

# Evaluation of a prototype electronic personal health record for patients with idiopathic thrombocytopenic purpura

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**Background:** Patients with rare diseases often lack information about the disease itself and appropriate health care, leading to poor quality of life. Personal health records provide health information which can then be shared between multiple health care providers. Personal health records may also offer a tool for capturing patients' reported outcomes, thus enhancing their empowerment and improving communication with health care professionals. We conducted a pilot study to evaluate the usability of Sanoia, a freely accessible personal health record, which was customized for patients with the rare disease, idiopathic thrombocytopenic purpura (ITP).

**Methods:** The Sanoia interface was expanded with ITP-specific tools. A prospective study was conducted at the referent center to evaluate the usability of this new interface (referred to here as the "tool") by patients. Forty-three patients were randomized into groups to use or to not use the tool. Its use was evaluated by a specific questionnaire and by surveying individual patient adherence profiles. Evaluation of health-related quality of life using the ITP patient assessment questionnaire, was performed at baseline and after 1, 3, and 6 months via postal mail.

**Results:** The groups were similar at inclusion in terms of characteristics, including global quality of life. During the study period, the tool was used to update the personal records of 19/28 patients (68%), with a median of two connections to the tool (range 1–12) plus access by various health care professionals (n = 22). In addition, 15/19 (78%) patients used the "personal notes" section at least once. We observed no significant changes in quality of life between patients with or without the tool during the study period.

**Conclusion:** This pilot study demonstrates the good usability of the new customized Sanoia interface for patients with ITP. Additional studies will increase its usability further, and its interface could be adapted for use with other rare chronic diseases.

**Keywords:** electronic personal health records, rare diseases, idiopathic thrombocytopenic purpura

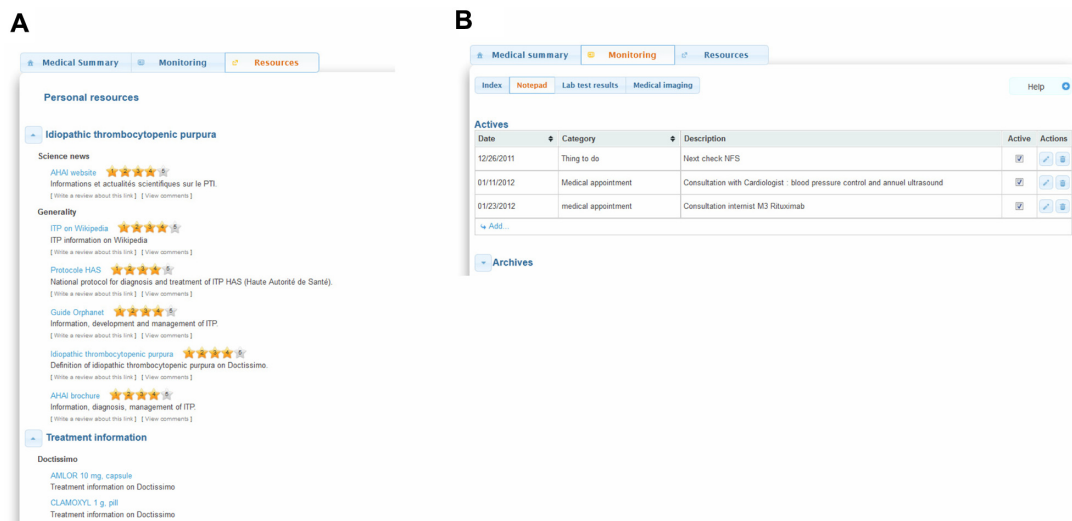
## Introduction

Worldwide, there are an estimated 7000 different rare chronic diseases (ie, affecting <1/2000 people).<sup>1</sup> In addition to their frequent severity and/or absence of validated treatments, patients with rare diseases often lack information about the disease itself and its appropriate care, which ideally should combine many different spheres of expertise.

Adult immune thrombocytopenic purpura (ITP) is a rare chronic autoimmune disorder characterized by antibody-mediated platelet destruction, often leading to bleeding symptoms that may range from mild bruising and mucosal bleeding to severe

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**Figure 2** Sanoia options in the customized interface for patients with ITP (the tool). The existing interface of Sanoia was expanded with ITP-specific tools, including addition of a link to ITP-related web resources validated by physicians (A), and a section for personal (bloc) notes for symptoms, medications, or intercurrent events (B).  
**Abbreviation:** ITP, immune thrombocytopenic purpura.

The secondary aim was to evaluate its potential impact on quality of life. To avoid any bias caused by selection of patients who might be more confident with the use of computers, patients with ITP hospitalized at the center between 2000 and 2010 were randomly and directly contacted by telephone to participate in the study. For this pilot study, we planned to enroll between 10 and 15 patients per group (see below). Eligible patients were men or women aged between 18 and 75 years with a diagnosis of chronic ITP according to the American Society of Hematology guidelines,<sup>3</sup> permanent web access, and no neuropsychiatric conditions. After providing their written consent, the patients enrolled were randomized into three groups.

Groups 2 and 3 had personal health records initiated at the center during their first visit. Basic instructions concerning the use of the study tool were provided by resource personnel, and all patients received a printed manual (see Supplementary data). Those assigned to group 3 were also able to contact resource personnel (by phone and/or email) throughout the study period. The usability of the tool was evaluated by a specific questionnaire (including use of the tool by the patient alone or with a health care professional) and, more objectively, by surveying the number of individual times the patients connected with the tool, either to update personal records or to use it with a health care professional. After 3 months, the usage profiles were determined as previously reported.<sup>5</sup>

Briefly, patients were classified as nonadherent, adherent, or very adherent if they connected on <2, 2, or ≥3 occasions with the tool, respectively (not including access

by professionals). Demographic and medical data, as well as evaluation of health-related quality of life, using the ITP patient assessment questionnaire<sup>4</sup> were recorded at inclusion and at 1, 3, and 6 months via postal mail (see questionnaire in the Supplementary data). Group 1 comprised controls and had no access to the tool, and these patients were only evaluated for quality of life.

## Results

Forty-three of 72 patients who were contacted (15 were not interested and 14 did not fulfill the inclusion criteria), were enrolled and randomized into three groups ( $n = 15$ ,  $n = 14$ , and  $n = 14$ , respectively, in groups 1, 2, and 3). At inclusion, clinical and biological characteristics, as well as global quality of life, were similar between the groups (Tables 1 and 2).

Results concerning the usability of the tool during the study period are reported in Table 2. Data reported by patients in the questionnaires were in complete agreement with the number of connections to the tool recorded during the study period. The tool was used to update personal records by 19/28 patients (68%), with each of the 19 patients making a median of two connections (range 1–12). In month 3, heterogeneous usage profiles were observed between patients from groups 2 and 3, which were classified as nonadherent (less than two connections), adherent (two connections), or very adherent (at least three connections) in 28%, 40%, and 32%, respectively. Except for being older, no other differences were observed between very adherent and nonadherent patients (mean age 57 versus 44 years respectively,  $P = 0.04$ ) with regards to their characteristics at inclusion.

**Table 1** Patient characteristics at enrolment

	Group 1 (n = 15)	Groups 2 and 3 (n = 28)
Age (years)	44 (19–67)	49 (21–73)
Gender (female), %	73.3	75
Mean duration of ITP, (years)	13	9
Splenectomy, %	33.3	28.6
Chronic treatments,* n	7	8
Steroids	3	5
TPO agonists	1	2
Other**	3	1
Platelets (Giga/L)	120 (4–450)	160 (16–453)

**Notes:** Unless otherwise specified, results are given as their medians (range).

\*Intercurrent treatments (ie, short corticosteroid therapy initiated for a flareup of the disease) were not taken into account. \*\*disulone, hydroxychloroquine.

**Abbreviations:** ITP, immune thrombocytopenic purpura; TPO, thrombopoietin.

During the study period, patients used the tool with various health care professionals: general practitioners (n = 11), dentists (n = 2), nurses (n = 1), specialists (cardiologist, internist, or ophthalmologist, n = 5), or physiotherapists (n = 3). Notably, patients did not report any refusal from health care professionals to use information from the tool during a consultation. In addition, 15/19 (78%) used the personal notes section at least once for various reasons (to report symptoms or medical events, to write questions to ask their doctor).

Of note, patients from group 3 had no contact with resource personnel, likely because they received adequate information through the instructions provided during initiation of the tool and in its dedicated manual. During the study period, we observed no significant changes in quality of life between patients from group 2 and 3, or in patients from group 1 who did not use the tool (Table 2).

**Table 2** Usability of the study tool and impact on quality of life

	Group 1 (n = 15)	Group 2 (n = 14)	Group 3 (n = 14)
Usability of the tool			
Users*	–	19 (68%)	
Connections#	–	2 (1–12)	
Personal notes**	–	15 (78%)	
Impact on QoL###			
Overall QoL at baseline (M0)	89 (27, 100)	98 (36, 100)	92 (16, 100)
Change in QoL, baseline to M1	0 (–27, 16)	–3 (–47, 24)	–2 (–18, 27)
Change in QoL, baseline to M3	0 (–27, 33)	–20 (–42, 24)	–2 (–18, 20)
Change overall QoL, baseline to M6	–7 (–49, 7)	–13 (–56, –1)	–9 (–20, 2)

**Notes:** \*At least one connection to the tool during the study period; #Number of connections by users; \*\*at least one use of the “personal notes” section by users; ###QoL (quality of life) evaluated using the immune thrombocytopenic purpura patient assessment questionnaire (maximum score of 100).<sup>3</sup> Results are shown as the median and range.

## Discussion

The use of electronic personal health records has recently increased in spite of concerns regarding the privacy of recorded data. This first pilot study confirms the usability of a self-managed personal health record interface which was specifically customized for patients with a specific rare disease, ie, ITP. Indeed, 68% of patients used the tool effectively, and 72% of these met criteria for good and very good adherence. Also, the tool was not only used for updating the personal health record, but also during consultations with various health care professionals and to make personal notes.

The usefulness of this tool relies on patients’ understanding and using their records appropriately. The help provided directly by the hospital during initiation of the tool, as well as the creation of a specific manual to guide first users, were probably key factors in enabling its good adoption. However, we observed varying levels of usage of the tool, so additional research is needed to identify possible barriers to adoption. Interestingly, a previous study has reported increased usability of a similar tool by patients with asthma who used mobile phones instead of computers.<sup>6</sup> Sanoia have recently implemented an interface for mobile phones. Thus, future studies involving the tool could also evaluate the impact of this parameter on the usability by patients with ITP.

During the study period, we did not observe a significant impact on quality of life. This negative result may be linked to our small sample size, which precluded any statistical per protocol analyses (ie, studying the impact of quality of life only in those who could effectively use the tool). Alternatively, the impaired quality of life at inclusion of our patients was not as severe as that reported in other studies.<sup>7</sup> During the study period, none of the enrolled patients presented with a flare-up of their disease. Thus, the actual impact of the tool on patient health outcomes and well-being should be evaluated further in more patients, with other severe/active diseases, and for a longer period.

In conclusion, we found that patients with ITP, a rare disease, adapted satisfactorily to using the electronic personal health record with the Sanoia interface. Even though this study did not show a significant improvement in health-related quality of life, it has demonstrated the usability of this customized and freely accessible Sanoia interface, which could potentially be adapted for use by patients with other rare diseases.

## Acknowledgment

We thank all patients who participated in this study, as well as the physicians involved in designing the tool.

## Disclosure

Hervé Servy is the founder of Sanoia, and received a grant from Amgen to support this work. Other authors have no conflicts of interest to report.

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## Appendix

### Patient questionnaire

Surname:

Name:

ISAN:

### Physical health

#### Symptom scale

(10-point Likert scale from all the time to never)

In the past four weeks how often did you:

- Have either bruising or petechiae (broken blood vessels)?
- Have wounds or scars from blood tests, injections, or intravenous needles?
- Have blood blisters in your mouth?
- Have bleeding episodes (nose bleeds, gum bleeds)?
- Have muscle aches?
- Have cramps in your legs?

#### Fatigue/sleep scale

(10-point Likert scale from all the time to never)

In the past four weeks how often did ITP or its treatment:

- Cause you to have difficulty falling asleep at bedtime?
- Cause you to awaken during the night?
- Cause you to feel sleepy during the daytime?
- Cause you to feel physically fatigued?

#### Bother scale

In the past four weeks:

- How often did you feel physically unattractive due to bruising, scarring, wounds, or effects of ITP medications? (10-point Likert scale from all the time to never)
- Overall, to what extent have ITP and its treatment affected your physical health? (10-point Likert scale from extremely to not at all)
- Overall, how bothered have you been by the effect of ITP and its treatment on your physical health? (10-point Likert scale from extremely to not at all)

#### Activity scale

(10-point Likert scale from extremely to not at all)

In the past four weeks:

- How much have your ITP symptoms or the effects of its treatments interfered with your ability to exercise?
- To what extent has having ITP limited the types of physical or sporting activities you participate in?
- Did you participate in sport? (yes/no)
- Are you fearful of doing sport because of ITP? (yes/no)

### Emotional health

#### Psychological scale

In the past four weeks:

- How often did you feel like you have no control over your health because of your ITP or its treatments? (10-point Likert scale from all the time to never)
- How often did you feel like you were unable to manage stress because of ITP or its treatments? (10-point Likert scale from all the time to never)
- How often did you have feelings of sadness or depression because of ITP or its treatments? (10-point Likert scale from all the time to never)
- Overall, how much has ITP or its treatments affected you psychologically (mental state, emotions)? (10-point Likert scale from extremely to not at all)
- Overall, how bothered have you been by the effect that ITP or its treatments has had on you psychologically (mental state, emotions)? (10-point Likert scale from extremely to not at all)

#### Fear scale

(10-point Likert scale from extremely fearful to not at all fearful)

In the past four weeks:

- How often have you been fearful of having a bleeding episode (eg, nose bleeds, gum bleeds)?
- How fearful have you been of death or dying?
- How fearful have you been of being too far away from your doctor in case you needed medical help?
- How fearful have you been about getting an infection?
- How fearful have you been of needing to have emergency surgery (due to concerns about bleeding during surgery)

#### Overall quality of life

In the past four weeks:

- Overall, to what extent has ITP and its treatments affected your quality of life? (10-point Likert scale from extremely to not at all)
- Overall, how bothered have you been by the effect of ITP and its treatments on your quality of life? (10-point Likert scale from extremely to not at all)
- I have made significant changes to my lifestyle because I have ITP (10-point Likert scale from strongly agree to strongly disagree)
- My ITP prevents me from doing things in life that I want to do (10-point Likert scale from strongly agree to strongly disagree)



- My ITP prevents my spouse, partner, or family members from doing things in life that they want to do (10-point Likert scale from strongly agree to strongly disagree).

### Social activity

In the past four weeks:

- How often has having ITP limited your ability to participate in social activities? (10-point Likert scale from all the time to never)
- How often have you avoided social activities to limit your exposure to infection? (10-point Likert scale from all the time to never)
- How bothered were you by what people might think about your bruising or scarring? (10-point Likert scale from extremely to not at all)
- To what extent have you been unable to lead a normal social life because of your ITP? (10-point Likert scale from extremely to not at all)

### Women's reproductive health (to be completed by women only)

Menstrual symptom subscale (10-point Likert scale from extremely to not at all)

Thinking about your last period:

- How bothered were you by heavier bleeding than before having ITP?
- How bothered were you by bleeding for more days than before having ITP?
- How bothered were you by more pain than before having ITP?

Fertility subscale (10-point Likert scale from extremely to not at all)

- How much has having ITP made it less likely that you would get pregnant?
- How much has having ITP made it less likely that you would give birth?

- How much has having ITP made it less likely that you would adopt?

Work (10-point Likert scale from extremely to not at all, with a not applicable option)

Since you were diagnosed:

- To what degree has ITP negatively interfered with your choice of careers?
- How much has ITP negatively interfered with your ability to get a promotion at your job?
- How much has ITP negatively interfered with your relationship with coworkers?
- How fearful have you been of losing your job because of your ITP?

### Supplementary questions

Since your last ITP-PAQ:

- How many platelet tests have you have had done on average? (six-point Likert scale from <1 to >4)
- Have you travelled more than 200 km far away from your residence? (yes/no)
- Are you fearful of travelling because of ITP? (yes/no)
- Have you travelled abroad? (yes/no)
- Are you fearful of travelling abroad because of ITP? (yes/no)

### Your medical or paramedical consultations since your last questionnaire

Date

Type of caregiver

Consultation concerning ITP ?(yes/no)

Have you shown your Sanoia tool? (yes/no)

Has your Sanoia tool been useful to the consultation? (yes/no)

Comments

## QUESTIONNAIRE MEDICAL à 1 mois



à renvoyer au 15/03/2012

Nom : SERVY  
Prén. : Hervé  
ISAN : H76868527T

par enveloppe pré timbrée jointe  
ou par courrier simple au Dr CHICHE  
Hopital de la Conception, Médecine Interne  
137 bd Baille, 13005 Marseille

## Etat physique

## Echelle des symptômes

*Durant les 4 dernières semaines, avez-vous eu souvent :*

- 1 Des hématomes ou pétéchies
- 2 Des plaies ou stigmates à cause d'analyses sanguines, injections ou aiguilles pour IV?
- 3 Des bulles hémorragiques dans la bouche?
- 4 Des saignements (du nez, gencives, etc.)?
- 5 Des douleurs musculaires?
- 6 Des crampes dans les jambes?

Jamais ———&gt; Souvent ———&gt; Tout le temps

0 1 2 3 4 5 6 7 8 9


## Echelle de fatigue / sommeil

*Durant les 4 dernières semaines, le PTI ou son traitement vous a-t-il fréquemment :*

- 7 Causé des difficultés pour vous endormir?
- 8 Réveillé durant la nuit?
- 9 Rendu somnolent durant la journée?
- 10 Fait vous sentir fatigué physiquement?

Jamais ———&gt; Souvent ———&gt; Tout le temps

0 1 2 3 4 5 6 7 8 9


## Echelle de contrainte/ennui

*Durant les 4 dernières semaines:*

- 11 Vous êtes vous senti souvent peu attirant à cause des hématomes, plaies, cicatrices ou effets du traitement?

Jamais ———&gt; Souvent ———&gt; Tout le temps

0 1 2 3 4 5 6 7 8 9

--	--	--	--	--	--	--	--	--	--

- 12 D'une manière générale, jusqu'à quel point le PTI et son traitement ont-ils un impact sur votre état physique?
- 13 D'une manière générale, avez-vous été tracassé par l'impact du PTI et de son traitement sur votre état physique?

Pas du tout ———&gt; Extrêmement

0 1 2 3 4 5 6 7 8 9


## Echelle des activités

*Durant les 4 dernières semaines:*

- 14 Jusqu'à quel point les symptômes du PTI ou les effets du traitement ont-ils interféré sur votre capacité à faire des activités?
- 15 Jusqu'à quel point le PTI limite-t-il votre participation à des activités physiques ou sportives?

Pas du tout ———&gt; Extrêmement

0 1 2 3 4 5 6 7 8 9


15 bis Avez-vous pratiqué du sport ?

OUI NON

--	--

15 tri Est-ce que pratiquer du sport est une source d'inquiétude vis-à-vis du PTI ?

--	--

## Etat émotionnel

## Echelle psychologique

*Durant les 4 dernières semaines:*

- 16 Avez-vous souvent senti ne plus avoir le contrôle de votre santé à cause de votre PTI ou de son traitement?
- 17 Jusqu'à quel point ne vous êtes vous pas senti capable de gérer le stress à cause de votre PTI ou de son traitement?
- 18 Jusqu'à quel point vous êtes vous senti triste ou déprimé à cause de votre PTI ou de son traitement?

Jamais ———&gt; Souvent ———&gt; Tout le temps

0 1 2 3 4 5 6 7 8 9


- 19 D'une manière générale, jusqu'à quel point le PTI ou son traitement vous affecte-t-il psychologiquement (mental, émotion)?
- 20 D'une manière générale, jusqu'à quel point avez-vous été ennuyé à cause de l'impact psychologique (mental, émotion) du PTI ou de son traitement?

Pas du tout ———&gt; Extrêmement

0 1 2 3 4 5 6 7 8 9


## Echelle des peurs

*Durant les 4 dernières semaines:*

- 21 Jusqu'à quel point avez-vous eu peur d'avoir des saignements (de nez, gencive, etc.)?
- 22 Jusqu'à quel point avez-vous eu peur de la mort ou de mourir?
- 23 Jusqu'à quel point avez-vous été angoissé à l'idée d'être loin de votre médecin en cas de problème médical?
- 24 Jusqu'à quel point avez-vous eu peur d'avoir une infection?
- 25 Jusqu'à quel point avez-vous eu peur d'avoir recours à la chirurgie d'urgence?

Pas du tout craintif ———&gt; Extrêmement craintif

0 1 2 3 4 5 6 7 8 9




## QUESTIONNAIRE MEDICAL à 1 mois page 2



## Qualité de vie globale

*Durant les 4 dernières semaines:*

- 26 D'une manière générale, comment le PTI ou son traitement affecte-t-il votre qualité de vie?
- 27 D'une manière générale, jusqu'à quel point avez-vous été ennuyé à cause de l'impact du PTI ou de son traitement sur votre qualité de vie?

Pas du tout						Extrêmement			
0	1	2	3	4	5	6	7	8	9

- 28 J'ai changé ma façon de vivre à cause du PTI.
- 29 Mon PTI m'empêche de faire certaines choses dont j'ai envie.
- 30 Mon PTI empêche mon conjoint, mes partenaires ou les membres de ma famille de faire des choses qu'ils aimeraient faire.

Pas du tout d'accord						Extrêmement d'accord			
0	1	2	3	4	5	6	7	8	9

## Activité sociale

*Durant les 4 dernières semaines:*

- 31 Le PTI vous a-t-il souvent limité dans vos participations à des activités sociales?
- 32 Avez-vous souvent évité de faire des activités sociales pour limiter votre exposition aux infections?

Jamais						Souvent				Tout le temps			
0	1	2	3	4	5	6	7	8	9	10	11	12	

- 33 Jusqu'à quel point êtes-vous ennuyé par ce que les gens peuvent penser des hématomes ou cicatrices liés au PTI?
- 34 Jusqu'à quel point, avez-vous été incapable de mener une vie sociale normale à cause de votre PTI?

Pas du tout						Extrêmement			
0	1	2	3	4	5	6	7	8	9

## Cycle menstruel (pour les femmes uniquement)

*Echelle des symptômes menstruels*  
*En pensant à vos dernières règles:*

- 35 Jusqu'à quel point êtes-vous embarrassée d'avoir des saignements plus abondants qu'avant votre PTI?
- 36 Jusqu'à quel point êtes-vous embarrassée parce qu'elles durent plus de jours qu'avant votre PTI?
- 37 Jusqu'à quel point êtes-vous embarrassée parce qu'elles sont plus douloureuses qu'avant votre PTI?

Pas du tout						Extrêmement			
0	1	2	3	4	5	6	7	8	9

*Echelle de fertilité*  
*en général*

- 38 Jusqu'à quel point le PTI vous a-t-il rendue réticente à l'idée d'être enceinte?
- 39 Jusqu'à quel point le PTI vous a-t-il rendue réticente à l'idée d'accoucher?
- 40 Jusqu'à quel point le PTI vous a-t-il rendue réticente à l'idée d'adopter?

Pas du tout						Extrêmement			
0	1	2	3	4	5	6	7	8	9

## Activité professionnelle

*Depuis le diagnostic:*

- 41 A quel point le PTI a-t-il interféré avec vos choix de carrière?
- 42 Jusqu'à quel point le PTI a-t-il interféré de manière négative avec la possibilité d'avoir une promotion?
- 43 Jusqu'à quel point le PTI a-t-il interféré de manière négative dans vos relations professionnelles?
- 44 Jusqu'à quel point avez-vous craint de perdre votre travail à cause de votre PTI?

Pas du tout						Extrêmement			
0	1	2	3	4	5	6	7	8	9

## Question supplémentaires

*depuis votre dernier questionnaire*

- 45 Combien de Numération des plaquettes avez-vous réalisé en moyenne ? (par mois)
- 46 Avez-vous effectué des déplacements à plus de 200 km de chez vous en France ?
- 47 Est-ce que cette situation est une source d'inquiétude vis-à-vis du PTI ?
- 48 Avez-vous effectué des déplacements à l'étranger ?
- 49 Est-ce que cette situation est une source d'inquiétude vis-à-vis du PTI ?

<1					1					2					4					>4				

OUI	NON

patient : SERVY -- QUESTIONNAIRE MEDICAL à 1 mois

## page 3

(faire des copies de cette page si besoin)



## Vos consultations médicales ou para-médicales depuis votre dernier questionnaire

Date  
type de soignant (Généraliste, cardiologue, urgentiste, autre spécialités, kinésithérapeute, dentiste, infirmière, autre paramédical)


Consultation en rapport avec votre PTI ?  
Avez-vous montré votre fiche Sanoia  
Votre fiche vous a-t-elle été utile à cette consultation

OUI	NON
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Commentaires

Date  
type de soignant (Généraliste, cardiologue, urgentiste, autre spécialités, kinésithérapeute, dentiste, infirmière, autre paramédical)


Consultation en rapport avec votre PTI ?  
Avez-vous montré votre fiche Sanoia  
Votre fiche vous a-t-elle été utile à cette consultation

OUI	NON
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Commentaires

Date  
type de soignant (Généraliste, cardiologue, urgentiste, autre spécialités, kinésithérapeute, dentiste, infirmière, autre paramédical)


Consultation en rapport avec votre PTI ?  
Avez-vous montré votre fiche Sanoia  
Votre fiche vous a-t-elle été utile à cette consultation

OUI	NON
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Commentaires

Date  
type de soignant (Généraliste, cardiologue, urgentiste, autre spécialités, kinésithérapeute, dentiste, infirmière, autre paramédical)


Consultation en rapport avec votre PTI ?  
Avez-vous montré votre fiche Sanoia  
Votre fiche vous a-t-elle été utile à cette consultation

OUI	NON
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Commentaires

Date  
type de soignant (Généraliste, cardiologue, urgentiste, autre spécialités, kinésithérapeute, dentiste, infirmière, autre paramédical)


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OUI	NON
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Commentaires

patient : SERVY -- QUESTIONNAIRE MEDICAL à 1 mois

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