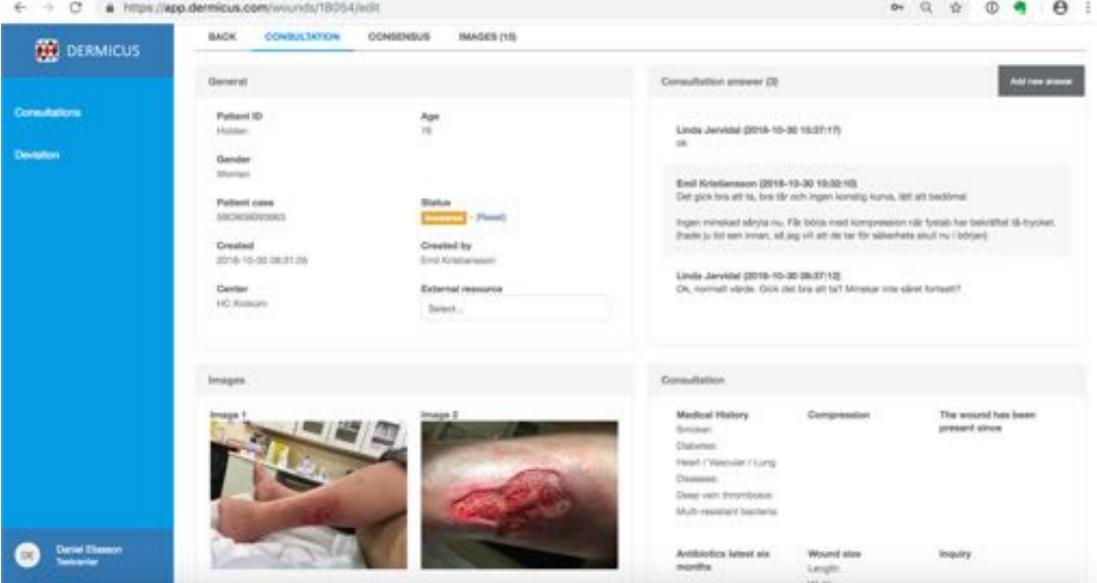


Daniel Elisseon

lastowner

All in one page

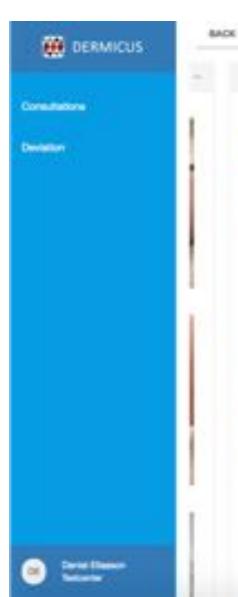
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Multi-disciplinary dialog



Change over time







Hound dressing



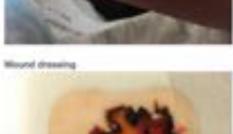
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Wound streaming



Close up image







Seeking collaboration for further studies and development



Arbryt

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