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# Code for Good: Scaling up Support for People Affected by Sepsis

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Team 10

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# Meet the Team



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She/Her/Hers

University of Edinburgh



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Imperial College London



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University of Cambridge



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University of Oxford, Somerville College

# Challenge Statement - Aims

- **Scale up support** for people affected by sepsis with technology, despite limitations on the number of support nurses at the UK Sepsis Trust
- **Improve accessibility** for different demographics
- **Collect structured data** to advance research on sepsis diagnosis, treatment, and recovery

# Our Solution

In this presentation, we will:

- **Showcase our vision of a social network**
  - **Forum** - supportive community to share your experiences and learn about others!
  - **Chatbox** - talk to health professionals and AI
  - **Wellbeing Diary** - document your recovery!
- **Discuss future areas of development & research**
  - Support Different **Languages** - with the help of Generative AI!
  - Raise Awareness through **Social Media**
  - Share **Information** about sepsis, developed by our volunteers in an engaging format
  - Keep **Traditional Communications** Alive - Posters, Talks

# The Forum

- Users can log in, or access the forum anonymously as a guest.
- Users can make posts, comment on posts, view previous.
- Verified nurses and other health professionals can leave medical advice.

New Post

## Post title 1

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce leo quam, finibus nec libero nec, ornare aliquet lorem. Interdum et malesuada fames ac ante ipsum primis in faucibus.

[View comments](#)

[Comment](#)

## Post title 2

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce leo quam, finibus nec libero nec, ornare aliquet lorem. Interdum et malesuada fames ac ante ipsum primis in faucibus.

[View comments](#)

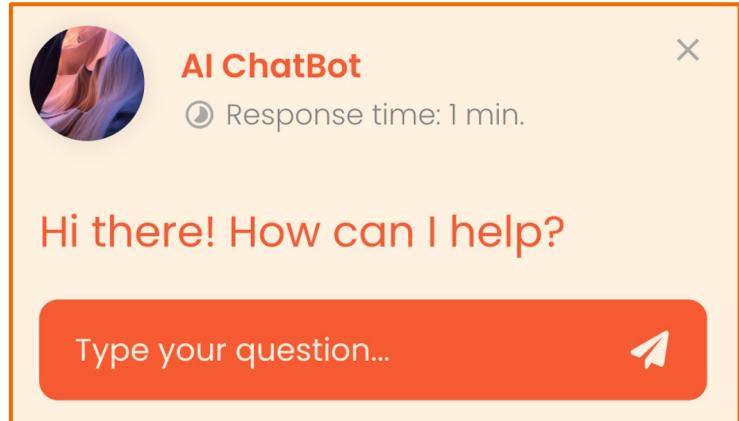
[Comment](#)

## Post title 3

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce leo quam, finibus nec libero nec, ornare

# Chat box

- Send messages directly to a nurse
- Speak with an AI chatbot
- Ask guidance on using the platform
- Retrieve information quickly
- Be cautious about using as a consultant for safeguarding concerns



# Demo and Creation Process

Forum Post:

- id
- title
- content
- created time
- author

Forum Comment:

- forum id
- content
- author
- created time

User:

- name
- email
- pass
- joined date
- badges
- id

## Ideas

- Research previous works for the presentation
- Lay out plans for maintainability for the charity, future plans
- Presentation should be a priority
- Everyone lay out their skills
- Keep idea within scope
- Have a plan for the day (what to work on, goals) at the start - does not have to be final, will probably change as we progress?
- Agile development. Plan, assign roles, work in sprints, reflect
- Jira ? — is that for Java? Thought we're using Python? Probably ~~bf~~ i ~~don't~~ know - can maybe use a python one? Not bothered just an idea

Jira is for java if i remember correctly

Ok i searched it up jira is just an agile tool, so we could use but maybe overkill?

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- Idea most key aspect imo
- Use different branches
- Make point of accessibility, test drive

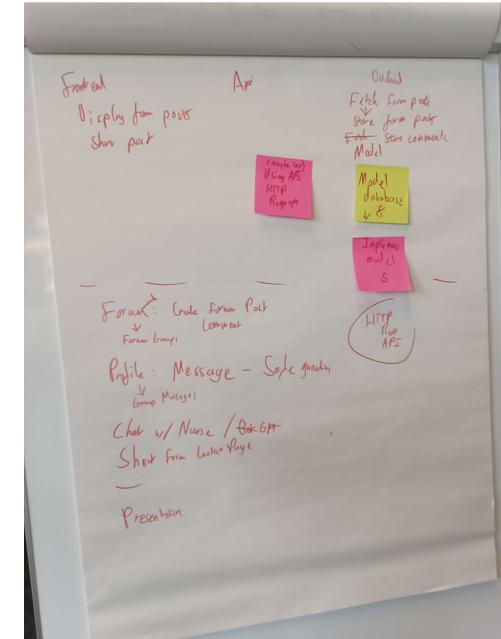
People of lower socioeconomic backgrounds and or pakistani descent more likely to develop

sepsis and die; also very young babies, esp those with existing health conditions

Current users mostly aged 44-64, but also want to expand access to other age groups

## Ideas

- Use generative AI to scale?
  - Do take note of AI safety (will the AI somehow spit out encourage-suicide content etc.), AI fairness and algo-based discrimination -> this could be an area of "future research" and defo sth to constantly monitor



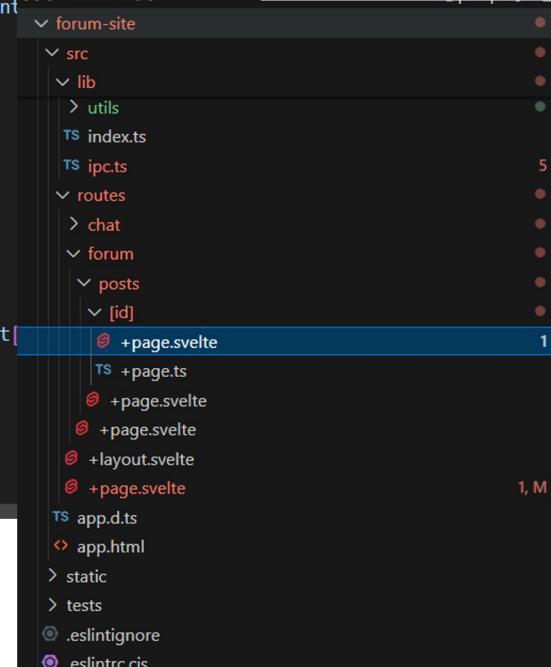
# Code

```
def chatbot(user_input):  
    messages = [  ]  
    {"role": "system", "content": "You are a helpful assistant designed to ou  
    {"role": "user", "content": user_input}  
    ]  
    )  
  
    return json.loads(completion.choices[0].message.co  
  
app = Flask(__name__)  
CORS(app)  
  
with open('databases/comments.json', 'r') as file:  
    comments = json.load(file)  
with open('databases/posts.json', 'r') as file:  
    posts = json.load(file)  
# Route to handle requests for posts data  
@app.route('/comments/<id>')  
def get_comments(id):  
    specific = [comment for comment in comments if comment['id'] == id]  
    return jsonify(specific)  
  
@app.route('/new_post', methods=['POST'])  
def add_post():  
    global posts  
    new_post = request.json
```

```
> Find  
  
<div class="bubble-container">  
  {#each chatMessages as chatMessage (chatMessage.text)}  
    <ChatBubble text={chatMessage.text} sender={chatMessage.sender}></ChatBubble>  
  {/each}</div>  
  
<div class="message-box">  
  <input bind:value={message} type="text" placeholder="Type a message" on:keydown={(e) => e.key === 'Enter' ? sendMessage() : null}>  
  <button on:click={sendMessage}>Send</button>  
</div>
```

# Code

```
def chatbot(user_input):  
    messages = [{"role": "system", "content": "You are a helpful assistant designed to ou"},  
               {"role": "user", "content": user_input}]  
    ]  
    )  
  
    return json.loads(completion.choices[0].message.content)  
  
app = Flask(__name__)  
CORS(app)  
  
with open('databases/comments.json', 'r') as file:  
    comments = json.load(file)  
with open('databases/posts.json', 'r') as file:  
    posts = json.load(file)  
# Route to handle requests for posts data  
@app.route('/comments/<id>')  
def get_comments(id):  
    specific = [comment for comment in comments if comment['id'] == id]  
    return jsonify(specific)  
  
@app.route('/new_post', methods=['POST'])  
def add_post():  
    global posts  
    new_post = request.json
```



```
forum-site  
  src  
    utils  
    ipc.ts  
    routes  
      chat  
      forum  
        posts  
        [id]  
          +page.svelte  
          +page.ts  
          +page.html  
          +layout.svelte  
          +page.svelte  
        TS app.d.ts  
        app.html  
      static  
      tests  
      .eslintignore  
      .eslintrc.cjs
```

```
1 <script lang="ts">  
2 /  
3   export let data;  
4   let formPost : ForumPost = data.post  
5   let comments : ForumComment[] = data.comments  
6  
7   let newComment = '';  
8   async function handleCommentsSubmit() {  
9     await postComment(formPost.id, newComment);  
10    comments = [...comments, {  
11      id : formPost.id,  
12      author : "You",  
13      content : newComment,  
14      created : new Date().toISOString()  
15    }];  
16    newComment = '';  
17  }  
18  </script>  
19  
20  <style>  
21    .title {  
22      text-align: center;  
23      background-color: #f0f0f0;  
24      padding-top: 10px;  
25    }  
26    .content {
```

# Tech Stack

Frontend



Svelte Kit

Backend



Flask

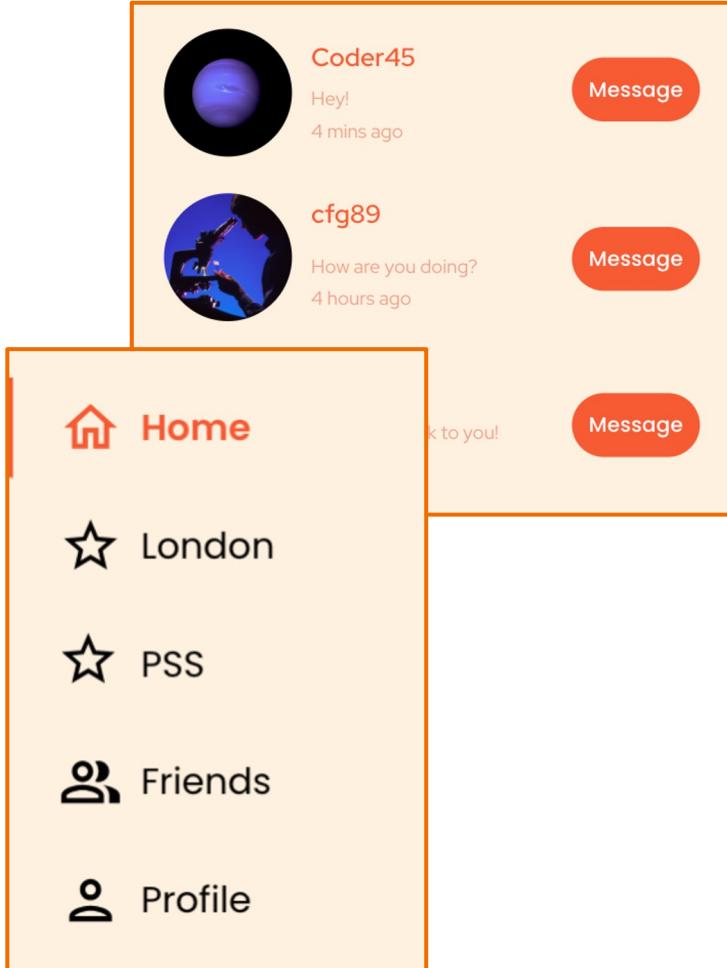
API



OpenAI API

# Connect for Support

- Allow users to follow each other and message each other.
- Profile pictures and bios as an introduction.
- Forum groups based on:
  - **Location:** Town, city, country, hospital...
  - **Experience:** Post sepsis syndrome sufferer, amputees, bereaved...
  - **Nationality:** Ethnic background, country of origin...
- Forum groups can be favorited and added to sidebar.



# Virtual Wellbeing Diary

- Simplify and digitise the wellbeing diary
- Collect more structured data to help to understand patient's recovery process
- Encourage users of all ages to take part
- Simple app interface
- Can assist research, as well as flag and identify vulnerable people based on their inputs

The image displays two versions of the Wellbeing Diary. The top version is a physical paper diary with a red border, titled 'WELLBEING DIARY' at the top. It has sections for 'WEEK NUMBER' and the 'THE UK SEPSIS TRUST' logo. The main body is divided into two columns: 'MONDAY' and 'FRIDAY' on the left, and 'TUESDAY' and 'SATURDAY' on the right. Each day has a line for writing and a smiley face icon. The bottom version is a digital mobile app interface with a white background. It also has 'WELLBEING DIARY' at the top and 'WEEK NUMBER' and 'THE UK SEPSIS TRUST' logo. It features a 'Wellbeing Diary' section with a 'This weeks mantra' field. Below it are five horizontal sliders for rating various aspects of well-being: 'How well did you sleep?' (scale 1-10, value 6), 'How much social interaction did you have?' (scale 1-10, value 6), 'Did you have enough water today?' (scale 1-10, value 6), 'How much did you get to relax?' (scale 1-10, value 6), and 'How much sunlight did you have?' (scale 1-10, value 6). To the right of these sliders is a 'Me time...' section with five items: 'Listen' (sleep icon), 'Read' (sun icon), 'Watch' (social interaction icon), 'Do' (water icon), and 'Relaxation time' (relax icon). At the bottom of the app interface is a 'Save' button in an orange box and a 'Cancel' button in a white box.

# Future Areas of Development & Research

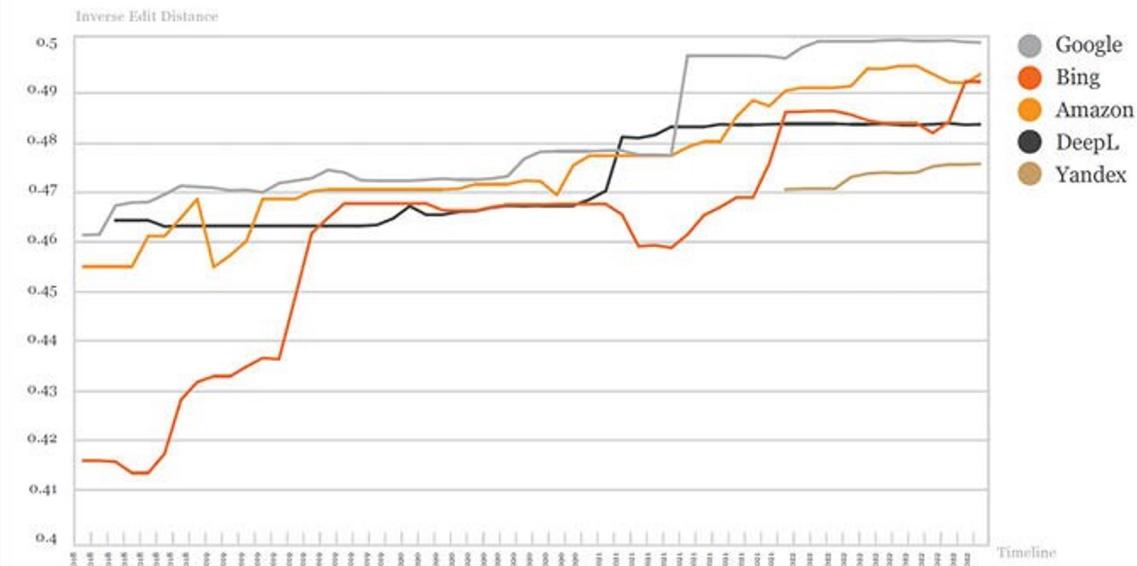
- **Support Different Languages - with the help of Generative AI!**
- Raising Awareness through Social Media
  - Collaborate with celebrities who have experienced sepsis
- Traditional Communications - Posters, Talks

# Expanding Support for Different Languages

- Recent development in AI significantly improves machine translation quality

Source: <https://www.lionbridge.com/blog/translation-localization/machine-translation-a-generative-ai-model-outperformed-a-neural-machine-translation-engine/>

## PERFORMANCE OF NEURAL MT ENGINES



**Figure 4.** A comparison of overall MT quality based on the inverse edit distance

**LIONBRIDGE**

# We can translate...

- **\*Forum**
- **Information** about sepsis
- **\*Chatbox**
  - **\*Chatbot**
- **Wellbeing Diary**

# Future Areas of Development & Research

- Support Different Languages - with the help of Generative AI!
- **Raise Awareness through Social Media**
  - Celebrities who have experienced sepsis can reach many people by making posts
- Keep Traditional Communications Alive - Posters, Talks

# Importance of Social Media in Increasing Awareness

SPRINGER LINK

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Home > Health and Technology > Article

## Creating health awareness: a social media enabled collaboration

Original Paper | Published: 17 January 2014

Volume 4, pages 43–57, (2014) [Cite this article](#)

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Liette Lapointe, Jui Ramaprasad & Isabelle Vedel

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Lapointe, L., Ramaprasad, J. & Vedel, I. Creating health awareness: a social media enabled collaboration. *Health Technol.* 4, 43–57 (2014). <https://doi.org/10.1007/s12553-013-0068-1>

Health Technol. (2014) 4:43–57

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Table 2 Breast Cancer Action

Traditional IT tools:	Evidence
<ul style="list-style-type: none"><li>• Website</li><li>• e-newsletter</li><li>• e-mail alert</li></ul>	<a href="http://bcaction.org/">http://bcaction.org/</a>

Social media tools:	Evidence
<ul style="list-style-type: none"><li>• Facebook</li></ul>	<a href="http://www.facebook.com/BCAction">http://www.facebook.com/BCAction</a>
<ul style="list-style-type: none"><li>• Twitter</li></ul>	<a href="http://twitter.com/#!/BCAction">http://twitter.com/#!/BCAction</a>
<ul style="list-style-type: none"><li>• YouTube</li></ul>	<a href="http://www.youtube.com/watch?v=2IT6sv_z5eg">http://www.youtube.com/watch?v=2IT6sv_z5eg</a>
<ul style="list-style-type: none"><li>• Blog</li></ul>	<a href="http://www.thinkbeforeyoupink">http://www.thinkbeforeyoupink</a>
<ul style="list-style-type: none"><li>• LinkedIn</li></ul>	

Main drivers of social media use:	Evidence
<ul style="list-style-type: none"><li>• Provide a voice for breast cancer victims</li></ul>	Initially it was kind of—you know, we've been historically a kind of an angry organization. People, you know, the organization was formed from women who were frustrated and angry about the lack of attention that breast cancer was receiving amongst all the cancers and particularly, feeling it was a gendered disease and so, it was—patients should be quieter and more passive and more complacent about women's responses to it and their diagnosis and it shouldn't be talked about and so our initial kind of Facebook and tweets were—were kind of in that vein, and they have now become still kind of—and viewed with that sense of anger but that anger is now more urgent—more an urgency
<ul style="list-style-type: none"><li>• Awareness and advocacy tool</li></ul>	
<ul style="list-style-type: none"><li>• Promoting campaigns</li></ul>	
<ul style="list-style-type: none"><li>• Build connections with other organizations</li></ul>	
<ul style="list-style-type: none"><li>• Education</li></ul>	

Impacts of social media use:	Evidence
<ul style="list-style-type: none"><li>• Increase in number of 'signatures' they get</li></ul>	And when we've done that, we have had, you know—we have had a vast increase in the number—it vastly increases the number of signatures we can get because our alternative is to hit the streets, send e-mails out and have people e-mail responses. So what we can now do is partner it with an e-mail campaign and a Facebook campaign and we've got a double-whammy component.
<ul style="list-style-type: none"><li>• Increased awareness</li></ul>	I see Facebook as a waiting mouthpiece to be grasped and we need to access that—that's what we need to tap into.
<ul style="list-style-type: none"><li>• Broader reach</li></ul>	

Table 3 Breast Cancer Society

Traditional IT tools:	Evidence
<ul style="list-style-type: none"><li>• Website-blog</li><li>• e-newsletters</li><li>• e-mail (email campaigns)</li><li>• Online coupons</li></ul>	<a href="http://www.bccs.ca">www.bccs.ca</a>

Social media tools:	Evidence
<ul style="list-style-type: none"><li>• Facebook</li></ul>	<a href="http://www.facebook.com/breastcancersocietyofcanada">http://www.facebook.com/breastcancersocietyofcanada</a>
<ul style="list-style-type: none"><li>• Twitter</li></ul>	<a href="http://twitter.com/#!/bccsctweet">http://twitter.com/#!/bccsctweet</a>
<ul style="list-style-type: none"><li>• LinkedIn</li></ul>	<a href="http://www.youtube.com/watch?v=2GPOVCzNb_c">http://www.youtube.com/watch?v=2GPOVCzNb_c</a>
<ul style="list-style-type: none"><li>• YouTube</li></ul>	
<ul style="list-style-type: none"><li>• Jumo</li></ul>	

Main drivers of social media use:	Evidence
<ul style="list-style-type: none"><li>• Create awareness about the organization itself at a low cost</li></ul>	I think it opens up many doors, myself. It keeps us very modern, it keeps us—it allows us to be very nimble, too, in communicating to people. It allows us to—we quite often will say, "Hey, did you hear about this study today?" And we'll post it so people get information right away. So, I think it's a fabulous tool and as far as a cost effective, it's a very cost effective way to communicate with people too.
<ul style="list-style-type: none"><li>• Post/re-post online information for readers who access information in different ways</li></ul>	
<ul style="list-style-type: none"><li>• Fundraising</li></ul>	
<ul style="list-style-type: none"><li>• Inform about how the money raised is spent</li></ul>	
<ul style="list-style-type: none"><li>• Imitation (natural evolution of an organization in the modern world)</li></ul>	
<ul style="list-style-type: none"><li>• Be responsive, sensitive</li></ul>	
<ul style="list-style-type: none"><li>• Create a social community that is connected most to their cause and their brand</li></ul>	
<ul style="list-style-type: none"><li>• Reach a target population (young)</li></ul>	
<ul style="list-style-type: none"><li>• Provide information about alternative—complementary treatment</li></ul>	
<ul style="list-style-type: none"><li>• Reach people who are in remote regions</li></ul>	
<ul style="list-style-type: none"><li>• Inform people about specific events</li></ul>	

Impacts of social media use:	Evidence
<ul style="list-style-type: none"><li>• Increased awareness about the organization (word of mouth)</li></ul>	...we track our visits. So, when one of our newsletters goes out there is a definite spike in visits to our website and it's definitely working. I would say that we are moving forward.

# Preference for Social Media Platforms Among Demographics

Table 1. Sample profile (N = 1149).

Category	Category	Jordan	%	Poland	%	All	%
Gender	Male	322	52.1	216	40.6	538	46.8
	Female	296	47.9	315	59.1	611	52.2
	Total	618		531		1149	
Age	18 to ≤34 years	275	44.4	324	60.1	599	52.1
	34 to ≤54 years	215	34.7	131	24.6	346	30.1
	54 and over	128	20.7	76	14.3	204	17.7
Educational level	Total	618		531		1149	
	High school and Diploma	167	27.0	133	25.0	300	26.1
	Undergraduate	297	48.0	256	48.2	517	44.9
	Graduate	154	24.9	142	26.7	332	28.9
	Total	618		531		1149	

Table 11. Social media platforms' ranking mean.

Code	Constructs	Jordan		Poland		Both	
		Media Channels	Mean	Rank	Mean	Rank	Mean
SOM1	Facebook	3.71	1	3.56	1	3.64	1
SOM2	Twitter	3.69	2	3.13	3	3.41	2
SOM3	YouTube	3.29	3	2.81	4	3.05	4
SOM4	Instagram	3.11	4	3.31	2	3.21	3
SOM5	Other	2.98	5	2.41	5	2.695	5

Abuhashesh, M.Y.; Al-Dmour, H.; Masa'deh, R.; Salman, A.; Al-Dmour, R.; Boguszewicz-Kreft, M.; AlAmaireh, Q.N. The Role of Social Media in Raising Public Health Awareness during the Pandemic COVID-19: An International Comparative Study. *Informatics* **2021**, *8*, 80.

<https://doi.org/10.3390/informatics8040080>

# Frequency of Cancer Discussions Among Twitter Users by Race

Table 3. Distribution of unique active Twitter users during each month of the study period by race and ethnicity.

Month	Race and ethnicity, n (%)				Total
	African American	Caucasian	Asian	Hispanic	
April	49,104 (9.72)	452,924 (89.64)	1289 (0.25)	1935 (0.38)	505,252
May <sup>a</sup>	40,956 (12.76)	277,169 (86.36)	1177 (0.37)	1646 (0.51)	320,948
July <sup>a</sup>	43,349 (9.58)	405,185 (89.57)	1661 (0.37)	2191 (0.48)	452,386
August	54740 (7.91)	632,687 (91.47)	1820 (0.26)	2466 (0.36)	691713
September	52,224 (10.16)	457,300 (89.02)	1789 (0.35)	2417 (0.47)	513,730
October	50,120 (11.07)	398,440 (88.02)	1763 (0.39)	2371 (0.52)	452,694
November	50,060 (10.80)	409,125 (88.30)	1762 (0.38)	2370 (0.51)	463,317
December	48,247 (11.20)	378,412 (87.86)	1727 (0.40)	2292 (0.53)	430,678
January	30,707 (15.62)	162,682 (82.75)	1435 (0.73)	1780 (0.91)	196,604

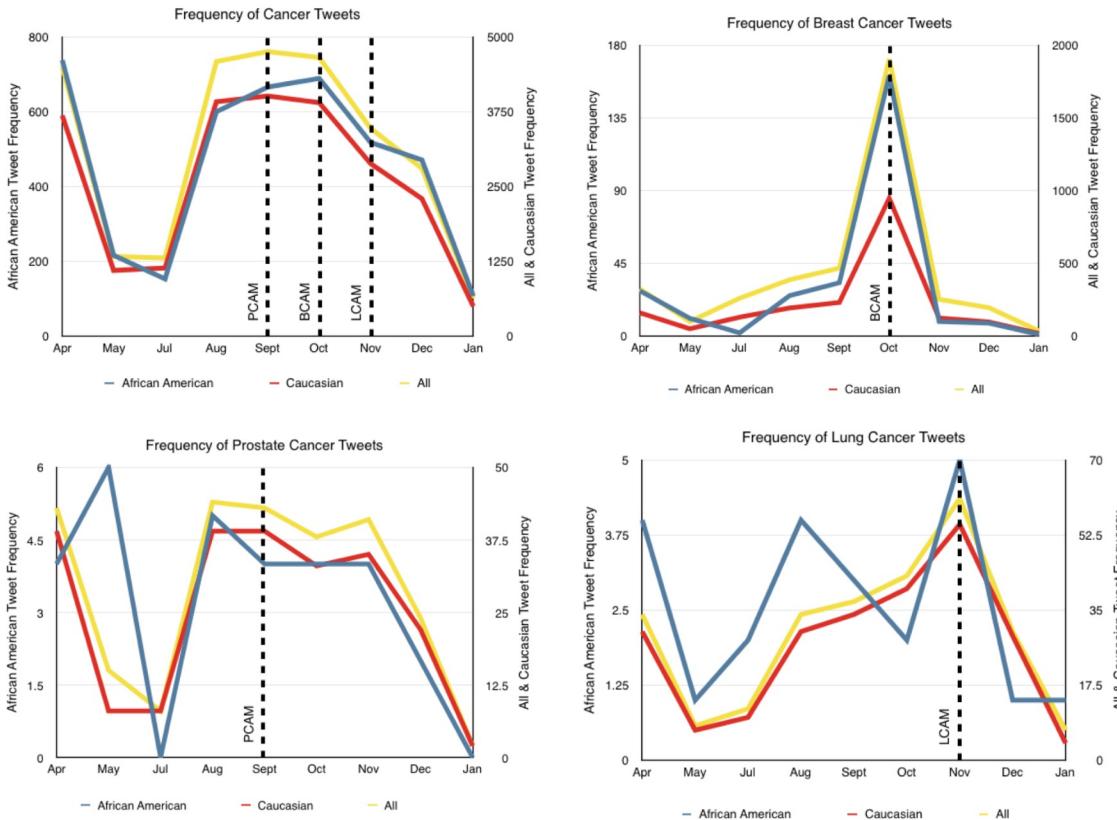
<sup>a</sup>Tweets from May 13, 2014 through July 24, 2014 were not retained due to a system outage.

Xu S, Markson C, Costello K, Xing C, Demissie K, Llanos A  
Leveraging Social Media to Promote Public Health  
Knowledge: Example of Cancer Awareness via Twitter  
JMIR Public Health Surveill 2016;2(1):e17

URL: <https://publichealth.jmir.org/2016/1/e17>

DOI: 10.2196/publichealth.5205

# Frequency of Cancer Discussions Among Twitter Users by Race



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DOI: 10.2196/publichealth.5205

# Criticism: Among groups already educated about the illness, social media does not significantly impact behaviour

	Survey response				p value	
	Baseline, n (%)		Post, n (%)			
	Yes	No	Yes	No		
Age						
18–26 years	107 (89)	13 (10)	109 (91)	11 (9)	0.564	
>26 years	397 (90)	46 (10)	420 (95)	23 (5)	0.002*	
Education						
Below bachelor's	166 (86)	26 (14)	176 (92)	16 (8)	0.068	
Bachelor's degree	183 (91)	18 (9)	190 (95)	11 (5)	0.127	
Master's degree or higher	155 (91)	15 (9)	163 (96)	7 (4)	0.059	
Decline to answer	—	—	—	—	—	
Income						
\$75,000 and higher	166 (92)	14 (8)	172 (96)	8 (4)	0.157	
\$50,000–\$74,999	104 (85)	18 (15)	112 (92)	10 (8)	0.088	
\$35,000–\$49,999	70 (89)	9 (11)	71 (90)	8 (10)	0.739	
< \$35,000	115 (91)	11 (8)	120 (95)	6 (5)	0.132	
Decline to answer	—	—	—	—	—	
Race/ethnicity						
White	374 (92)	33 (8)	387 (95)	20 (5)	0.053	
Black	39 (87)	6 (13)	41 (91)	4 (9)	0.414	
Asian	30 (91)	3 (9)	33 (100)	0 (0)	< 0.001*	
Hispanic	50 (76)	16 (24)	56 (85)	10 (15)	0.109	
Other	11 (92)	1 (8)	12 (100)	0 (0)	0.001*	

\*Significant at  $p < 0.05$

Lyson, H.C., Le, G.M., Zhang, J. et al. Social Media as a Tool to Promote Health Awareness: Results from an Online Cervical Cancer Prevention Study. *J Canc Educ* 34, 819–822 (2019). <https://doi.org/10.1007/s13187-018-1379-8>

# Criticism: Among groups already educated about the illness, social media does not significantly impact behaviour

	Survey response				p value	
	Baseline, n (%)		Post, n (%)			
	Yes	No	Yes	No		
Awareness						
Ever heard of HPV	504 (90)	59 (10)	592 (94)	34 (6)	0.003*	
Ever heard of HPV vaccine	526 (94)	31 (6)	530 (95)	27 (5)	0.450	
Knowledge						
HPV causes cervical cancer	503 (98)	9 (2)	496 (97)	16 (3)	0.090	
Get HPV from sexual contact	507 (96)	23 (4)	505 (95)	25 (5)	0.670	
HPV causes AIDS	36 (8)	438 (92)	29 (6)	445 (94)	0.127	
HPV can go away without treatment	119 (25)	355 (75)	117 (25)	357 (75)	0.782	
Behaviors						
Ever received HPV vaccine	144 (26)	401 (74)	146 (27)	399 (73)	0.670	
Received all three doses	105 (85)	18 (15)	108 (88)	12 (12)	0.083	
Ever had Pap test	503 (90)	53 (10)	508 (91)	48 (9)	0.380	

\*Significant at  $p < 0.05$

Lyson, H.C., Le, G.M., Zhang, J. et al. Tool to Promote Health Awareness: R Online Cervical Cancer Prevention Stu 34, 819–822 (2019). <https://doi.org/10.018-1379-8>

# Future Areas of Development & Research

- Support Different Languages - with the help of Generative AI!
- **Raising Awareness through Social Media**
  - **Celebrities who have experienced sepsis can reach many people by making posts**
- Traditional Communications - Posters, Talks

# Famous people affected by Sepsis

- **Ashley Park**, actress – treated for tonsillitis that progressed to sepsis
- **Paul Allen**, Co-Founder of Microsoft – died
- **Jon Huntsman**, philanthropist – died
- **Rusty Staub**, baseball player – died
- **Larry King**, TV personality – died
- **Pranab Mukherjee**, former president of India – died
- **Mother Theresa**, infected pacemaker line, survived but died years later of other causes
- **Harry Houdini**, magician – died
- **Prince Ranier of Monaco**, “chest infection” – died
- **George H.W. Bush**, former President of the United States

# Raising Awareness - Celebrities



## Lily Salska

It's been a little over a year now since I nearly lost my life to sepsis, a condition I knew very little about and can affect anyone. The experience now being one of the hardest things I have ever gone through and not a day goes by that I don't think of it in some sense. One day I was healthy and fine, sitting writing having breakfast in Nepal and within a matter of days hooked up to IVs and later a ventilator. There was an exact moment I knew things were teetering on life and death, (the little semblance ... [Read Full Story](#)

[SUBMIT YOUR STORY](#)[VIEW MORE STORIES](#)

Jason Lawnichak



Nick Sieverding



Tasha T



Shay and Amelia B.

Source: <https://www.sepsis.org/sepsisand/celebrities/>

# Future Areas of Development & Research

- Support Different Languages - with the help of Generative AI!
- Raising Awareness through Social Media
  - Collaborate with celebrities who have experienced sepsis
- **Traditional Communications - Posters, Talks**

# Connecting with the Older Demographic

<b>Listen well</b>	Older people have a wealth of knowledge, life experience and expertise, absorb it and use it.	<b>Think diversity</b>	Consider the best ways to be inclusive of a diverse range of older people and how to address any barriers they may have to participating.
<b>Show respect</b>	Say hello and be respectful, this is appreciated by people of all ages.	<b>Be culturally aware</b>	Engage in ways that are culturally appropriate and sensitive to the needs of older people from Aboriginal and Torres Strait Islander backgrounds and Culturally and Linguistically Diverse backgrounds.
<b>Be accessible and keep traditional communications alive</b>	While many older people are online, some still rely on traditional forms of communication. This may include face-to-face, post/mail, newspapers, printed material and phone. Keep this in mind to ensure you are inclusive of people who may not be physically mobile or who are not online.	<b>Third party support</b>	When targeting people who are frail, who have cognitive impairment or where there is little English spoken also consider the appropriateness of including a support person in the process. This may be a family member of the older person or a representative of an organisation.
<b>Clarity</b>	Keep communication clear, open and in plain respectful language. Fonts need to be large and easy to read. Try to avoid colours that are hard to read.	<b>Decision makers in the room</b>	Where possible, have the decision makers actively participating in the engagement. It shows that you are taking the engagement seriously.
<b>Run conferences, focus groups and workshops</b>	Older people are often very willing to come along and provide valuable input into what you are engaging on or informing them about.	<b>Older person-led engagements</b>	Include older people (with lived experience) in the engagement process and support them to run engagements where appropriate. It's important to ensure adequate training and support is provided to the older people running engagements.
<b>Think country</b>	Keep in mind people who live regionally, use your contacts or other organisations if resources/budgets are limited.	<b>Assumptions</b>	Don't assume that because people are older or may have a disability that they aren't able to contribute and add value. Sometimes we just need to take a little extra time. Don't make assumptions about marital status, sexuality and the existence of children either.
<b>Go to them</b>	Get out into the community, speak to people.		

Source: Australian government, <https://www.sahealth.sa.gov.au/wps/wcm/connect/efc56a004efc69f1b7ccf79ea2e2f365/Better+Together+Practical+Guide+to+Effective+Engagement+with+Older+People.pdf?MOD=AJPRES&CACHEID=ROOTWORKSPACE-efc56a004efc69f1b7ccf79ea2e2f365-nwLmRMW>

# Traditional Communications

THESE ARE THE FACES OF SEPSIS™



Anyone who has an infection is at risk of developing sepsis.

When it comes to sepsis, remember **IT'S ABOUT TIME™**. Watch for:

- T** **TEMPERATURE**  
higher or lower than normal
- I** **INFECTION**  
may have signs or symptoms of infection
- M** **MENTAL DECLINE**  
confused, sleepy, difficult to rouse
- E™** **EXTREMELY ILL**  
severe pain, discomfort, shortness of breath

CALL 911    OR GO TO A HOSPITAL AND SAY  
"I'M CONCERNED ABOUT SEPSIS"

Take the **TIME** to learn the signs at [sepsis.org](http://sepsis.org).



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**NHS**

# SEPSIS

IS A RARE BUT SERIOUS COMPLICATION OF AN INFECTION

If you have any of these symptoms you should take immediate action:

- S**lurred speech or confusion
- E**xtreme shivering or muscle pain
- P**assing no urine (in a day)
- S**evere breathlessness
- I**t feels like you're going to die
- S**kin that's mottled, discoloured or very pale

Acting quickly could save a life. If you have one or more of these symptoms, don't be afraid to go to A&E immediately or call 999.

For more information visit [sepsistrust.org](http://sepsistrust.org) or [nhs.uk/sepsis](http://nhs.uk/sepsis)

The UK Sepsis Trust registered charity number (England & Wales) 1108402, Company registration number 5845294. Sepsis Emergency Ltd company number 5845295, VAT reg. number 22376225

**JUST ASK  
“COULD IT BE SEPSIS?”**

IT'S A SIMPLE QUESTION, BUT IT COULD SAVE A LIFE.

**ADVICE FOR HEALTH PROFESSIONALS**

**THINK SEPSIS IF ANY OF THE FOLLOWING:**

- Patient looks unwell
- Patient is triggering an early warning score
- Relatives or carers are expressing concern
- Any signs of infection

IF SO GRAB A SCREENING TOOL AND LOOK FOR ONE OF THE RED FLAGS!

**THE SEPSIS SIX**

1. Ensure a senior clinician attends
2. Oxygen if required
3. Obtain IV access / take bloods
4. Give IV antibiotics
5. Give IV fluids
6. Monitor NEWS2 / UO / Lactate

 THE UK SEPSIS TRUST

Please support our work by donating now at [sepsistrust.org](http://sepsistrust.org)

**DOING THESE 6 THINGS CAN SIGNIFICANTLY REDUCE YOUR PATIENT'S CHANCE OF DETERIORATION.**

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Questions?