

Supplementary table S1

Patients invited on touch screen (sub-study A) stratified by diagnosis and reply¹

	RA			AxSpA		
Invited on touch screen	n=749			n=203		
Reply, n (%)	Accepted	Declined	p	Accepted	Declined	p
	333 (44.5)	416 (55.5)		95 (46.8)	108 (53.2)	
Women, n (%)	277 (83.2)	309 (74.3)	0.003 ²	37 (38.9)	30 (27.8)	0.059 ²
Age (years), median (IQR)	60 (51-68)	61 (53-71)	0.044	46 (39-58)	43.5 (35-54)	0.035
Disease duration (years), median (IQR)	10 (3.25-16)*	11 (4-18)**	0.176	10 (5-17)	8.5 (4-16.75)	0.765
HAQ score (0-3), median (IQR)	0.625 (0.250-1.125)	0.750 (0.250-1.375)	0.275	0.250 (0.0-0.625)	0.375 (0.0-0.750)****	0.122
Patient global score (0-100 mm), median (IQR)	31 (15-63)	36 (14-60)***	0.991	27 (11-53)	34.5 (12-63.25)	0.110

¹Unless otherwise stated the p-value is calculated using Independent Mann-Whitney U test

²p-value calculated using Pearson Chi-Square test

*Missing data, n=21, **Missing data, n=17, ***Missing data, n=2, ****Missing data, n=1

Abbreviations: AxSpA, Axial Spondyloarthritis; HAQ, Health Assessment Questionnaires; IQR, Interquartile Range; RA, Rheumatoid Arthritis.

Supplementary table S2

Characteristics of invited patients (sub-study A), who did not complete versus completers (sub-study B)

RA	Invited but not completing		Completed		
	Missing data	Invited	Missing data	Completed	p
N		727		22	
Female, n (%)	0	570 (78.4)	0	16 (72.7)	0.525 ¹
Age (years), mean (SD)	0	59.8 (13.0)	0	59.2 (10.5)	0.838 ²
Age (years), median (IQR)	0	61 (52-70)	0	62.5 (48.8-68)	0.726 ³
Disease duration (years), mean (SD)	38	12.7 (11)	0	9.7 (9)	0.203 ²
Disease duration (years), median (IQR)	38	10 (4-17)	0	6 (2-14.8)	0.188 ³
HAQ score (0-3), mean (SD)	0	0.801 (0.673)	0	0.580 (0.499)	0.126 ²
HAQ score (0-3), median (IQR)	0	0.750 (0.250-1.25)	0	0.563 (0.219-0.750)	0.162 ³
Patient global score (0-100), mean (SD)	2	39.4 (28.2)	1	38.1 (28.9)	0.829 ²
Patient global score (0-100), median (IQR)	2	34.0 (15.0-61.0)	1	28.5 (17.0-56.5)	0.834 ³
AxSpA	Missing data	Invited	Missing data	Completed	p
N		183		20	
Female, n (%)	0	58 (31.7)	0	9 (45)	0.230 ¹
Age (years), mean (SD)	0	45.5 (12.6)	0	51.7 (12.7)	0.038 ²
Age (years), median (IQR)	0	44 (35-55)	0	53 (43.5-61.8)	0.026 ³
Disease duration (years), mean (SD)	0	13.0 (11.2)	0	9.5 (8.8)	0.176 ²
Disease duration (years), median (IQR)	0	9.0 (4.0-17.0)	0	7.5 (2.0-13.5)	0.177 ³
HAQ score (0-3), mean (SD)	1	0.446 (0.505)	0	0.356 (0.307)	0.435 ²
HAQ score (0-3), median (IQR)	1	0.250 (0.0-0.625)	0	0.375 (0.031-0.594)	0.948 ³
Patient global score (0-100), mean (SD)	0	37.1 (28.2)	0	38.1 (27.4)	0.882 ²
Patient global score (0-100), median (IQR)	0	30.0 (12.0-56.0)	0	29.5 (11.0-67.5)	0.804 ³

¹Pearson Chi-Square test, ²Independent Samples T test, ³Independent Mann-Whitney U test

Abbreviations: AxSpA, Axial Spondyloarthritis; HAQ, Health Assessment Questionnaires; IQR, Interquartile Range; RA, Rheumatoid Arthritis; SD, Standard Deviation.

Supplementary table S3

Degree of consistency between lifestyle and comorbidity answers from home and hospital (%), sub-study B

	RA (n=22)	AxSpA (n=20)	Both (n=42)	Comments (RA)	Comments (AxSpA)
Lifestyle					
Body weight	86%	75%	81%	2 pts differ 1kg 1 pt differs 89kg ¹	4 pts differ less than 1 kg
Height	86%	85%	86%	2 pts differ less than 2 cm 1 pt differs 84 cm ¹	2 pts differ less than 2 cm 1 pt differs 98 cm ¹
Weekly alcohol consumption	95%	85%	90%	1 pt differs 70 units ¹	2 pts differ with 1 unit 1 pt differs with 3 units
Exercise	86%	100%	93%	3 pts differ between "no exercise" and "cannot exercise have infirmity". 1 pt missing data (hospital)	
Current smoking including cigarettes per day	100%	100%	100%	Only current smokers (n=3)	Only current smokers (n=16)
Year of smoking cessation in previous smokers	100%	100%	100%	Only former smokers (n=10)	Only former smokers (n=8)
Comorbidities and hereditary diseases ("Has a doctor ever told you that you suffer from...?")					
Hereditary elevated cholesterol	77%	95%	86%	3 pts ² 1 pt "yes" → "no"	1 pt ²
Hypertension	95%	100%	98%	1 pt ²	
Atherosclerosis of legs	91%	95%	93%	1 pt ² 1 pt missing data (hospital)	1 pt ²
Angina pectoris	100%	95%	98%		1 pt ²
Heart attack	100%	100%	100%		
Brain haemorrhage or stroke	100%	100%	100%		
Other heart diseases	100%	95%	98%		1 pt ²
Asthma	95%	100%	98%	1 pt ²	
Chronic bronchitis	100%	100%	100%		
Tuberculosis	100%	100%	100%		
Liver disease	100%	100%	100%		
Kidney disease	95%	100%	98%	1 pt ²	
Stomach ulcer	100%	100%	100%		
Inflammatory bowel disease	100%	95%	98%		1 pt ²
Metabolic disorder	100%	85%	93%		3 pts ²
Diabetes	100%	100%	100%		
Osteoporosis	100%	100%	100%		
Multiple sclerosis	100%	100%	100%		
Psoriasis	91%	90%	90%	2 pts ²	2 pts ²
Depression	100%	95%	98%		1 pt ²
Total	97%	96%	96%		

¹Obvious error at hospital

²Differ between "don't know" and "yes"/"no"

Abbreviations: AxSpA, Axial Spondyloarthritis; Pt, patient; RA, Rheumatoid Arthritis.

Supplementary figure S1

Touch screen invitation to participate in the project in Danish, sub-study A

Person: *****- 

I dag har du besvaret spørgsmål vedrørende din gigt på en skærm på hospitalet. Vi er ved at undersøge muligheden for at svare hjemmefra i stedet. Ønsker du at blive kontaktet for at modtage yderligere information om at afprøve det nye system: skriv dit telefonnummer på skærmen OG tryk JA nedenfor.

1	2	3
4	5	6
7	8	9
0		Slet

 Hvis du ikke er interesseret, tryk NEJ. 

Translation: Today you have answered questions about your arthritis on a screen at the hospital. We are currently investigating the possibility of answering these question from home instead. Do you want to be contacted to receive further information on testing the new system: Write your cell phone number on the screen AND press YES below.

If you are not interested, press NO.

Supplementary figure S2

Automatic text message reminder to patients in Danish

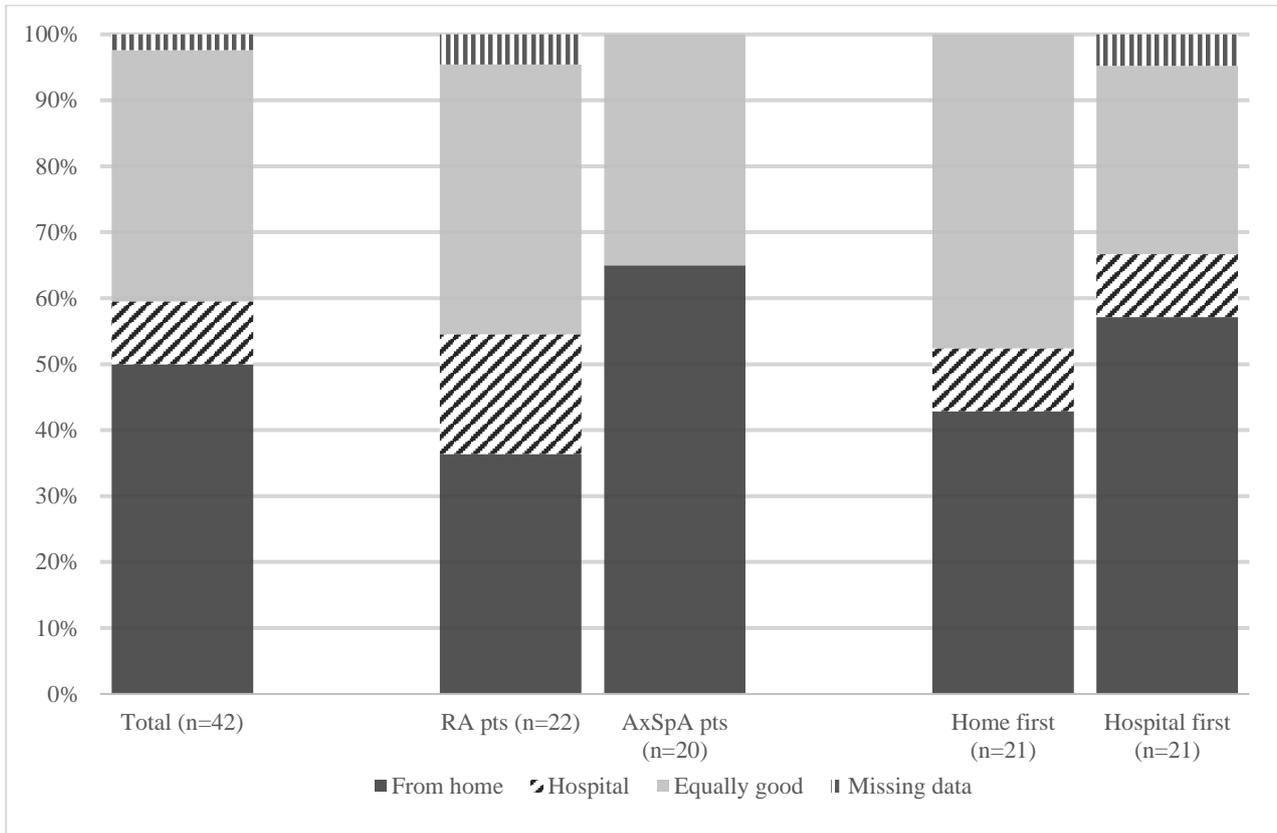
i dag 18.00

Vedr. DANBIO hjemmefra-projekt: Det er [i morgen](#), at du skal afprøve DANBIO på din computer. Brug dette link: <https://wayf.zitelab.dk>. Senest i [overmorgen](#) skal du på Glostrup Hospital (kl. 8-15) og taste på DANBIO-skærmen. God fornøjelse.

Translation: Regarding the DANBIO from home project: Tomorrow you are going to test DANBIO from your own computer. Use this link: <https://wayf.zitelab.dk>. No later than the day after tomorrow you should test the DANBIO touch-screen from Glostrup Hospital (between 8 AM and 3 PM). Enjoy.

Supplementary figure S3

Patient answers regarding preferred method of data entry stratified by diagnosis and whether data entry occurred from home or at hospital first, sub-study B.



Abbreviations: AxSpA, Axial Spondyloarthritis; pts, patients; RA, Rheumatoid Arthritis.