#### ARTICLE

# Dynamics of English gratitude expression: a corpus-assisted analysis of UK government COVID-19 briefings<sup>‡</sup>

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#### Abstract

With a focus on politicians' and medical experts' gratitude expressions in UK government COVID-19 briefings, this research describes how perspective and intensity were modulated in expressing gratitude to realise different pragmatic intentions. This corpus-assisted analysis finds that retrospective or prospective gratitude expression was adopted by the two British elite groups to build solidarity (encouraging) and/or make requests (directing) for protecting public health. Gratitude of varying intensities was expressed (e.g. by highlighting metaphorical dimensions such as WIDTH and DEPTH) to correspond to the importance of a benefit (judged by how much the given benefit matches the receiver's needs and preferences) and/or to implicitly display the evaluation of the benefactor's responsibility and efforts. We tentatively formulate a dynamic model of gratitude expression in public discourse and shed light on the metaphorical conceptualisation of English gratitude expression and the power of gratitude expression in a discourse of crisis.

Keywords: English gratitude expression; intensity; perspective; request; solidarity

#### 1. Introduction

This research focuses on the verbal expression of gratitude in UK government COVID-19 briefings in 2020–2021. The briefings had many functions, including informing the public of the latest scientific assessments of the disease, communicating a new government policy and persuading the public to come together to follow that policy and other measures to reduce the spread of the disease. Emotional expression was rife in this messaging (Wei, 2023b).

<sup>&</sup>lt;sup>\*</sup>The original version of this article was published with incorrect typographical treatment. A notice detailing this has been published and the error rectified in the online and print PDF and HTML copies.

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As a social emotion, the expression of gratitude has a particular role to play in maintaining authority and achieving persuasion. It increases compliance 'because people desire connections with others' (Dwyer, 2015, p. 4). Previous research shows that gratitude expressions in political election campaigns increased the likelihood that people would vote in subsequent elections (Panagopoulos, 2011), and a thank-you note from a residential treatment programme to case managers encouraged more frequent visits to their adolescent clients (Clark et al., 1988). Even a *thank you* written on the back of customers' restaurant bills can help servers receive large tips (Rind & Bordia, 1995).

Based on a corpus-assisted discourse analysis, this research aims to describe how perspective and intensity were mediated in expressing gratitude to realise different pragmatic intentions in UK government COVID-19 briefings. Following this Introduction, Section 2 provides a theoretical background by defining *gratitude*, explaining the functions and perspectives of gratitude expression and describing its dynamics. Section 3 introduces the data collection and the discourse analytic method. Section 4 describes the corpus-assisted analysis conducted to interpret English gratitude expressions and group their patterns. Section 5 discusses the dynamic pattern of linguistic expression of gratitude in terms of perspective, intensity and effect. Section 6 concludes the research with its main findings and future research suggestions.

## 2. Theoretical background on gratitude and its dynamic expression

#### 2.1. What is gratitude?

Gratitude is 'a crucial ingredient of every society and culture' (Komter, 2004, p. 208). It is defined as the recognition and appreciation of an altruistic gift (Emmons & McCullough, 2004). As a personal asset, it is 'a means of establishing social cohesion and creating a shared culture' (Komter, 2004, p. 208). It can help us get through difficult times and flourish in good times by promoting our relationship with those who are responsive to our likes and dislikes, and needs and preferences (Algoe et al., 2008).

Gratitude involves a giver (benefactor) and a receiver (beneficiary). It is a positive emotion expressed for 'kindness, generousness, gifts, the beauty of giving and receiving, or getting something for nothing' (Pruyser, 1976, p. 69). According to Wierzbicka (1999), gratitude can be understood as having three components:

- a. someone has done something good for me;
- b. this person didn't have to do it;
- c. I don't necessarily want to reciprocate, but at least I want to think good things about my benefactor.

This shows that a benefit has a 'gratuitous nature' (Wierzbicka, 1999, p. 105), and it may elicit in the beneficiary good thoughts about the benefactor or willingness to 'repay the favours' (Wierzbicka, 1999, p. 105). By looking to help the benefactor, showing 'a certain concern for the well-being' of the benefactor or trying to 'return a benefit' (Naar, 2019, p. 21), a grateful person expresses the recognition of a benefit and creates and maintains social bonds and relationships (Algoe, 2012).

Gratitude can be expressed in three ways: verbal gratitude, concrete gratitude (reciprocating with a physical gift or an action) and connective gratitude (reciprocating with something like friendship or help). Verbal gratitude is particularly flexible in that it varies in quality, frequency, intensity, perspective, etc. It can be

expressed by different linguistic resources in order to highlight different aspects of a thanking act. For instance, *thank you for your patience* can accentuate its performative aspect; *a thank you to everybody* can accentuate its expressive aspect; and *be grateful to everyone* can accentuate its descriptive one. Verbal gratitude can be displayed by acknowledging 'self-benefiting' (how much a beneficiary has profited from a benefit) or doing 'other-praising' (praising how much a benefactor has done for a benefit) (Algoe et al., 2016; Weiss et al., 2020). Therefore, verbal gratitude is often studied in different communicative contexts by linguists (e.g. Eisenstein & Bodman, 1986; Gkouma et al., 2023; Hymes, 1971; Wong, 2010; and this paper) and psychological researchers (Armenta et al., 2017; Chen et al., 2023; Dwyer, 2015).

#### 2.2. Gratitude expression: functions and perspectives

Emotions are 'about' something: they involve a direction or orientation towards an object (Parkinson, 1995, p. 8). Emotional expression is 'intentional' (Archer, 2000, p. 4). It can express 'what's inside', direct 'other people's behaviour', represent 'what the world is like' and commit 'to future courses of action' (Scarantino, 2017, p. 165). In other words, emotions involve a stance on the world or a way of apprehending the world (Ahmed, 2014, p. 7). They are triggered by personal evaluations, which in turn are represented by emotions; thus, emotional expression is an expressive act as well as a commissive one. When one expresses an emotion, one is responsible for changing the world (i.e. 'prioritising the pursuit of one goal at the expense of others' or 'surrendering one's control over one's future behaviour'; Scarantino, 2017, p. 180) in order to satisfy the conditions for the emotional expression.

As a moral emotion, gratitude is expressed to declare 'readiness to encourage or support' a beneficial action (as opposed to readiness to appease or attack; Scarantino, 2017, p. 180). It facilitates successful social relationships by providing people with the incentives to engage in social interactions and increases the likelihood that people will adhere to social norms that are necessary for group living. With its powerful moral, psychological and social functions, gratitude has been labelled as 'the greatest of the virtues', 'the parent of all others' (Cicero, 1851, p. 139) and 'the moral memory of mankind' (Simmel, 1950, p. 388).

A gratitude expression can be retrospective or prospective. Retrospective thanking, that is 'thanking' as a type of illocutionary act, has been defined by Searle (1969, p. 67) as a grateful or appreciative speech act based on past beneficial acts performed by the hearer. It is expressed 'after the fact' (Dwyer, 2015) to recognise the favours of benefactors and encourage their continued contributions. On the other hand, thanking with prospective timing typically occurs within or following a request (De Felice & Murphy, Forthcoming). It is adopted when a benefit is being given or expected to be given by the benefactor(s). It is conveyed 'before the fact' (Dwyer, 2015) or for the current fact to introduce a persuasive request or a polite reminder (e.g. *thank you for wearing a face covering*; cf. Wei, 2023a, p. 14) in order to mitigate the imposition on the favour-givers and strategically realise negative politeness.

## 2.3. Dynamics of gratitude expression

Emotional concepts can be represented as cognitive-cultural models in the mind (Kövecses, 2014, p. 15). In Kövecses' prototypical cognitive-cultural model of

emotion expression, a situation and an emotion form a force-dynamic pattern (Kövecses, 2014, p. 23). A situation is conceived of 'as a forceful entity' in eliciting emotion (Kövecses, 2014, p. 23). Emotion is not only the result of a particular situation/force but also the trigger of some actions (Kövecses, 2014, p. 23). For instance, happiness or joy is elicited by 'a situation in which you wanted something to be the case and now it is the case' (Kövecses, 1991, p. 34). In the meantime, a happy or joyful person may find some way (facial, postural or verbal) to display his/her emotion. In other words, both emotional experience and expression can be examined in terms of force dynamics.

With regard to gratitude, what enters the force-dynamic pattern is the situation where gratitude is elicited (i.e. what benefit has been given) and the gratitude expressed by a speaker. The situation is the force of arousing grateful feeling. The evoked gratefulness may lead to physiological responses and/or linguistic expressions.

Gratitude is elicited by the expresser's evaluation of the benefit(s) and the benefactor's social identity or influence. Linguistic expressions of gratitude demonstrate the expresser's stance in evaluating a benefit and the relationship between the beneficiary (usually the expresser) and the benefactor(s). In this way, the expresser can direct or elicit a response from the benefactor(s) or redefine their relationship. For instance, by using *A is grateful to B who* has *done* ..., a speaker/writer can express retrospective thankfulness and display their appreciative or supportive stance on the benefit; by using *pay a huge tribute to*..., a speaker/writer can construct the respectable identity of the benefactor(s) and convey retrospective gratitude formally and intensely; by using *thank you for doing*..., a speaker/writer can express prospective thanking and implicitly direct the benefactor (or the audience) to make a change or continue a certain action; and by using *a big thank you to* B, a speaker/writer can orient recognition and appreciation towards the benefactor(s) and intensify their affective stance.

Naar (2019) differentiates generic gratitude from deep gratitude. Generic gratitude is 'a particular mode of recognition of the impact other people have on one's life and of the quality of their character' (Naar, 2019, p. 21). It is a consequence of holding the beliefs that a benefit was given by the benefactor out of benevolent attitudes and that the recipient had benefited from it. For instance, generic gratitude is expressed to a person who is holding a door for us when we are going to enter it. Deep gratitude is triggered not only by the beliefs about the benefactor and the benefit received but also by the affinity between the benefit (or some aspect of the benefit) and one's cares, desires and likes. If a benefit is what the recipient needs, deep gratitude may be displayed. For instance, lending or sharing an umbrella on a rainy day may be a benefit to a person who has to travel in the rain without rain gear, and deep appreciation may be expressed to the benefactor who is trying to give the timely help.

The dynamic relationship between a situation (e.g. a benefit) and gratitude can be represented by different linguistic patterns. When a benefit is large or larger than usual, deep or heightened gratitude may be expressed by (*say*) *a big/massive thank you, be profoundly grateful* or *pay a huge tribute.* If a benefit is enacted by an individual, a group or an institution that is deemed as not obliged to make any effort for it, stronger expressions of gratitude are usually targeted towards them. When this benefit is given beyond the beneficiary's expectation, heightened gratitude tends to be expressed by praising what the benefactor has done for it (Weiss et al., 2020, p. 1616).

Gratitude expression is related to social norms, conforming to the principles of 'appropriateness' and 'genuineness' (Kövecses, 2014, p. 23) and observing the 'display rules' (Matsumoto et al., 2008) that dictate which response ('amplify, de-amplify,

mask, or neutralise'; Matsumoto et al., 2008, p. 65) is socially and culturally acceptable in which situation. While gratitude expression facilitates compliance (Dwyer, 2015) or pro-sociality (Ma et al., 2017), it can inhibit 'compliance because people desire personal freedom' and even induce repugnance or hatred (Dwyer, 2015, p. 6). Therefore, it is necessary for speakers to mediate the expression of gratitude in social interaction and discourse.

We return to these issues in Section 4 in analysing the expression of gratitude in UK government COVID-19 briefings.

## 3. Data collection and methodology

With the support of Sketch Engine (Kilgarriff et al., 2004, 2014; http://www. sketchengine.eu), two corpora were built, from the UK government COVID-19 briefings as part of a larger project examining emotionality in COVID-19 briefings (Wei, 2023b).

#### 3.1. Data collection

During the pandemic, the UK government implemented three lockdowns (restricting access to public space and limiting people's movement) from 23 March 2020 to 19 July 2021. At different stages of the national campaign against COVID-19, the government strove to guide people to stay at home (or self-isolate), to take certain protective measures (wash hands thoroughly, observe social distancing, wear face masks) or to get vaccinated in order to contain the virus within the community. To communicate with the public directly and clearly, the Office of the Prime Minister (No. 10 Downing Street) held daily briefings, which were broadcast live on BBC television and YouTube during the three national lockdowns.

In total, 18 politicians and 21 medical experts engaged in 156 government briefings. The main politicians included Prime Minister Boris Johnson and members of his cabinet: Health and Social Care Secretary Matt Hancock, Foreign Secretary Dominic Raab, Chancellor of the Exchequer Rishi Sunak and Transport Secretary Grant Shapps; the experts' group was represented by Chief Scientific Adviser Sir Patrick Vallance, Chief Medical Officer Professor Chris Whitty, National Medical Director of National Health Service (NHS) England Professor Steve Powis, Deputy Chief Medical Officer Professor Jonathan Van-Tam and Dr Jenny Harries.

Corpus compilation followed three steps. First, transcripts of the speeches of the Prime Minister and cabinet members were gleaned directly from the official website of Public Health England. Other speeches were automatically transcribed by Microsoft Office 365 Word from the videos on the website. All of the transcripts were then proofread verbatim against the corresponding videos on their YouTube channel. Because our research focuses on semantic and syntactic features of the speeches, prosodic features (e.g. pause, pitch and speed) were not marked in the corpora. Finally, two Word documents, one for politicians and the other for medical experts, were uploaded to Sketch Engine for automatic annotation and compilation.

Details of the English COVID-19 briefing corpora are presented in Table 1. In the Politicians' Corpus, there are 168 texts because some daily briefings included two politicians' speeches, while in the Experts' Corpus, there are 153 texts because experts were absent from some briefings.

Table 1. Details of English COVID-19 briefing corpora

Corpus	Number of texts	Number of words
Politicians' Corpus	168	190,265
Experts' Corpus	153	111,179

#### 3.2. Corpus-assisted discourse analysis

Adopting a corpus-assisted method, this research analyses the gratitude expressions in the two corpora. In English, gratitude is usually expressed by verbs such as *thank* and *appreciate*, adjectives like *grateful* and nouns like *gratitude*. Therefore, as the first step, six words (*thank*, *grateful*, *tribute*, *owe*, *appreciate* and *gratitude*) were chosen as search terms for frequency count.

Then collocates and concordance lines of the highly frequent gratitude terms were examined in order to discover their salient constructions present in both corpora and unveil the context where the dynamic expression of gratitude was mediated by the two elite groups for persuasive communication. Finally, linguistic patterns of the thanking act were generalised, and the two corpora were searched for these constructions.

#### 4. Corpus-assisted analysis of gratitude expressions

This section presents a fine-grained analysis of gratitude expressions in the two corpora in terms of frequency, collocation and concordance.

#### 4.1. Frequencies of potential gratitude expressions

*Thank*, *grateful*, *tribute*, *owe*, *appreciate* and *gratitude* were chosen as search terms for frequency count in order to show how gratitude was expressed by the two groups of speakers in the public discourse.

*Thank* is often used with *you* to express gratitude in social interaction and discourse. But as Hymes (1971, p. 69) points out, in British English, *thank you* 'seems on its way to marking formally the segments of certain interactions, with only residual attachment to "thanking" (p. 69). Rubin (1983) also discovers that *thank you* can signal the conclusion of a conversation, as well as expressing gratitude and compliments. In government briefings, *thank you* was used for this kind of ritual politeness at the beginning or end of a speech. Excluding these occurrences, we counted the frequencies of *thank you* in the two corpora. As Table 2 shows, *thank you* has 47 and 21 instances in the Politicians' Corpus and the Experts' Corpus, respectively. It is the most frequent gratitude expression in the Experts' Corpus, while it is the third most frequent one in the Politicians' Corpus.

In the Politicians' Corpus, the most frequent gratitude expression is *thank* with a third-person object. This pattern occurs 89 and 17 times in the Politicians' Corpus and the Experts' Corpus, respectively. In addition, the adjective *grateful* and the pattern "*pay*" []{0,3} "*tribute*" (with up to three intervening words) enjoy higher frequency in both corpora.

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	Politi	icians' Corpus	Experts' Corpus		
Expression of gratitude	Frequency	Frequency Relative frequency		Relative frequency	
thank + a 3rd–person object	89	411.82	17	135.60	
grateful	56	259.12	12	95.71	
thank you	47	217.48	21	167.50	
"pay"[ ]{0,3}"tribute"	36	166.58	7	55.83	
thanks	18	83.29	13	103.69	
owe	7	32.39	1	7.98	
gratitude	5	23.14	3	23.93	
appreciate	1	4.63	2	15.95	

Table 2. Frequencies of gratitude expressions in the Corpora

In terms of relative frequency (frequency per million words), both *thank* + a thirdperson object and "*pay*" []{0,3} "*tribute*" are used in the Politicians' Corpus about three times as frequently as in the Experts' Corpus. However, *thank you* has only a little higher frequency in the Politicians' Corpus than in the Experts' Corpus.

In brief, among the eight expressions of gratitude, *thank you*, *thank* + a third-person object *and grateful* (highlighted in bold) occur more in both corpora. Although "*pay*" [] {0,3} "*tribute*" (highlighted in bold) has a lower frequency than *thanks* in the Experts' Corpus, it is used far more frequently than *thanks* in the Politicians' Corpus.

#### 4.2. Collocation and concordance of key gratitude expressions

In this section, the highly frequent gratitude expressions are interpreted in terms of collocation and concordance.

#### 4.2.1. Thank you (or a third-person object)

*Thank you* is used in the corpora as a verb phrase, a compound noun or an interjection (discourse marker). As is shown in (1a), it is used as a verb phrase to highlight the performative aspect of thanking act and express action-oriented gratitude. It can also be used to demonstrate the expressive aspect of thanking act and express speech-oriented gratitude, as illustrated in (1b), (1c) and (1d).

- a. And I want to thank you all again for your patience because it is really clear now that this is paying off. (Politicians: Prime Minister Boris Johnson 5 April 2021)
  - b. And I also want to **say a big thank you** to the carers, the charity workers, all those who are looking after, or even just keeping an eye on, those in their local neighbourhood. (Politicians: Foreign Secretary Dominic Raab 9 April 2020)
  - c. And also of course **a huge thank you** to my friends and colleagues in the NHS for all the enormous work they've done to look after this number of people, so hospital admissions and hospital numbers coming down, and this is also translating into a reduction in deaths. (Experts: Patrick Vallance 10 February 2021)

d. So **thank you** to the members of the public for observing that in place. Ensure that we keep moving in that direction. (Experts: Jenny Harries 5 April 2020)

In (1b), to say a big thank you is employed to emphasise the act of thanking a third party verbally and explicitly in communication with the general public. In (1c), the verb say is left out and a noun phrase that includes *thank you* and its adjective modifier *huge* is used to convey gratitude to the speaker's friends and colleagues in the NHS. In (1d), only *thank you* is utilised as a quote to express thankfulness to the general public who observed the guidance.

As is seen in (1b), (1c) and (1d), *thank you* enables the speakers to express speechoriented gratitude directly to the third party or indirectly to the audience. It facilitates socially inclusive behaviours, which sometimes require a personal cost to oneself (Bartlett et al., 2012).

This speech-oriented usage has 25 occurrences (accounting for 53% of *thank you*'s uses for gratitude) in the Politicians' Corpus and helps the politicians connect as many benefactors as possible.

Figure 1 shows gratitude was expressed by the politicians towards everybody who did their bit in protecting lives in the UK: NHS staff, carers, key workers, volunteers, educational workers, as well as the general public who followed the government guidance to stay at home or get vaccinated.

In the Experts' Corpus, there are 13 cases of expressive *thank you* (accounting for 51% of its uses for gratitude) and *you*, the benefactors defined here, according to Figure 2, refers to NHS staff, unsung scientists, social care staff, volunteers who were working to protect people and the general public who were following the government's guidance.

Concerning the expressive use of *thank you*, both sets of speakers used adjective modifiers. Among the eleven intensified occurrences of *thank you* in the Politicians' Corpus, five different adjectives are exploited, while three adjectives appear in its seven cases in the Experts' Corpus. As Table 3 shows, the three adjective modifiers *massive*, *huge* and *big* (highlighted in bold) occur in both corpora. They all point to the amplification of verbal gratitude and reflect a parameter of gratitude intensity: metaphorical size (scale).

In the Politicians' Corpus, intensified gratitude marked by the construction a(n) + adj + thank you is intended to target mainly the cooperative general public, while in the Experts' Corpus, the target benefactor is every individual who complied with the public health guidance or who was working in the NHS, including frontline workers, researchers and scientists.

In (2), a(n) (...) massive thank you is used to express thankfulness to the NHS Test and Trace team for their great work or to the volunteers for their brave participation in COVID-19-related experiments for protecting public health.

- (2) a. I want to say **a massive thank you** to the NHS Test and Trace team who've built this extraordinary capability almost from scratch. (Politicians: Health and Social Care Secretary Matt Hancock 8 February 2021)
  - b. In fact, I was only going to say one thing and that was **an absolutely massive thank you** to all of those, up and down this country every day, who are volunteering for studies into Covid, some in vaccines, some in drugs, some in testing and many in just trying to understand the disease

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	Details	Left context	KWIC	Right context
1	doc#0	e it to be the right one where it's necessary. <s>And</s>	thank	you also to pharmacies, such as Boots, who are provid
2	doc#0	e extra mile during this very challenging period. <s></s>	Thank	you to all of those who are looking after us in our time of
3	doc#0	a lifeline to so many people in our communities. <s></s>	Thank	you to the workers who keep the country running, the s
4	doc#0	ard about who the 'key workers' are in our lives. <s></s>	Thank	you to the volunteers who have stepped up across the
5	doc#0	se restrictions and get back towards normal life, <s></s>	Thank	you to all those of you who are already doing your bit a
6	doc#0	adapt to the changes that the country has seen, <s></s>	Thank	you to all those officers and staff that are working this v
7	doc#0	PE effort, even over the bank holiday weekend. <s></s>	Thank	you to all of you and to all those that are involved in this
8	doc#0	to take the opportunity, again, to say thank you. <s></s>	Thank	you to all of the teachers, childcare and support staff w
9	doc#0	m to the NHS frontline <s>I want to say a great big</s>	thank	you to each and every one of you, welcome back,
10	doc#0	n to helping others, <s>And   also want to say a big</s>	thank	you to the carers, the charity workers, all those who are
11	doc#0	en. <s>Once again, I would like to say an enormous</s>	thank	you to all the school, college and childcare staff who've
12	doc#0	g everything they can. <s>And I want to say a huge</s>	thank	you to all those colleagues who are working so hard, th
13	doc#0	ever been involved in. <s>And I want to say a huge</s>	thank	you to everybody who leant in and has done so much t
14	doc#0	just read out, <s>For that, I want to say a massive</s>	thank	you to everyone who has gone the extra mile during thi
15	doc#0	community spirit at its very best.And a massive	thank	you to every single person who stayed home to stop th
16	doc#0	t keep our resolve. <s>I also want to say a massive</s>	thank	you to everybody, over the Bank Holiday weekend, who
17	doc#0	saching within 24 hours, <s>] want to say a massive</s>	thank	you to the NHS Test and Trace team who've built this e
18	doc#0	g lockdown. <s>I want to say once again a massive</s>	thank	you to our incredible teachers, leaders, support staff an
19	doc#0	improving this, but I also want to take a moment to say	thank	you to all those involved. <s>The third strand is abo</s>
20	doc#0	ar from what we might normally do. <s>I want to say</s>	thank	you to everyone for their patience, <s>We must per</s>
21	doc#0	and they are staying at home, <s>And   want to say</s>	thank	you to the millions of people who have put in our count
22	doc#0	ast as safely possible. <s>We've got used to saying</s>	thank	you to the people who have made this happen. <s></s>
23	doc#0	<s>It's taken a lot of hard work to get us here today, so</s>	thank	you to everyone involved. <s>This will be welcome</s>
24	doc#0	r front-line heroes are making to the country, <s>So</s>	thank	you to them, <s>It's also time that the planning syst</s>
25	doc#0	country going. <s>But I also want to offer a special</s>	thank	you to everyone who has now volunteered to help the h

Figure 1. Concordance of *thank you* in the Politicians' Corpus.

because, as we've repeatedly said, it is only science that is going to get us out of this hole and UK people across the UK are contributing enormously to this by volunteering their time, volunteering their expertise. (Experts: Chris Whitty 23 November 2020)

As a verb, *thank* can take other objects than *you* in order to explicitly mention the benefactor(s). As Figure 3 shows, *everyone* and *everybody* appear as the objects of *thank* more frequently than *staff* in both corpora. This suggests that the politicians and the medical experts tended to uniformly express thankfulness towards every

1 doc#0 lutely convinced, will ultimately help save lives, so a big thank you for me and everybody working in the NHS. 2 doc#0 ing in the right direction, but I do want to here say a big thank you to everybody in the NHS, the frontline staff who we 3 doc#0 nd finally, I should of course conclude, I think, with a big thank you to not only the scientists and the researchers who t 4 doc#0 in the first sprint. 4 doc#0 in the first sprint. 5 doc#0 I in government. 5 doc#0 I in government. 5 doc#0 I in government. 6 doc#0 I in government. 6 doc#0 I in government. 6 doc#0 I in government. 7 doc#0 I in government. 7 doc#0 ng to say one thing and that was an absolutely massive thank you to my friends and colleagues in the NHS for all the 7 doc#0 ng to say one thing and that was an absolutely massive thank you to NHS and social care staff is for people to follow t 9 doc#0 ere at risk are now safely at home. 7 s>>1 want to say thank you to all of you who've got a test, who've given us a lis 10 doc#0 na's alongside Birmingham and Manchester. 7 aloc#0 value of our NHS staff, all of our staff across into so 12 doc#0 value to do that despite the good weather. 7 s>>50 thank you to clinical colleagues, particularly in primary care, a		Details	s Left context	KWIC	Right context
doc#0 nd finally, I should of course conclude, I think, with a big <b>thank you</b> to not only the scientists and the researchers who f doc#0 · in the first sprint. <s>So I think, in conclusion, a big <b>thank you</b> to the public for helping us get this, an enormous th doc#0 in government.</s> <s>So I want, finally, to say a huge <b>thank you</b> to those who shielded, to all those who looked after doc#0 the way that we see.</s> <s>So I want, finally, to say a huge <b>thank you</b> to those who shielded, to all those who looked after doc#0 the way that we see.</s> <s>And also of course a huge <b>thank you</b> to my friends and colleagues in the NHS for all the doc#0 ng to say one thing and that was an absolutely massive <b>thank you</b> to all of those, up and down this country every day doc#0 the odubt that the single greatest thing you can do to say <b>thank you</b> to NHS and social care staff is for people to follow the doc#0 or doubt that the single greatest thing you can do to say <b>thank you</b> to NHS and social care staff is for people to follow the doc#0 or doubt that the single greatest this opportunity to just say <b>thank you</b> to everybody because it's because people have stu doc#0 na.</s> <s>And I want to take this opportunity to just say <b>thank you</b> to all of our NHS staff, all of our staff across into so that doc#0 ontinue to do that despite the good weather.</s> <s>So <b>thank you</b> to the members of the public for observing that in p</s>	1	doc#0	) lutely convinced, will ultimately help save lives, so a big t	hank	you for me and everybody working in the NHS.
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Figure 2. Concordance of thank you in the Experts' Corpus.

Table 3. Adject	tive intensifiers	of thank	you in the	Corpora
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Construction	Politicians' Corpus	Experts' Corpus
"a" [ ]{1,2} "thank" "you"	Ratio: 11/25 Percentage: 44.00%	Ratio: 7/13 Percentage: 53.85%
	<i>massive</i> 5 <i>huge</i> 2 <i>big</i> 2 <i>special</i> 1 <i>enormous</i> 1	big 4 huge 2 massive 1

individual in the general public and/or in a specific team (e.g. NHS or volunteering team) throughout the three national lockdowns.

While *staff*, *team*, *parent* and *business* represent the benefactors to whom gratitude is expressed in the Politicians' Corpus, *colleagues*, *people* and *staff* are viewed as the objects of gratitude in the Experts' Corpus.

#### 4.2.2. Be grateful

*Grateful* is another frequent expression of gratitude in the corpora. It takes adverb modifiers at about 64% (36 out of 56 cases) in the Politicians' Corpus and roughly 58% (7 out of 12 instances) in the Experts' Corpus. As Table 4 shows, the four adverbs shared in both corpora are *very*, *incredibly*, *extremely* and *especially* (shown in bold in Table 4). These intensifiers involve four parameters of gratitude intensity: degree, common sense, extreme value and typicality.

Incredibly is one of the amplifiers used in both corpora. In (3a), intensified gratitude is expressed to all members of staff in the NHS and volunteers. The



Figure 3. Objects of *thank* in the Corpora.

Construction	Politicians' Corpus	Experts' Corpus
[tag="RB.?"]"grateful"	Ratio: 36/56	Ratio: 7/12
	Percentage: 64.29%	Percentage: 58.33%
	<i>very</i> 16	extremely 3
	immensely 4	very 1
	incredibly 4	truly 1
	extremely 3	especially 1
	so 3	incredibly 1
	hugely 1	
	profoundly 1	
	really 1	
	deeply 1	
	enormously 1	
	especially 1	

Table 4. Intensifiers of grateful with their frequencies in the Corpora

pandemic ruthlessly pushed NHS staff to the frontline. These frontline workers and volunteering people were defined as the target group of the gratitude expression by the politician on behalf of the beneficiaries. In this example, gratitude is expressed through the pattern *be grateful to* sb. *who*-clause to describe the beneficiary's grateful feeling and praise the benefactor's efforts for the benefit. In (3b), the expert passes on his NHS colleagues' heightened appreciation for the public's incredible cooperation and acclaim over the past year.

- (3) a. I am incredibly grateful to all who have stepped forward, including people from all parts of the NHS: retired clinicians, pharmacists, airline cabin crew, the armed services, St John's Ambulance, the Royal Voluntary Service, and so many volunteers who've come forward for their country. (Politicians: Health and Social Care Secretary Matt Hancock 11 January 2021)
  - b. I know from talking to my colleagues throughout the frontline of NHS that in their response to the coronavirus, **they are incredibly grateful for** the

outpouring of support and praise that they have received during the last year. (Experts: Steve Powis 11 January 2021)

*Especially* is another booster of gratitude in both corpora. In (4a), the benefactor being thanked is the Royal British Legion and those hard workers; in (4b), the benefactor who deserves the gratitude is everybody who was involved in COVID-19 testing in Liverpool. With the help of the adverb *especially*, the speakers could strengthen their gratefulness as well as the benefits the benefactors provided for protecting public health. In (4a) and (4b), the same pattern is adopted for gratitude expression, albeit the use of different tenses in *who*-clause. In (4a), the simple past is used, whereas in (4b), the present perfect is employed. The difference in tense choice points to the benefit's difference in duration and magnitude.

- (4) a. I know it's been a tough first weekend of these Autumn restrictions and I'm especially grateful to the Royal British Legion and all those who worked so hard to ensure that no virus would stop us yesterday from honouring the memory of those who gave their lives for our freedom. (Politicians: Prime Minister Boris Johnson 9 November 2020)
  - b. And **we are especially grateful** to the people of Liverpool and the Director of Public Health, Local government and academic partners **who have worked** so hard to get thousands of people tested over the last 10 days with military support. (Experts: Susan Hopkins 16 November 2020)

*Extremely* is the third amplifier found in both corpora. As is shown in (5), strong gratitude is expressed to teachers in (5a) and to soldiers in (5b) for their contribution (risking their lives in doing their duties) to education or community safety during the pandemic. In (5a), gratitude is expressed by the pattern *be grateful to sb. for sth.*, while in (5b), the gratitude expression is *be grateful for sth. because*-clause. The first pattern appears to express gratitude to the benefactor more directly and briefly than the second one. However, the second one allows the mention of the benefit and the reason for the speaker's appreciation.

- (5) a. I urge parents to continue taking their children to school and I am extremely grateful to teachers across the country for their dedication in enabling schools to remain open. (Politicians: Prime Minister Boris Johnson 31 October 2020)
  - b. We're extremely grateful for such a warm response, more so because so many soldiers come from the city region and are excited to be giving something back to their communities. (Experts: Joe Fossey 9 November 2020)

The use of the three amplifiers (*incredibly*, *especially* and *extremely*) in both corpora demonstrates that both politicians and experts adjusted their expression of gratefulness in the public discourse when the benefits met their expectations and/or the benefits were great.

In the Politicians' Corpus, seven more intensifiers occur. These modifiers reflect that intensified gratitude is expressed by highlighting the degree (e.g. *so*), describing the metaphorical dimensions (WIDTH: *immensely, enormously, hugely*; DEPTH:

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Construction	Politicians' Corpus	Experts' Corpus
"pay"[ ]{0,3}"tribute"	Ratio: 8/36 Percentage: 22.22%	Ratio: 1/7 Percentage: 14.29%
	particular 3 special 2 fantastic 1 heartfelt 1 <b>huge</b> 1	huge 1

Table 5.	Intensifiers	of	tribute	in	the	Corpora
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*deeply* and *profoundly*) of gratitude or, in one case, showing sincerity (e.g. *really*). In the Experts' Corpus, most intensifiers relate to degree, but sincere gratitude is highlighted once by the adverb *truly*. These twelve adverbs were adopted as gratitude boosters to demonstrate speakers' nuanced gratefulness and personal distinctive evaluations about the issues in question.

## 4.2.3. Pay (a...) tribute

Unlike *thank you* (or sb. else) and *be grateful, pay* (*a...*) *tribute* alludes to the respectability and superiority of the target benefactor. It is more frequently used in the Politicians' Corpus than in the Experts' Corpus. It collocates with some adjective modifiers to heighten the expression of gratitude. It has about 22% and 14% of uses with modifiers, respectively, in the Politicians' Corpus and the Experts' Corpus. As Table 5 shows, *huge* appears as the modifier of *tribute* in both corpora. This suggests that *tribute* is viewed as a tangible object and its intensity is reified into the big size of an object. In addition, the Politicians' Corpus includes more adjective modifiers of *tribute*. They are used to describe the features (e.g. intensity and sincerity) of tribute in order to strengthen the expression of gratitude.

- (6) a. And I want to **pay huge tribute** to all of the councils, primary care and community care, pharmacies and the unbelievable 750,000 volunteers who've signed up to shielding the most vulnerable. (Politicians: Health and Social Care Secretary Matt Hancock 2 April 2020)
  - b. So I'd like to start tonight by **paying a huge tribute** to all our NHS staff throughout the country. (Experts: Steve Powis 30 December 2020)

The two examples in (6) depict situations in which heightened gratitude was expressed by the politician and the expert. In (6a), the politician's target benefactors include a broad range of people in roles related to shielding the vulnerable, while in (6b), the expert expresses intensified gratitude to all NHS staff. *Tribute* acknowledges that these benefactors made particularly great sacrifices, which earned them special respect and gratitude from the politician and the expert.

## 4.3. Linguistic patterns of thanking act

Having interpreted the collocates and concordance lines of the three key gratitude expressions in both corpora, we can generalise the thanking patterns by using *thank*,

*thank you* or *grateful* to demonstrate the performative, expressive and descriptive aspects of thanking act respectively:

#### Thank (performative):

(1a) A thanks B for sth./doing sth.

(1b) A thanks B who did/has done....

(1c) A thanks B who does/is doing....

(1d) A thanks B who is going to do/will do....

Thank you (expressive):

(2a) thank you to sb. for sth./doing sth.

(2b) thank you to sb. who did/has done...

(2c) thank you to sb. who does/is doing...

(2d) *thank you to* sb. *who* is going to do/will do...

Grateful (descriptive):

(3a) A *is grateful to* B *for* sth./doing sth.

(3b) A is grateful to B who did/has done...

(3c) A *is grateful to* B *who* does/is doing...

(3d) A *is grateful to* B *who* is going to do/will do...

These patterns demonstrate the perspective from which gratitude was expressed in government briefings. In them, A stands for the recipient of a benefit, while B is the person who gives/is giving/will give the benefit(s) to the beneficiary.

As Table 6 shows, Pattern 1, the performative pattern of *thank*, is the dominant one in both corpora. It has four variants, with Pattern (1a) (highlighted in bold) having the highest frequencies and Pattern (1b) enjoying a similar popularity as Pattern (1a) in both corpora. Patterns (1c) and (1d) have fewer cases, but they can be used to express prospective thanking together with Pattern (1a).

Among the *thank you* patterns, Pattern (2b) (highlighted in bold) has the most occurrences in both corpora. It was adopted to express retrospective gratitude. In contrast, Patterns (2a) and (2c) were involved in prospective thanking.

Regarding the *grateful* patterns, Pattern (3a) (highlighted in bold) is a little more frequent than Pattern (3b) in the Politicians' Corpus, though it has the same cases as (3b) in the Experts' Corpus. Contrary to Pattern (3b), it was employed for prospective thanking, together with Patterns (3c) and (3d) in the public discourse.

Pattern	Construction	Politicians' Corpus	Experts' Corpus
1a	A thanks B for sth./doing sth.	36	9
1b	A thanks B who did/has done	35	7
1c	A thanks B who does/is doing	16	5
1d	A thanks B who is going to do/will do	2	
2a	thank you to sb. for sth./doing sth	2	3
2b	thank you to sb. who did/has done/was doing	11	5
2c	thank you to sb. who does/ is doing	7	1
3a	A is grateful to B for sth./doing sth.	14	2
3b	A is grateful to B who did/has done	11	2
3c	A is grateful to B who does/is doing	6	1
3d	A is grateful to B who will be doing	1	

Table 6. Frequencies of gratitude expression patterns in the Corpora

While these patterns reflect how gratitude was expressed for acknowledging or directing in the public discourse, they do not unveil the interaction between the types of the benefits given by the benefactors and the variables (e.g. intensity or sincerity) of gratitude expressed by the beneficiaries. In order to better understand how gratitude expression is mediated in the public discourse, we need to concentrate on the use of intensifiers, including the adjective and adverb modifiers, in these thanking patterns. Moreover, we have to consider more contextual factors (e.g. the beneficiary's likes or needs, the potential favour-giver's identity or responsibility) to hypothesise the dynamic process of gratitude expression.

## 5. Discussion

In UK government COVID-19 briefings, gratitude was expressed to build solidarity and/or make requests. In the public discourse, thanking act, retrospective or prospective, serves double social functions: facilitating compliance with the government guidance and interfering with disobedience with the advice. Framing gratitude expression as retrospective or prospective, both politicians and experts intended to achieve gratitude of exchange; that is, the object of gratitude (e.g. the audience) would be inspired and try to reciprocate (e.g. start or continue complying with the government guidance) the expresser (usually the beneficiary) directly and actively as expected. In almost all of the cases of gratitude expression in the briefings, benefactors' efforts or contributions were mentioned to illustrate the speakers' expectations. In this sense, gratitude expression is deemed as more of a commissive act than an expressive one.

In expressing gratitude, perspectives and intensity were mediated by politicians and epistemologists to encourage or direct a beneficial action for public health.

Retrospective thanking and prospective thanking are present in the public discourse, with politicians expressing gratitude more frequently in either perspective than experts. Politicians and experts both adopted prospective thanking more frequently than retrospective thanking. By acknowledging the benefactors' favours, sacrifices or contributions, politicians and experts aimed to encourage them (e.g. the general public) to keep cooperating with the government in stopping the spread of the virus and protecting lives in the UK. By describing the potential benefits in different tenses: simple present, present progressive, simple future and future progressive, they strategically mediated their expression of prospective thanking for making requests or reminders.

In addition, gratitude of varying intensities was expressed to align with the received benefits and the benefactor's identity (or responsibility). In retrospective thanking, gratitude was intensified to highlight the benefits or benefactors by employing pre-posed adjective and adverbial modifiers (e.g. *huge, big, massive, immensely, deeply* or *extremely*). These amplifiers demonstrate five parameters (size, width, depth, degree and sincerity) of gratitude intensity and unveil how this emotion was conceptualised metaphorically. In this thanking act, gratitude was conceptualised as a tangible entity and its expression was intensified by specifying the dimensions of *thank you* or *tribute* or by describing the grateful feeling metaphorically (e.g. *immensely/profoundly grateful)* as a two-dimensional object.

Based on the corpus-assisted analysis of the politicians' and experts' gratitude expression in UK government COVID-19 briefings, a preliminary model can be



Figure 4. Dynamics of gratitude expression in public discourse.

formulated to describe the dynamic process of gratitude expression for encouraging or directing effects (see Figure 4) in public discourse.

A grateful experience usually goes before gratitude expression. This emotional experience is more of a cognitive evaluation. A benefit (major or minor, tangible or intangible) may be evaluated in relation to the beneficiary's preference or expectation as well as the benefactor's identity and responsibility. It may evoke intensified gratitude if it well matches the beneficiary's likes or needs. The same benefit, given by two people, a relative and a stranger, may elicit gratitude of different intensities. Moreover, if a benefit is defined as not falling into a benefactor's responsibility or being given at a certain peril or expense, stronger gratitude may be elicited and expressed. This reflects the dynamics between gratitude expression and its cause (e.g. the given or expected benefit). Gratitude sincerity and intensity vary with benefit importance and the benefactor's degree of involvement in this giving act.

Gratitude expression needs regulating. Its regulation involves matching its social effects with its expression perspectives and exploring gratitude dimensions. On the one hand, prospective thanking is chosen to direct the future actions of the target benefactors and show the speakers' grateful commitment to the potential benefits. In prospective thanking, generic gratitude is displayed for the benefits (normally minor) without extending the emotional dimensions or reifying the emotional language.

On the other hand, retrospective thanking is used to not only acknowledge and encourage the major benefits of the benefactors but also strengthen the speakers' social relationship by sharing their concern and care for the benefactors. In retrospective thanking, deep gratitude may be triggered by the major benefits and conveyed in the patterns, which demonstrate the tangibility of the verbal gratitude or represent metaphorically its dimensions such as SIZE, WIDTH and DEPTH. For instance, *pay a huge tribute* fits the high-profiled expression of retrospective gratitude for big tangible benefits, and *immensely grateful* or *a big thank you* is likely to realise the expression of heightened thankfulness.

Thanking act has performative, expressive or descriptive aspects. Different linguistic expressions can be adopted to do the speech act, express the emotion or describe the beneficiary's gratefulness. In the public discourse, (a...) thank you was frequently used for the expressive and intensified thanking act.

#### 6. Conclusion

This research has shown that gratitude, like other emotions (cf. Lakoff & Johnson, 1980), is conceptualised as an entity with size (*immensely grateful* or *a big thank you*) or depth (*deeply* or *profoundly grateful*). In this sense, it has contributed to the study of the metaphoric structure of emotions (cf. Kövecses, 2010). In addition, it has presented a variety of linguistic resources to express thanking (retrospectively or prospectively, strongly or not) strategically for solidarity and/or compliance.

It has also explored the potential of gratitude as a social lubricant that 'acknowledges mutual civility and build trust' between the benefactor and the beneficiary in public discourse (Buck 2004, p. 111). Furthermore, it has illustrated the great value and practical application of English gratitude expression as an emotional strategy for making a request or reminder in public health discourse (cf. Wei, 2023a). Relevant research shows that tailored messages contribute to improving trust and public health uptake (Dennis et al., 2021; Murthy et al., 2020; Ontario Agency for Health Protection and Promotion, 2023; Slavik et al., 2021) and that messages in risk communication should be transparent, evidence-based and action-oriented (Ontario Agency for Health Protection and Promotion, 2023).

During the COVID-19 pandemic, guidelines should be delivered in a bottom-up mode in order to create solidarity and encourage protective behaviours (Porat et al., 2020). According to Ogiermann & Bella (2023, p. 344), Prime Minister Boris Johnson used 33 directive forms in his two speeches (of 16 and 23 March 2020) to request people to take cooperative actions in the national campaign. Their research shows that Johnson employed top-down communication to direct public compliance at the beginning of the COVID-19 pandemic. This research, supported by more data, has found that British politicians and epidemiologists could adopt the bottom-up communicative approach and exploit the directive and persuasive values of gratitude expression in uniting any possible favour-giver, the general public in particular, and facilitating specific cooperation and voluntary compliance. In brief, it demonstrates the power of gratitude expression in boosting social cohesion and directing social actions in a discourse of crisis.

Most importantly, it has constructed a model of gratitude expression in an interactional perspective and revealed speakers' subjective initiative in adopting gratitude expressions for social or moral functions. This tentative model and a new perspective are conducive to analysing the dynamics of gratitude expression in English public discourse.

This research has examined the dynamics of two elite groups' gratitude expressions in a specific genre of English discourse (to be exact, public discourse of crisis). Given the small size of the corpora and the limited types of speakers, future research can consider including more genres of English discourse in order to reflect the universality of the metaphorical conceptualisation of gratitude and delve into the power of gratitude expression in building solidarity and directing social actions in a wider cultural context. Moreover, it is necessary to conduct a longitudinal study of all politicians' or just the Prime Minister's use of gratitude strategy for persuasion and direction in the government COVID-19 briefings. It is also advisable to study how the English gratitude expressions extracted in this research are perceived by the public and whether they contribute to facilitating public health compliance or not. Such methods as experiments, testing and interviews may be introduced to confirm or supplement the current research and highlight the dynamics of English gratitude expression more effectively.

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