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Article:

Ogden, Richard orcid.org/0000-0002-5315-720X (2021) Swallowing in conversation. Frontiers in Communication. Language Sciences.. 657190. ISSN 2297-900X

https://doi.org/10.3389/fcomm.2021.657190

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Swallowing in conversation

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12 Keywords: swallowing, conversation, non-verbal communication, emotion, phonetics

- 13
- 14 Language of the submission: British English

15 Abstract

16 Swallowing — a complex physical process that involves closure of the mouth and nasal 17 cavities, as well as the glottis, and the raising and lowering of the larynx — is at the 18 boundary between speech and the body, yet almost nothing is known about how it works in 19 conjunction with speech in spoken interaction.

20 Research into swallowing, mostly in speech therapy, has explored the articulations 21 required, how long it takes the bolus to pass through the mouth to the stomach, and the 22 sounds occur on the way. In the phonetics literature, swallowing is regularly excluded from 23 study: in experiments, tokens with swallowing are excluded; and while swallowing is used 24 to set up certain experiments, its effect on speech is not the object of such studies, though it 25 is sometimes mentioned as a possible action during a stretch of silence, as in word search. 26 Although speaking and swallowing are mutually incompatible, in conversation, 27 swallowing has to be coordinated around the processes of speaking. It can be part of the 28 preparations for speech; it can also occur within and after stretches of speech. 29 While swallowing has been marked in conversation analytic transcripts in several 30 languages, it is almost never commented on. Like sniffing, crying or laughing, swallowing 31 occurs in the vocal tract and may accompany speech, but is not considered as part of the

32 stream of speech. It is clearly related to drinking, which Hoey (2015, 2017, 2020b) shows is

strategically placed in the sequential unfolding of talk. In the same spirit, this paper will
 treat swallowing as an interactional resource which is bound up with language, and which

35 has particular affordances and demands.

This paper fills a gap in our knowledge, by focusing on swallowing that is embedded
within, before, or after stretches of speech. It considers the phonetic, linguistic and

- 38 interactional features of swallowing. It thus explores how verbal conduct is intertwined
- 39 with one aspect of bodily conduct.

40 **1. Introduction**

Swallowing — a complex physical process that involves closure of the mouth and nasal cavities, as well as the glottis, and the raising and lowering of the larynx — is at the boundary between speech and the body, yet almost nothing is known about how it works in conjunction with speech in spoken interaction.

Like sniffing, crying or laughing, swallowing occurs in the vocal tract and may accompany speech, but is considered marginal to speech (see Keevallik & Ogden, 2020, and papers therein). It is clearly central to eating and drinking, which Hoey (2015, 2017, 2020b) shows can be strategically placed in the sequential unfolding of talk. In the same spirit, this paper treats swallowing as an interactional resource which is bound up with language, and which has particular affordances and demands.

51 Studies of swallowing in speech therapy focus on the physical processes of swallowing, 52 mostly in isolation, or swallowing food or drink, but not alongside or within talk. In the 53 phonetics literature, swallowing is regularly excluded from study: in experiments, tokens 54 with swallowing are excluded; and while swallowing is used to set up certain experiments 55 (e.g. Faucher et al, 2019), its effect on speech is not the object of such studies, though it is 56 sometimes mentioned as a possible action during a stretch of silence, as in word search 57 (Belz & Trouvain, 2019; Ogden, 2013).

58 This study fills a gap in what is known about swallowing, by considering how it works 59 in one of its indigenous environments: talk-in-interaction. The paper draws on a variety of 60 data, including audio and video data, primarily from the UK. The examples are tokens of 61 swallowing where participants are not also eating or drinking, or indeed tasting, of which 62 swallowing may be a visible and prominent element (Mondada 2020: 149).

63 Section 2 offers a brief survey of what is already known about swallowing. I describe
64 the physical process of swallowing and its audible and visible effects, and review what is
65 known about swallowing from studies in both Conversation Analysis and elsewhere.

A primary question of the study is where in talk people audibly (and visibly) swallow. I
show the placement of swallowing relative to the online phonological and syntactic
construction of a turn at talk. I show that swallows that project more talk (Section 4) and

69 swallows that project no more talk cooccur with different syntactic, prosodic and phonetic

70 features. Section 6 looks at examples of swallowing embedded with affective displays,

71 including sobbing and facial and verbal displays of 'trouble'.

72 2. Background

73 **2.1 The physiological process of swallowing**

Swallowing is the process of moving a ball of food or liquid (bolus) from the mouth tothe oesophagus and then into the stomach. This is accomplished by a complex series of

voluntary and involuntary actions which are tightly coordinated with each other. Firstly,

- the tongue pushes the bolus to the back of the mouth. Secondly, the bolus is passed into the
- 78 pharynx. At this point, the soft palate is raised, sealing off the nasal cavities and making
- 79 nasal airflow (including therefore breathing) impossible; the vocal folds close, the larynx
- 80 rises, and the epiglottis covers and protects the larynx (forming an epiglottal stop: Esling et
- al. 2019: 53), and prevents the bolus passing into the lungs. Finally, the bolus moves to the
- 82 oesophagus, and from there it is pushed into the stomach through muscle contractions.
- 83 The action of swallowing is incompatible with speaking, because the closures at the lips,
- 84 glottis and velum mean that the vocal tract is temporarily sealed off, and the airflow
- 85 required for speech is not possible. Later sections will show how swallowing affects

86 surrounding speech, and how swallowing is placed within talk.

87 **2.2 Sounds of swallowing**

88 Although speech is not possible during swallowing, the biomechanical movements of 89 swallowing do produce a number of sounds. These sounds are generally rather quiet, or 90 inaudible; and they have much lower amplitude than speech. In speech therapy studies they 91 have mostly been examined by using a stethoscope placed above the larynx while being 92 asked to swallow something, usually a thickened liquid; or by placing a microphone in the 93 same location (Ferruci et al. 2013).

94 A study by Morinière et al (2008), on 75 recordings of 15 individuals, identified three 95 common acoustic components during swallowing: (1) the laryngeal ascension sound, (2) the 96 upper-sphincter opening sound, which was found in all their recordings, and (3) the 97 laryngeal release sound. The laryngeal ascension sound is rather low in intensity, so is 98 heard as quiet. The upper-sphincter opening sound was found in all their recordings, and is 99 the sound of the bolus flowing through the pharynx, and corresponds to the 'gulping' sound 100 most commonly associated with swallowing. On average it lasts 185 ms in their data 101 (approximately the duration of a long vowel in English). The laryngeal release sound, like 102 the ascension sound, is quiet and not always present. The laryngeal ascension and release 103 sounds are shorter (average 106 ms and 72 ms respectively), transient, click-like sounds. 104 Swallowing can take between 0.25 and 0.8 s. The average total duration of a swallow is 105 around 0.4 s, with an average intensity of around 44 dB, which is quiet (Cichero & 106 Murdoch, 2002). On average, the swallowing sounds of females are higher in timbre than 107 those of males; for males, there is more variability in the timbre depending on the size of 108 the bolus (Cichero & Murdoch, 2002: 630). The same study showed that subjective 109 discrimination of swallowing sounds was fairly reliable: they were recognised more than 110 70% of the time, and when the bolus was 15 ml, they were distinct 90% of the time. 111 These findings mean that it is reasonable to use auditory data to detect swallowing, and 112 that swallowing may be audible for participants in conversation.

113 Although swallowing is not compatible with speaking, it affects the production of

- 114 speech before and after the swallow occurs. During swallowing itself, the vocal folds are
- 115 closed, so exhalation a prerequisite for the vast majority of speech sounds is not
- 116 possible. In addition, the lips are closed and the velum raised, so neither ingressive nor
- egressive airflow can occur. In short, speech is physically not possible during swallowing.
- 118 However, swallowing can take place before, during or after the act of speaking, and
- 119 sometimes its effects are audible within speech.
- 120 The acoustic properties of speech can be affected by swallowing shortly before its onset 121 and offset. The raising of the larynx required while swallowing shortens the vocal tract. The
- 122 movement of the larynx produces changes in the voice quality; a raised larynx is associated
- 123 with higher F0 (Honda, 2004, cited in Esling et al, 2019: 95). The change of the length of
- 124 the vocal tract changes the natural resonances of the vocal tract. Since the movement of the
- 125 larynx is pretty rapid, these resonance changes are also rapid. The data in this paper does
- 126 not allow further investigation into the acoustic effects of swallowing on speech.
- Once the swallow is complete, adjustments need to be made to the vocal tract to produce speech. These adjustments include e.g. separation of the lips, and the removal of the tongue from the roof of the mouth, resulting in lipsmacks and clicks.
- 130 The sounds of swallowing are illustrated in Example 1. The speaker, Sue, has projected 131 a two-parted answer to a question from Charlie about why Britons do not forage. The 132 swallow comes at the end of the first part of her answer, and just before the second, already 133 projected, part.

134 Example 1: vegtalk BBC Radio 4 19.12.03 forage

135	01	Sue:	there are TWO mAIn reasons: uh Charlie. I think (.) the fIrst
136	02		is that we've become very URbanised. we live- a LOT of us live
137	03		in towns, M:Any more than live in the cOUntry,
138	04	Ch:	[mm.
139	04	Sue:	[.hh and-uhm ((0.62 SWALLOW CLICK)) I think the sEcond thing is
140	05		that ACcess to the cOUntry in the UK is kind of (.)
141	06		< <p>TRICKy>.</p>
142			







146

147 The final [m] of 'and-uhm 'is relatively short, and there is an abrupt drop in volume, so 148 it sounds cut off. Between the end of [m] and the onset of 'I think 'is a gap of 620 ms, 149 during which the swallow occurs. Two transients (audible as momentary popping sounds) 150 are visible, marked as T1 and T2 in Figure 1. T1 is the laryngeal ascension sound. T2 which is louder, and whose energy is in the F2 region, is the upper sphincter opening sound, and 151 152 the sound of saliva passing down the oesophagus. It lasts about 100 ms. Both of these 153 sounds are low in intensity in comparison with the speech that surrounds them. The 154 swallow is released with a click (marked C) just after 4.8 s.

155 This stretch of talk has a very noticeable rhythmical organisation. The asterisks in Fig. 156 1, have been placed at amplitude and f0 peaks in the signal (see Ogden & Hawkins 2015 for 157 a complete description of the method). These mark the approximate location of rhythmical 158 beats. 'And-uhm' has two beats; the next beat in talk comes on 'I' at around 4.9 s. The 159 swallow occurs during a silent beat, marked (*). Rhythmicity can be seen in the 160 approximately equal intervals in time between the marked beats: i.e. the beats are 161 isochronous, and this generates a sense of rhythmicity. Rhythmicity in turn generates 162 coherence across the gap, projecting moments in time with which further speech events can 163 be coordinated (cf. Ogden, 2013: 314-316, on clicks used as metronomes with the same 164 function), and tying the talk after the swallow with the talk before it. Interestingly, the 165 swallow is timed in such a way that the return to talk happens on beat with prior talk, so

while the swallow disrupts the flow of surrounding talk, it is also fitted to aspects of theproduction of that talk.

168 The swallow comes just after the second reason of two — already projected in line 1, 169 with 'two main reasons' — has been projected with 'and-uhm': it occurs at a place of 170 'maximal grammatical control' (Schegloff 1996: 93). The click, which occurs immediately 171 before the second reason is presented, bears some resemblance to a 'new sequence indexing 172 click' (Wright 2007, 2011), in that the swallow and the click are placed at a structural 173 juncture, where the material after the swallow + click is the start of something new (in this 174 case the second projected reason).

As we will see from later examples, swallows are quite regularly positioned within
speech so as to accommodate the action of speaking, on both the syntactic and prosodic
front.

178 **2.3 Swallowing as silence**

Although swallowing may produce noises, swallows are often inaudible. Silent or
inaudible swallows cannot therefore be transcribed from audio data; in addition,
transcribers may decide *a priori* that such events are not worthy of transcription. Belz &
Trouvain (2019) and Trouvain, Werner and Möbius (2020) note that many things labelled
as 'silences' in phonetic studies in fact include sounds such as in-breaths and clicks —
swallows could be added to this list.

185 **2.4 Visible effects of swallowing**

While the sounds of swallowing are often hard to observe, visible signs of swallowing
are often more accessible. The upward then downward movement of the larynx is
accompanied by movements of muscles and bones in the neck. The following things can
commonly be seen during swallowing:

- 190
- 191 the lips may be tightly pressed together (cf. Peräkylä & Ruusuvuori, 2012: 77)
- tendons in the neck may be visible as the larynx is raised and lowered
- the upward and downward movement of the larynx may be seen
- there may be a forward movement of the chin, straightening out the pharynx
- 195
- 196 Some of these features are visible in Figure 2, which is taken from Example 5.
- 197



198 199 Fig. 2. Images of swallowing from Example 5. The speaker (pictured) says 'Belinda got-uhm : ① 200 (0.7 SWALLOW ②) CLICK ③ a ([ei]) (0.6) grant'. 201 (1): taken at the end of 'uhm'. Note the tightly pressed lips with the outer surfaces pressed

202 203 inwards. (2): taken during the swallow. Note the visible tendons in the neck as the larynx is raised. (3): the swallow is released into a click, and the lips are opened.

The visibility of swallowing in video data is contingent on the positioning of the camera relative to the speaker, the visibility of the neck (perhaps because of clothing), and the speaker's own physiology. Such contingencies mean that swallows may not be visibly accessible to the analyst, depending on the data recording.

208 **2.5 Swallowing in spoken interaction**

209 In the main disciplines to have considered swallowing – phonetics and speech therapy 210 studies – swallowing is dislocated from speech, and is treated as an action by itself. 211 In phonetic studies, swallowing is predominantly mentioned in two speech contexts. The 212 first one is in setting up ultrasound experiments, where swallowing liquid helps the 213 experimenter to establish the line of the hard palate. However, this is only part of the set-214 up, and not an element of any study, so any data on swallowing is discarded. Secondly, 215 swallowing is mentioned as a reason to exclude data samples from experimental study, 216 since it is treated as a disfluency, and experiments in general require speech to be fluent. 217 In speech therapy studies, the main area of interest is dysphagia, where one or more 218 aspect of swallowing is not working properly. Most of these studies are interested in the 219 physiology of swallowing, and so they focus on what happens when a participant attempts 220 to swallow something that has been ingested. Swallowing is therefore treated as a process 221 by itself, separate from speech.

In Conversation Analysis, swallowing has rarely been commented on, although examples of it appear in published transcriptions in several languages. It has been mentioned in the context of crying (Hepburn, 2004; Hepburn & Potter, 2012: 200) and drinking (Hoey, 2020b); but little is said about the placement of swallowing in speech, or its effects on speech.

This paper fills a gap in our knowledge, by focusing on swallowing that is embedded within, before, or after stretches of speech. It considers the phonetic, linguistic and interactional features of swallowing. It thus explores how verbal conduct is intertwined

230 with one aspect of bodily conduct.

231 **2.6 The syntactic placement of swallows in talk**

232 Swallowing has been marked in conversation analytic transcripts in several languages: 233 e.g. English (Schegloff, 1988: 226), Estonian (Laanesoo & Keevallik, 2017: 294-5), German 234 (Selting, 2012: 405), Italian (Rossi, 2015: 41-2), and Norwegian (Sikveland & Ogden, 2012: 235 176). However, it is almost never commented on. A survey of the placement of swallows in 236 these transcripts shows that they can occur before the verbal components of a TCU 237 (Hepburn, 2004: 260; Laanesoo & Keevallik, 2017: 294-5); in the middle of a syntactic 238 clause (Schegloff 1988: 226; Hepburn, 2004: 285; Sikveland & Ogden, 2012, 176; Ogden 239 2013; 311); or as a standalone (Hepburn, 2004: 273). Thus swallows occur either in places 240 which do not disrupt the syntactic structures of the talk in progress (e.g. where placed in 241 pre-TCU position), or in positions of what Schegloff calls 'maximal grammatical control' 242 (Schegloff 1996: 93). 243 One of the goals of this paper is to explore where swallows are embedded within talk,

and what the affordances of swallowing in such positions are. In addition to the positions
noted above, we will show examples of swallows that are produced post-completion,
making them similar to some clicks (Ogden 2013, 2020), sniffs (Hoey 2020a) or sighs (Hoey
2014).

248 **2.7 Swallowing and displays of emotional affect**

As well as being a somatic necessity, swallowing is associated with heightened affective states and crying or sobbing. The spontaneous swallowing rate has been shown to increase with emotional arousal (Fonagy & Calloway, 1985; Ritz & Thöns, 2006). In an experimental setting, Cuevas et al., (1995) found that heart rate, limb movement, sweat production and swallowing all increased in conditions of heightened emotional arousal, whereas they all dropped in a low arousal condition.

Roach et al. (1998: 87) treat 'gulping '(which we take as a form of a loud, audible,swallow) as a reflex:

- 257 ...an involuntary indication of genuine emotional stress. Extreme emotional states produce
 258 altered patterns in respiration, the endocrine system, and the metabolism in general, which
 259 may result in audible changes to speech.
- There exists the possibility that such reflexes are not always involuntary, but may be
 consciously used to convey a particular emotional state. Scherer (1985) makes this
 distinction in his discussion of unconscious "push-effects" versus conscious "pull- effects".
- •
- 263 There seem to be no empirical studies exploring how swallowing is connected to

displays of affective states in natural speech. If experimental findings translate to everyday
settings, we would expect swallowing to be more frequent in affective displays. Hepburn
(2004) is one of the few CA studies which mentions swallowing explicitly, in the context of
crying.

268 If swallowing can be recruited as part of a display of an affective state, as a 'pull-effect',

then we would expect to find that there are orderly practices for embedding it within

language, alongside other linguistic practices around the display of emotion. While thispaper does not contain enough data to provide an unequivocal analysis of the association

between swallowing and displays of emotional affective states, it does contain cases where

swallowing prefigures such a display, or avoids one.

274 **3. Data and methods**

275 **3.1 Sources of data**

The language of the data is British English. The examples presented in this paper come from three main sources:

278

279 1. Rossi Corpus of English (RCE). RCE was recorded in York in 2011. It consists of 280 conversations between colleagues and friends in a natural setting. Most of the data 281 comes from RCE14, Colleagues (two British speakers, one male, one female), and 282 RCE25, Bench (two female speakers, one North American, the other British), because 283 these two recordings provide clear visual access to the participants 'necks, so that 284 swallowing is visible. The RCE data includes high quality audio files, which make 285 closer acoustic analysis possible. Altogether, RCE14 and RCE 25 amount to 56 286 minutes of data, and they yielded 14 clear examples of swallowing.

287 288 This da

This data was complemented by publicly available sources of data which contain other
kinds of social interactions. These are from edited, but unscripted, British reality TV shows:

291 2. *Repair Shop*. Repair Shop is a British TV programme where people bring in objects 292 that are broken, to get them mended. They present their items and tell a brief story 293 about their sentimental value. They return to the repair shop to collect these items 294 some time later. The collection draws especially from the return visit, where the 295 repaired and restored items are revealed. This is often a moment for a display or 296 outpouring of emotion. In total, 12 episodes were inspected (a total of 8 hr 45 297 minutes), with 35 objects repaired and a total of 8 swallowing episodes on the return 298 of repaired items. The data is British English.

299 3. *Judge Rinder*. Judge Rinder is a British TV programme mimicking a small claims

- 300 court. While it has entertainment value, it often puts the plaintiffs and defendants in
 301 emotionally charged positions. Two episodes yield three examples of swallowing; the
 302 data is British English.
- 303

The figures provided in this list should be treated with caution: given the limitations of both audibility and visibility of swallowing, they certainly do not capture all instances of swallowing, and it is not possible to draw robust conclusions about the frequency of swallowing from this data.

None of these sources allow for control over factors important to traditional
sociolinguistics, such as gender, age or origin of the speaker. As with other 'liminal'
phenomena within speech (Dingemanse 2020; Keevallik & Ogden 2020), it is possible that
there is individual variation in the frequency with which such items are produced. For
swallowing, any variation may not be consistent for a given individual, for physiological
reasons, such as temporarily having a dry mouth, or crying.
Data for Repair Shop and Judge Rinder were collected from broadcasts available via Box

315 of Broadcasts. Ethical approval was granted by the ethics committee of the Department of 316 Language & Linguistic Science at the University of York in accordance with the University's 317 ethical framework

317 ethical framework.

318 **3.2 Selection criteria**

319 Like breathing, swallowing is a somatic function which mostly goes unnoticed. Not all 320 in- or exhalations are audible; and not every swallow is audible or visible either. Therefore 321 the focus of this paper is moments in talk-in-interaction where swallowing is either 322 noticeably (which is not to say *deliberately*) visible or audible, or both. This means that there 323 are many instances of swallowing in the data sources which are not (and cannot be) 324 included in this collection. This is an inevitable consequence of the fact that swallowing is 325 only sometimes perceptible to an observer. While it means that the analysis is not 326 exhaustive and does not account for all occasions on which people swallow in interaction, 327 the resulting situation is comparable with that of breathing in conversation, where the in-328 or out-breaths that can be observed are the ones which are transcribed are available for 329 analysis. It is a reasonable assumption that swallows which cannot be observed are 330 predominantly vegetative.

331 3.3 Transcription

332 Transcripts mark accentuation and intonation following the GAT conventions for

333 English (Couper-Kuhlen & Barth-Weingarten, 2011). Swallowing and other physical

334 activities are presented between double parentheses, with the duration, where available,

335 presented first. Concurrent bodily activities are shown with a '+'.

336 **3.4 Methods**

337 The data were analysed using the methods of Conversation Analysis and Interactional

338 Linguistics (see e.g. Clift, 2016; Couper-Kuhlen & Selting 2017). The main task of this

paper, as in Ogden (2020), is to establish what the more general principles are by which

340 such events are understood by participants, such as the sequential and rhythmical

- 341 positioning already seen in Example 1. For this reason, individual pieces of data were
- 342 considered with respect to aspects of their linguistic design, sequential positioning, and
- 343 participants' orientations to swallowing. Both visual and audible information were taken
- into account in the analysis in the case of video data.

345 **4. Swallows in the context of projecting more talk**

346 Swallows can occur where more talk is projected through syntactic, prosodic and turn 347 organisational structures. In these cases, they are placed at points in the emerging talk that 348 suggest a sensitivity to syntactic and prosodic structures, and to the progressivity of talk.

In Example 2, talk is projected through the sequential organisation of an adjacency pair.

Judge Rinder (JR) is questioning a young man (YM) about his education. In this example,

351 YM does a swallow in pre-turn position after JR's first pair part.

352 Example 2: Rinder 18/01/2016:[11:50]¹

353 01 JR: were you in ONE foster home? were you i- or: in SEveral. 354 02 YM: SEveral. 355 JR: what qualify%CAtions did you leave SCHOOL with;% 03 356 %((opens mouth, looks away))-----% 04 YM: 357 05 .thh uhm ((SWALLOW CLICK)) uhm I didn- I didn't do very WELL in 358 06 sch001. 359 but I managed to get a BA. (.) in Art; which is my chOsen STUdy. 07 360

The Judge's question at line 3 presupposes that YM left school with qualifications. The first part of YM's answer in line 5 implies that he left without qualifications, thus indirectly rejecting the presupposition of the question. The second part of the answer in line 7 mentions a BA, not the kind of qualification obtainable at school; so in the end the answer does refer to qualifications, but not the kind targeted by the Judge's question. YM's answer overall, then, is a complex one, which among other things has to deal with a problem in the presuppositions of the question.

This complex answer is preceded in pre-beginning position by a number of audible and visible articulations: he turns his head and opens his mouth to breathe in in overlap with JR's question; this results in a percussive with an in-breath (.thh), and is followed by a

¹ Judge Rinder, 14:00 18/01/2016, ITV London, 60 mins.

https://learningonscreen.ac.uk/ondemand/index.php/prog/0B221B3E?bcast = 120939256 (Accessed 15 Jan 2021)

hesitation particle ('uhm'). These index incipient speakership, and thus display an

- 372 orientation to the relevance of talk. There is then a swallow that is released into a click
- 373 (arguably the most audibly salient part of the swallow from the participants' perspective),
- then another hesitation particle and a self-repair. So in this case the swallow is part of a
- 375 cluster of objects in pre-beginning position (Schegloff, 1996) which serve to delay the
- 376 verbal part of the answer, a typical feature of turns with dispreferred formats (Pomerantz
- 377 1984, Sacks 1987; for a more phonetically grounded account, see Kendrick & Torreira,
- 378 2015). The swallow itself is not audible, and so could be transcribed as a silence; but it is
- 379 clear from visual evidence and auditory evidence through the click that there is a swallow.
- 380 Swallows in this context are part of a family of practices like in-breaths, clicks and
- changes in body posture: they index 'preparing the vocal tract for speech', so displaying an
 orientation to the relevance of speaking now, while simultaneously delaying but projecting
 talk.

In the next example, a swallow is placed between two clauses. Here, a subordinate clause initiated with *when* is first extended with two conjunctions, then the speaker produces a swallow (line 8), released into some lip smack noises, before the main clause

- 387 (line 10).
- 388 Example 3: RCE 25 Bench 16:04 no funding

389	01	в:	is he AY ARCH- AY AITCH ARR CEE fUnded.
390	02		(0.9)
391	03	A:	< <p> he's not got Any funding.> (0.5)</p>
392	04		\uparrow did I not TEll you the (0.4) whOle STOry;
393	05	в:	< <p> no.></p>
394	06	A:	< <all> about him.></all>
395	07		.hh when I was in OXford,
396	08		and we met UP and we went out for DINner,
397	09		((1.3 SWALLOW LIPSMACKS))
398	10		um, we were CHAtti:ng, (0.75)
399	11		and () he mEntioned something about (0.9) the fact
400	12		that he (.) didn't have AHRC FUNdi:ng,
401			((continues story))
402			

403 In this example, the swallow is placed at a syntactic and prosodic boundary between 404 two clauses within a multi-clause sentence. The 'when' clause, extended with two 'and' 405 conjunctions, projects a main clause which has not yet been produced. The first clause at 406 line 7 sets the scene for the story projected at lines 4-6. It is extended with two subsequent 407 clauses in line 8, which extend the 'when' clause again. So the ends of the clauses in lines 7 408 and 8 project more talk syntactically and pragmatically, and there is no TRP in these places. 409 B does not make any move to come in during the gap where A swallows at line 9. The 410 syntactic positioning of this swallow is different from the one in Example 1, as it occurs 411 between two sentential clauses; it is closer syntactically to Example 2, where a swallow was

412 placed at a high-level syntactic boundary.

- 413 It is hard to ascribe an action to the swallow in this case. If swallowing is a somatic
- 414 requirement, then timing it so that it falls at a clause boundary means that it is less exposed
- 415 in the interaction than if embedded within a lower-level constituent such as between 'we'
- 416 and 'went' or 'went' and 'out'. This seems to be such a place: the coparticipant does not
- 417 treat this as a TRP, and the current speaker, A, treats this as a suspension of her talk which
- 418 is resolved by the syntactically fitted clause at line 9.
- 419 In Example 4, a swallow appears embedded within a TCU, at a major phrase boundary.
- 420 Will has repaired a jewellery box which he is returning to Karen. This box belonged to
- 421 Karen's grandmother, but Karen did not know the box's origin. Will has just opened the box
- 422 before he explains to Karen that he discovered a scrap of paper in the box which they take
- 423 as confirmation of the origin of the box.

424 Example 4: Repair Shop [20/07/2019, 24:04] Jewellery box² 425 interestingly eVnOU:gh, on the inVsI:de, 01 W: 426 02 ((SWALLOW)) there's some old NEW:Spaper. (.) 427 03 and I was trying to work out how ^OLD this `wA:s-428 where it CAME from. 04 429 05 K: yeah. 430 W: I thOUght it was iTAlian, 06 431 rIGHt? 07 K: 432 80 W: Olive wood, ninteen TWENties, 433 09 I actually found a little piece of PAper.= 434 10 =<<all> and I was thInking,> 435 "is this itAlian?" right in the mIddle it says "ROma". 11 436 so, OBviously:-12 437 so it IS Italian. 13 K: 438 14 W: yeah. 439 15 K: OK. 440 I thought I'd kEEp that there, just for a kEEpsake. 16 W: 441 that is GORgeous. it's BEAUtiful. 17 K: 442

In this case, the swallow is positioned within a sentence, at the boundary between a
fronted prepositional phrase and the rest of the sentence. Although this is a major phrase
boundary, the sentence itself is incomplete.

446 The two fronted adverbial phrases 'interestingly enough' and 'on the inside' are

447 produced as separate intonational phrases, each with a final fall-rise intonation contour,

- 448 which is commonly used to project more talk. The repetition of the contour facilitates the
- 449 hearing of these two phrases as belonging to the same larger hierarchical unit, while at the
- 450 same time projecting the rest of the sentence. Thus the placement of the swallow here
- 451 displays an orientation to the unfolding syntactic and prosodic units: it is located at major

https://learningonscreen.ac.uk/ondemand/index.php/prog/0EA6D962?bcast = 129746111 (Accessed 20 Apr 2020)

² The Repair Shop, 16:30 20/07/2019, BBC1 London, 30 mins.

boundaries where continued talk is projected through prosodic and syntactic structures, andKaren makes no move to come in at this point.

The swallow is positioned before material that completes the sentence, 'there's some old newspaper'. This turns out to be the key 'news item' in Will's turn in line 1: he goes on to explain how this discovery of the newspaper is what enabled him to establish the provenance and date of the jewellery box. This turns out to be news which receives a strongly positive assessment from Karen (line 17). As we will see in later examples, swallowing is frequently placed before talk which reveals something that is given an

460 affective value by the participants.

461 Example 5 is an example of swallowing during a word search, where the swallow is

462 positioned within a syntactic phrase and not at a major phrase boundary. A and B are

sitting next to each other on a bench. They have been talking about how someone they both

464 know has failed to get a research grant. The extract starts with B's contrasting story in

465 response, about how Belinda has been awarded a prestigious research grant. The swallow

466 appears in a word search initiated with 'uhm' and ended with a click before the searched-

467 for word — see Wright (2005) for further details of similar practices.

468 Example 5: RCE25 Bench 19:11 grant

469	01	В:	< <f> beLInda,> um —</f>
470	02		LUke was telling me yesterday that belInda gOt-uhm:
471	03		((0.7 SWALLOW)) ((CLICK)) a/[ei] (0.6) `GRANT
472	04		from the: (.) paul mEllon: center or the yale
473	05		center for british ARt to go Over: to: YALE
474	06		for a couple of mOnths,
475	07		and I think sh[e's leaving soon.
476	80	A:	[< <p>^wo:w.></p>
477	09		(1.3 A nods)
478	10	в:	< <p> (s *) > h I'd really [lIke tha:t.</p>
479	11	A:	[(* *)
480	12		I've not spOken to her for A:ges=
481	13		=I need to get in tOUch with [her.
482	14	в:	[(I) saw her like () two
483	15		months ago
484			

In line 2, B is part-way through a TCU when she signals suspension of her talk with
'uhm'. 'Uhm' often indexes upcoming problems in production (Jefferson 1974, Fox Tree &
Clark 1997), and as in other cases noted by Wright (2005) it marks the onset of a word
search stretch.

The [t] of 'got' is released with aspiration. 'Got-uhm' has two syllables of equal metrical weight, and mid level tones. Wright (2005: 191) notes that this is a common intonational feature of pre word search stretches, and that it is a device for projecting an upcoming focal accent. It matches many of the features described in Local (2004) for 'and-uhm' (see also Example 1). The talk is suspended at a point where the syntactic structure is also incomplete: the verb 'got 'requires a noun phrase as an object. Thus the syntactic and 495 phonetic design serve to suspend the progressivity of the talk while simultaneously496 projecting certain features.

497 After the [m], B presses her lips tightly together (a more extreme articulation than for 498 [m]; see Fig. 2), then swallows. As she swallows, her head and her gaze direction tilt 499 downwards. The swallow is released into a click, and the indefinite article that follows this 500 is in full form (reminiscent of Jefferson's 1974 observations on the full form of 'the', [ði], as 501 part of an error correction device). During the silence that follows this, the articulations are 502 visibly prepared for 'grant' – in particular, the lips can be seen to be rounded in anticipation 503 of [r]. (It is interesting to note that Wright, 2011: 220, on the basis of audio data, notes 504 other cases where speakers produce tight bilabial closures which are held for quite a while 505 before being released into percussives and/or clicks, often with an in-breath.)

B's gaze up to this point is away to the distance. However, she blinks and turns her head
towards B as she reaches *from the...* and her gaze is to A as she says 'Paul Mellon Center'.
So B's gaze behaviour during the part of the turn where the click is produced suggests that
she is still working on the production of her turn.

510 Swallows in word searches are one feature among others: hesitation particles, suspended 511 prosodic and syntactic features, a click on release of the swallow. Wright's (2005) 512 observations on audio data match these observations very closely: she notes that features 513 like these (including audible glottal closure, which must be present for swallowing) serve to 514 retain the turn, and a co-participant does not generally come in. As noted earlier, many 515 swallows are inaudible, and it is very likely that swallowing is a more common feature of 516 word searches than can be gleaned from transcriptions, where they are probably under-517 represented, especially in audio-only data.

518 Examples 2-5 show that swallows can be placed at a point where talk is projected. In 519 pre-turn position (as in Example 2), there are other features of delayed but incipient 520 speakership, and usually before the swallow. A swallow in pre-turn position may function 521 as a preparation for speaking: if audible or visible, it may be considered as removing the 522 vocal tract of unwanted liquid before speaking is possible. It may thus come to index 523 incipient speakership.

524 Where the swallows are located at syntactic and prosodic boundaries, these boundaries 525 have syntactic, prosodic or sequence-organisational features that project more talk. These 526 features appear before the swallow, making the silence during the swallow less susceptible 527 to incoming talk from a co-participant. Although the progressivity of talk in these cases is 528 temporarily halted, its completion is projected. It is noticeable that most of these swallows 529 have an audible release, with clicks and lip smacks quite common. These sounds have been shown to project further talk (Kosmala, 2020; Ogden 2013; Paschen, 2019; Pinto & Vigil 530 531 2019).

532 Co-participants do not treat the gaps in talk that result from swallowing as TRPs.

All these features suggest that speech and swallowing are planned together: swallowing is not merely a somatic feature, independent of speech; but is rather intertwined with it. Swallows seem to come at a point after which further talk has already been projected.

536 **5. Swallows in the context of projecting no more talk**

537 Swallowing also occurs in the context of projecting no more talk by the same speaker, 538 thereby yielding the turn space. Many of these cases feature tightly closed lips, without 539 subsequent lip smacks or clicks (an audible sign of release). Such swallows occur at points 540 of syntactic and/or prosodic completion, including turn-final position. In these cases, 541 swallowing serves as a non-verbal extension of a prosodically and syntactically complete 542 TCU, similar to other post-completion expansions such as sighs (Hoey 2014), clicks (Ogden 543 2020) or sniffs (Hoey 2020a), or a change of facial expression (Kaukomaa, Peräkylä and 544 Ruusuvuori, 2015). According to Schegloff (1996: 90) minimal post-expansions bring a TCU 545 to a close and offer a speaker to display "retroactive alignment towards it, or the 546 consequences of it". Swallows seem to index again that the just-finished TCU is in fact 547 complete. 548 Example 6 illustrates this well, where a sequence-closing third is followed by a swallow

549 (line 21), and then a new sequence of action is initiated.

550 Example 6: RCE25 Bench 06:14 Lawrence Sterne's burial place

```
551
      B has just mentioned Shandy Hall.
552
      01
           A:
               Oh, okay.
                          is thAt where lAUrence stERne is BURie:d?
553
      02
                (1.0)
554
      03
               ↑↑I dOn't KNO:W.
           в:
555
      04
                (0.9)
556
      05
           B:
               I think [so-
557
                        [cause I know my PArents: (.) went
      06
           A:
558
                ((1.1 rocks head side to side)) SOMEwhe:re, (0.8)
      07
559
               um (...) on their WA:y (...) to YOR:k; (0.5)
      80
560
      09
               and (.) they said, "O:h, we've just been to (0.8) see
561
      10
               laurence sterne's GRA:VE."
562
               Well, PO:Ssi[bly, and I think that's where he] `WROTE
      11
           B:
563
      12
                            [<<laugh> that's
                                                      LOVEly.>]
           A:
564
           в:
      13
               tristram SHA:ndy, but (.) [I'm not (0.6)
565
      14
           A:
                                           [mm.
566
      15
           В:
               <<cr> enTIRely CERtain,>
567
      16
                (1.4)
568
      17
           A:
               [mm
569
      18
           B:
               [((mouths something))
570
      19
           B:
               <<laugh, nod>> if he's STILL THE:Re.>
571
      20
                (0.4)
572
               <<p>yEAh.>
      21
           A:
573
      22
               [((1.2 SWALLOW))
           A:
574
      23
               [((3.8 B drinking from her can; A looking ahead))
575
      24
               <<p>mm.>
           A:
576
      25
               <<laugh> I'm gonna TRY not to drInk tonIGHt,>
```

577 578

26

((laughs)) I think I need a night OFF.

579 A initiates an adjacency pair in line 1. There is a rather complex and non-aligned 580 sequence in response, but 'I'm not entirely certain... if he's still there 'in lines 13-19 581 provides a lexically and syntactically fitted answer from B, and is identifiable as the second 582 pair part to line 1. A's 'yeah 'in line 21 is a sequence closing third (Schegloff 2007). It is 583 followed by a swallow which is not accompanied by any click, lipsmack or in-breath, i.e. 584 there are no signs that this swallow prefaces further talk immediately. Then there is a lapse 585 during which B drinks, and both A and B look away from each other. Hoey (2020b: 110 ff.) 586 shows that drinking can be used "as a display of the speaker's commitment to unit 587 completion", and in this case it is an alternative to expanding the sequence. At line 25 A 588 initiates a new topic. Thus A's swallow at line 9, and B's drinking at line 10, serve to 589 underscore the closure of the question-answer sequence which is started at line 1 and 590 verbally finished at line 21: the swallow is a physical action done on completion of a 591 sequence-closing turn, and is one of the non-verbal features that mark the closing of the 592 sequence.

In Example 7, Valerie is having a prize cup returned to her which her dad had won as a young man, and is the only such item she has left of his athletics career. For her the value of the repair to the cup makes up for not being able to 'indulge 'him while he was alive (line 23).

597 Example 7: Repair Shop [21/4/19 40:01] China cup³

598	01	в:	do you want to see what 'I've managed to 'DO? (.)
599	02	Val:	[do please
600	03	в:	[or wE've managed to do?
601	04	Vic:	yes plEA:se.
602	05	В:	((lifts the cover off the cup))
603	06	Val:	[& GASPS &]
604		val	&hand to mouth; sobs&
605	07	Vic:	[< <f> wOw.>]</f>
606	08		(3.0)
607	09	Vic:	100h.
608	10	Val:	Oh, that's < <sob> ^BEAUtiful.></sob>
609	11	Vic:	↑that's `BRILliant.
610	12	Val:	↑Oh, that's Dad's ^SIGnature.
611	13	Vic:	↑O:h; ↑^WO::₩.
612	14	Val:	isn't that `LOvely; haٍ:h
613	15	Vic:	that's REA:lly `GOOD.
614	16	Val:	< <sob,p> it IS, isn't it?></sob,p>
615	17		you knOW, Brenton, you ASked me what that mEAnt to mE:,
616	18		and I said .h at the time that it represEnted dad's

³ The Repair Shop, 14:00 21/04/2019, BBC1 London, 45 mins.

https://learningonscreen.ac.uk/ondemand/index.php/prog/135AFBDB?bcast=128953867 (Accessed 11 May 2020)

617	19		athLEtic caree:r,
618	20		but it means m- much MO:re than that to mE:, nOW,
619	21		my fAther died at the Age of fifty THREE. in nineteen SEventy.
620	22		because Dad's died so YOUNG,
621	23		we weren't able to indulge our FA:ther as we had our MOther.
622	24		.h but NOW. what you've done to that CUP. it makes me feel
623	25		.ptH that we've done something for < <sob> dad as WELL.></sob>
624	26		((TIGHT LIPS, SWALLOW))
625	27	в:	that's good.
626	28	Val:	< <sob> •and it is really</sob>
627		b:	•approaches Val>
628	29	Vic:	yeah.
629	30	Val:	•thAnk you Brenton.
630		b:	•hugs Val>
631	31	в:	⁢'s been a pleasure doing it.•&
632		b:	>•
633		Val:	&sobs&
624			

634

635 Valerie's turn, lines 16-25, is complex. It starts with a recollection of an earlier 636 interaction with Brenton, and launches a longer sequence where she contrasts her current 637 feelings with her feelings earlier. In line 23, she contrasts her relationship with her mother 638 with the one with her father, and introduces a sense of regret about her relationship to her 639 father. At lines 24-25, she starts to describe how her feelings have changed. In just the place 640 where she might verbalise her feelings ('it makes me feel...'), there is a gap, and an in-641 breath initiated by an opening of her lips (.pth): this perturbation in the progress of the 642 TCU already hints that she has trouble putting her feelings into words; it is clear from her 643 face that she is starting to cry.

The TCU at lines 24-25 is syntactically and prosodically complete, though fragmented. It
ends with her sobbing as she speaks, and at the end of the TCU she closes her lips tightly,
and swallows.

Brenton treats this TCU (and with it, the longer telling started at line 17) as complete by producing a summary assessment at line 27 which Valerie's brother acknowledges at line 30. The tight lips and swallow at line 26 seem to display Valerie's inability to say more while displaying (but not verbalising) in post-completion position her emotional investment in the repair she has had done: the swallow comes in the context of what for her is an emotional event. Brenton orients to Valerie's display of strong emotions by going to hug her (lines 28-30).

In this case, then, swallowing is treated as marking the ending of a longer turn, which is a telling about strong and complex emotions, which are not easily verbalised by the speaker and which are interwoven with sobs. We consider the affective work of swallows more in the next section.

658 Given that swallowing requires complete lip closure and is incompatible with speech, 659 post-completion swallows indexically reinforce the completion of a turn. In Examples 6-7, swallows present the talk in the prior turn as finished: the TCUs are complete syntactic and
prosodic units, and they present complete recognisable actions which are treated as such by
the participants.

663 In this section, I have shown that the positioning of swallows displays sensitivity to 664 ongoing sequential, syntactic and prosodic units. In the next section, I will show how

665 swallowing contributes to the display of affect within turns: that is, swallowing can

666 laminate turns at talk to display something about the speaker's inner state.

667 6. Swallowing and affective displays

668 In some of the examples considered already, swallows are present in turns where a 669 speaker displays an affective stance. Example 2, 'neglected young man' is not merely an 670 answer that challenges the presuppositions of the question; in challenging the 671 presupposition of the judge's question - that normally one leaves school with qualifications 672 - the young man also publicly admits failure to a person in authority, before explaining a 673 success. In Example 7, China Cup, Valerie talks about her satisfaction in making up for 674 something they had not been able to do for her father before he died. There are elements of 675 pleasure, gratitude and sadness in her response to the repaired cup.

676 In the examples considered in this section, I look more closely at some of the affective 677 displays in the context of the swallowing. Common to several of these examples is a 678 temporary display of being 'lost for words'. Other co-occurring features are facial 679 expressions that display trouble; and lexical choices that tend towards extreme case 680 formulations (Pomerantz 1986). There are also instances of sobbing or crying, which both 681 generate fluid in the vocal tract. This fluid needs to be removed from the vocal tract in 682 order for speech to be possible; so swallowing commonly occurs in this environment (cf. 683 Hepburn 2004).

In several of the cases we will see, the swallow comes before the display of affect, and so can be seen as a kind of projection device. This is reminiscent of the 'guttural' sounds observed by Jefferson (2010), which she analyses as sometimes 'laugh-premonitory' (Jefferson 2010: 1478). Swallows, in a similar way, may be understood as connected to sobbing or crying, though of course the kinds of laryngeal and pharyngeal constrictions that Jefferson described as 'guttural' are associated with laughter are compatible with speaking (Chafe, 2007; Esling, 2007), while swallowing is not.

We start with an example with a swallow in pre-turn position. In Example 8, Michael is collecting a Portuguese guitar that had belonged to his grandmother. When he brought the guitar in, he told how his grandfather had serenaded his grandmother with this guitar; and he described his grandmother as his 'hero', 'best friend', and the guitar was one of her 'treasures'. 696 Example 8: Repair Shop 7/8/19 [36:50] Portuguese guitar⁴ 697 01 D: hi MICHael? 698 02 М: helLO? 699 03 nIce to SEE you agAIn? D: 700 04 And YOU? М: 701 05 D: so... ↑do you wanna SEE it? 702 06 I can't WAIT. М: 703 07 <<laugh> gOOd.> D: 704 \uparrow hOpe you're going to be \downarrow PLEASed. 80 705 09 ((reveals the guitar)) D: 706 10 М: %↑it's \$comp`LE:TE. Hah\$ (1.0)% 707 %smiles----% 708 11 % and it's ↓SHI:ny. % 709 ((face not visible))% 710 I'm jUst a little bit %taken aBACK Actually:, it's: ??? (...) 12 711 %frowns-----712 13 to see it comPLE:TE-713 14 (...) ?is ?də?də it's- it has? (...) 714 15 ?it looks HAppy. 715 16 I feel really RUDE that I'm \$not << laugh> looking at [YOU:.\$> 716 17 [<<laugh>-D: 717 18 [I just... I can't take my EYE:S off of it.] М 718 [<<laugh>----->] 19 D: 719 20 it- I- I'm just (...) blown aWA:y. 720 21 well, you- you talked about it as your grandmother's (.) D: 721 22 TREAsure. 722 23 ((SWALLOW %TIGHT LIPS)) <<p>↓ yEA:h,> % (..) М: 723 %nods-----% 724 it really WA:S. 24 725 25 I knOw there's more to the stOry: (..) 726 arOUnd this than than I KNO:[W. 26 727 27 D: [mm 728 28 it's a little bit hEArtbreaking that I don't М: 729 29 KNOW that whO[le stO[ry, 730 30 D: [mm . [mm. 731 but she GLOWed when she used to (.) tEll me abOUt thI:s. 31 М: 732 32 you've gIven me bAck (...) a ↓MEmory. 733 33 THANK you. 734 735 At line 9 Michael sees the repaired guitar. Initially he produces two assessments of it 736 ('complete' and 'shiny'), which are coproduced with smiles (\$). At line 12, his smile changes 737 to a frown. He then produces a number of syntactic frames for assessments, all of which

have perturbations in the production, and there is no assessment term in the slot where one

term could be placed (lines 12, 14, 18 and 20) — he displays difficulties in verbalising how

⁴ The Repair Shop, 19:00 07/08/2019, BBC2 England, 60 mins.

https://learningonscreen.ac.uk/ondemand/index.php/prog/142B6002?bcast=129858708 (Accessed 20 Apr 2020)

740 he feels.

741 At lines 21-22, David invites Michael to reminisce about the guitar's connection to his 742 grandmother. This reminiscence is already projected as an emotionally charged one with 743 the word 'treasure' to refer to the guitar - the term that Michael himself used when 744 bringing the guitar in and describing his affection for his grandmother, and her relationship to the guitar. This turn is framed as an assessment where the speaker has lower epistemic 745 746 authority than the recipient, thus making a response from Michael relevant. Michael's 747 response at line 23 is initiated with his lips visibly closed and pressed tight together, 748 nodding - an embodied and immediate confirming response - and then a swallow, which 749 displays a temporary inability to talk, and serves to delay the verbal part of his response. 750 His 'yeah' is produced quiet, and low in his pitch range, a contrast with his prior talk, 751 perhaps marking that this talk is on a different footing from earlier talk. 752 As we saw in Example 7, at a moment where an affective display has been made

relevant, Michael displays a temporary inability to verbalise, which is also congruent with his earlier difficulties (cf. Wilkinson & Kitzinger 2006, who consider some cases where people are 'lost for words'). Michael's turn at lines 25-31 is an account of his lack of knowledge of precise details. In the turn, he uses a strongly valenced term, 'heartbreaking' to express regret; he reminisces about how his grandmother related to the guitar ('she glowed'); and he expresses his gratitude for the repair.

In this example, a swallow comes in response to an invitation to share an emotionally charged memory. While the detail of Michael's affective stance is unspoken, the swallow seems to be one device, in pre-turn position, that projects something about the quality of the upcoming talk.

In Example 9, the swallow is postpositioned. Karen has returned to collect a wooden
jewellery box that has been repaired. The box has some inlaid birds, which are fragile.
When the box was first brought in for repair, Will expressed worries that he would not be
able to clean the box without damaging the birds: so there is a risk that the repair has not
been successful. This is alluded to in lines 9-13.

768 Example 9: Repair shop 20/07/2019 [23:13] Jewellery box⁵

769	01	K:	hi there
770	02	W	hello
771	03		((some material edited out))
772	04		((The box is on the table, covered up.))
773	05	W :	so:. () beFORE you have a VLOO:K, I just wanted to VSAY,
774	06		I started cleaning the VBOX,
775	07	К:	<pre>yEAh(p°), ((SWALLOW))</pre>
776	08	W:	a:nd uh- (.) I cleaned (.) the bORder around the $\uparrow <<\! f\! >$ TOP?>

⁵ The Repair Shop, 16:30 20/07/2019, BBC1 London, 30 mins.

https://learningonscreen.ac.uk/ondemand/index.php/prog/0EA6D962?bcast = 129746111 (Accessed 20 Apr 2020)

777	09		I wasn't too SURE or NOT to (.) clean the CENt[re,
778	10	К:	[< <mouths> right></mouths>
779	11	W :	where the bIR:ds were.=
780	12		=cause I was worried about .h removing the <code>↑BIR:DS</code> and
781	13		everything Else.
782	14		bu:t, I gave it a VGO,
783	15	\mathbb{W} :	removes the cover from the box
784	16	К:	OH. ∨WO:W?
785	17		oh. I'm FLABbergasted.
786	18	W :	Yeah?
787	19	К:	Yeah, it's absolutely LOVEly, yeah, it's < <f> fanTASti:c.></f>
788	20		I'm really PLEASed with that, () yEAh.
789	21	W:	you can actually (.) SEE them now.
790	22	К:	you can actually SEE them.

791

792 At line 5, Will projects a news delivery (Freese & Maynard, 1998; Maynard & Freese, 793 2012), the first part of which comes in line 6. The revealing of the repaired box is being 794 delayed, so lines 5-6 could be heard as a prefatory account for disappointing news, given 795 the warning when the box was brought in that cleaning it might damage the birds. Karen's 796 'yeah((p)' at line 7 acknowledges this preface to news, in a lexically minimal way; with no 797 lexical material, this turn has a provisional character in response to the projected news 798 (Freese & Maynard 1998: 209). It also lacks many of the features identified by Freese & 799 Maynard (1998) as associated with the receipt of 'good' news, such as high amplitude and 800 high pitch register. The post-positioned swallow, with the tightly closed lips, displays that 801 Karen has no more to say (see Raymond 2010 for discussion of 'nope' with similarly 802 minimal features and noticeable bilabial closure). While it gives the go-ahead for Will's next 803 turn, the minimal design of this turn seems to mark her readiness to receive news that 804 might not be good, i.e. treating Will's pre at line 6 as a preface to potentially bad news. 805 Will's next turns also orient to the potential for a bad outcome through his description of 806 his careful cleaning process (lines 8-14). 807 In fact, when Will reveals his work at line 15, it turns out to be treated as 'good' news 808 (lines 16-17, 19-20), and is receipted with dynamic intonation contours, a wider pitch span,

and strong lexical formulations ('flabbergasted', 'absolutely lovely', 'fantastic').

So in this case, a post-positioned swallow with tightly closed lips indexes both 'nothing
more to say' and in conjunction with the minimality of the turn and its absence of high
pitch, high register intonation, it displays an orientation to the possibility that Will's

813 projected news delivery will be 'bad' news.

814 **6.1 Swallowing as part of a display of trouble**

Example 10 contains an example of a swallow which is embedded within a longer turn

816 that displays trouble. Anne and John are discussing what Anne can do with a chapter she 817 has written.

818 Example 10: RCE14 Colleagues 00:22:42 ELR

819 01 Anne: no I wAs gonna A:SK you actually,= 820 02 =cos I wAs gonna send the: italian cOnvert piece 821 to: (.) ee ell ARE ①. 03 822 04 f(0.8 SWALLOW2 + scrunched up eyes) f 823 £hand lifted from table and clenched))f 824 05 CLICK m- a:nd (0.4) got VERy confUsed by w- (.) the Em ell EY 825 06 £REferencing stuff. 826 £facial display of 'trouble'③--> 827 07 £CLICK oh I'll be HAPpy to look thrOU[ghf it with you John: 828 anne _>£ 829 08 Anne: [<<all> is that alRIGHt> 830 09 because I uhm-831 it's pretty SIMple. 10 John: 832 11 Anne: because I s[aid the-833 [or at- at lEAst it's the One I knOw BE:ST. 12 John: 834

The sequence begins with Anne making a pre-request (line 1). This is followed by an account for the upcoming request at lines 2-3, which ends with the name of the journal she plans to send the paper to. John does not respond to this pre-sequence. Anne follows it at line 4 with a swallow, along with other physical, visible evidence of 'trouble': scrunched up eyes (Figure 3), and her hand is moved to being clenched.

As in other examples, the swallow is placed after a syntactic and prosodic boundary, in this case after a point of syntactic and prosodic completion. There are no obvious signs of trouble in the talk-so-far, though there are a few possible candidates. First, a request for help may in itself be a sign of trouble, something that the requester cannot do for themself. Secondly, by identifying the journal, Anne might be drawing on shared knowledge about the challenges of a successful submission; but that is not explicit.

The next verbal part of her turn, lines 5-6, identifies her trouble ('very confused') and explains what is causing her difficulty, and is followed in line 6 by another facial expression that displays trouble (Fig. 3). John's offer at line 7 orients to Anne's verbal account and visual display of trouble. Anne then orients to the possible imposition his offer will cause him (lines 8, 9, 11).

851



852

Figure 3. 1: End of line 3, "ELR". 2: Swallow at line 4. 3: Line 6: sides of the mouth turned down,

So the swallow at line 4, along with other physical displays, is part of a gestalt that embodies and projects a trouble which is later verbalised, and brings it to the surface of the interaction.

858 In this case the swallow, along with other physical features of production, laminates the 859 evolving action of making a request, displaying 'trouble' or 'difficulty' with something she 860 needs help with. The physical display and verbal account of trouble contribute to recruiting 861 John's offer in response (line 7) (Kendrick & Drew, 2016). The swallow and accompanying 862 facial expression, and the facial expression in lines 8-9 form a gestalt that displays' trouble ' 863 in a way that is much less obvious from the linguistic design of Anne's turn. Thus the 864 swallow, with its accompanying facial expression, and then the facial expression at line 8 865 contributes to the addition of a sequentially relevant affective dimension to the formulation 866 of the ongoing action. As in other cases, the position of the swallow is sensitive to the 867 unfolding syntactic and prosodic structures, and to the actions that they implement.

868 **6.2 Swallowing and crying**

869 It has been claimed that swallowing commonly co-occurs with crying (Hepburn 2004:

870 286). This is perhaps unsurprising, since crying generates fluids that need to be removed

871 from the vocal tract, and swallowing does this. Crying is a sign of a heightened emotional

state; so swallowing can be part of such a display. In Example 7, Valerie's swallowing comes

873 before she sobs, but sometimes crying and swallowing are concurrent.

Example 11 illustrates one such case. Here, a young man has used a large sum of his mother's money to have his back tattooed with an image she finds obscene. This image has just been shown to the court, and the mother has just wiped a tear from her eye.

877 Example 11: Rinder 24/04/2018 [21:33] ⁶

```
878
           JR: hOw does it fEEl knowing that hE had (.) held out to you
      01
879
      02
                he was going to use that money to pay you BACK;
880
      03
                .h and instEAd he did THAT.
881
      04
                och ooh I was FUmi:ng;
           М:
882
      05
                disGUSte:d;
883
      06
           J:
               mm
884
                I would nEver fo- forgIve him for dOing thAt,
      07
           М:
885
      80
                he knew ((unclear; crying))
886
      09
                ((sniff))
887
      10
                he's wrEcked his BOdy;
888
                CLICK he mAy have wrecked his BOdy,
      11
           J:
889
      12
                that's HIS prob°lem°.
890
      13
                what about YOU.
```

⁶ Judge Rinder, 14:00 24/04/2018, ITV London, 60 mins.

https://learningonscreen.ac.uk/ondemand/index.php/prog/112642D9?bcast=126592563 (Accessed 15 Jan 2021)

891	14	М:	(terri-) DEvastated over i:t. ((SWALLOW))
892	15	J:	.hh what does it mean to YOU nOt to have that that fOUr
893	16		thOUsand POUNDS.
894	17	М:	.h well I TRUSTed him.

895

The judge first enquires about the mother's emotions (line 1). This is done so as to present the young man's behaviour as blameworthy (line 3), i.e. siding with the mother's stance towards her son. In response to this question, the mother describes her feelings using the strong terms 'fuming' and 'disgusted' (lines 4-5), and the grave, unforgivable nature of what he has done (line 7).

At line 8, she starts another TCU with 'he knew', but then her speech becomes indistinct as she begins to cry. Unlike many cases of swallowing, where the swallow seems to be carefully placed so as not to disrupt the syntax, the crying here is embedded within an ongoing turn, which continues alongside the crying. It thus seems to be a spontaneous outpouring of emotion (cf. Wilkinson & Kitzinger 2006).

At lines 11-13 the judge acknowledges her assessment by recycling her extreme case formulation ('wrecked his body'), and with his question at line 13 provides her with an opportunity to focus on her feelings. She makes a summary assessment ('devastated', line 14), which is followed by a swallow.

910 The Judge treats this swallow at line 14 as a sign that the TCU is complete. He initiates 911 a next action at line 15, with a new first pair part on the effect of the young man's actions, 912 and the sum of money.

913 M's post-completion swallow comes in the context of strong emotions identified verbally 914 and displayed physically throughout the sequence through crying. While the crying co-

915 occurs with speech in line 8, the swallow is post-positioned after a prosodically,

916 pragmatically and syntactically complete TCU in line 14. It occurs at what turns out to be

917 the termination of question sequence and the progression to the next. Thus this swallow

918 handles both matters of sequential organisation and affective display.

919 Examples in this section and elsewhere in the paper show swallows as a part of displays 920 of affective stance. Experimental findings that the rate of swallowing increases with 921 heightened emotional arousal cannot be verified through this data, but the data support the 922 finding that swallowing occurs in such environments. What conversational data adds is an 923 understanding of the complex of linguistic and bodily resources available to participants in 924 such displays; and CA more particularly shows that bodily actions like swallowing are 925 precisely and delicately timed with other ongoing activities in interaction. Swallowing is by 926 no means the only resource for laminating an ongoing activity with an affective stance; but 927 because of its association with sobbing and crying, it is reasonable to claim that swallowing 928 can index the same kinds of emotional states as sobbing and crying.

929 **7. Discussion**

In this paper, I have considered the positioning of swallows in talk. I have focused on
three main aspects: swallows in the context of projecting more talk; swallows in the context
of projecting no more talk; and the association of swallows with affective displays.

Like sighs (Hoey, 2014), sniffs (Hoey, 2020a), and clicks (Li 2020; Ogden 2013, 2020;
Pinto and Vigil, 2020; Wright 2011), swallows are placed in ongoing talk in a way that
displays sensitivity to emerging syntactic and phonological structures. This placement
suggests at the very least that linguistic and somatic functions are planned in parallel:
swallows do not occur randomly distributed in speech, but are rather precisely placed with
respect to the linguistic and turn constructional units of organisation.

Many cases of swallowing in talk are inaudible, or barely audible. It seems very likely
that some 'silences' are in fact occasions on which participants swallow: silence does not
necessarily mean inactivity, as we know from multimodal studies of interaction.

While the sounds of swallowing are low in amplitude, swallows can be made audible bythe events just before and after the occurrence of the swallow.

944 I showed that it is common for swallows that occur in a context where more talk is 945 projected to be released with audible clicks. A stretch of talk like that shown in Example 1 946 ('and-uhm ((0.62 SWALLOW CLICK)) I think') is a specialised kind of 'closure piece' (Kelly 947 & Local 1986): an intonation contour is suspended at the onset of the piece; the lips are 948 closed for [m] in 'uhm' and simultaneously to produce the swallow. Whereas Kelly & Local's 949 'closure pieces' have silence at their centre, these stretches of talk have a swallow in the 950 portion where talk is suspended: so while there might be silence, there is physical activity 951 which temporarily makes speech impossible. The closure for the swallow is released with a 952 click when the talk is resumed.

953 Swallows are frequently released into lip smacks or clicks, which have been shown 954 elsewhere to project further talk. Arguably, because clicks and lip smacks are more audible 955 than swallows (which are often also difficult to see), prior research has underplayed or 956 ignored some swallows, focusing on the auditorily salient clicks instead. Rather than think 957 of such stretches as (silence + click), it is probably more accurate in many cases to treat 958 them as (swallow + release), where the release may be noisy. Some clicks, then, may be 959 best understood as the audible release features of a swallow.

960 On the other hand, the inaudibly released bilabial closures in 'yeap ((SWALLOW))' and 961 'nope ((SWALLOW))' serve to mark no continued talk by the speaker: these cases have 962 phonetic features of turn-finality (Local & Walker, 2012) and that includes the absence of 963 an audible release to the closure required for a swallow. So the phonetic and prosodic 964 details of talk around swallowing – before, during and after – make a significant 965 contribution to the progressivity or suspension of talk. 966 Swallowing removes liquid from the vocal tract. Since a clear vocal tract is a 967 precondition for speaking, swallows form a natural class with other visible or audible 968 preparations for talking, and can be used as a practice to delay the onset of talk, while 969 simultaneously displaying an orientation to the relevance of talk. Seeing swallows and other 970 preparations for speaking (like taking an in-breath, adjusting the body posture, or the 971 audible separation of articulators) as a natural class that displays an orientation to the 972 relevance of talk while not talking (yet) gives an explanation for their positioning in pre-973 turn position, and provides co-participants with a way to understand one another's 974 behaviour and adjust their own conduct accordingly.

975 In the absence of instrumental data, or imaging, it is not possible to speculate on what 976 is happening inside a speaker's vocal tract, e.g. whether it is dry, or how saliva builds up. A 977 more thorough-going phonetic and physiological study would be needed to answer this 978 question. Nonetheless, the point remains that the audible and/or visible removal of fluid 979 from the vocal tract by swallowing seems to be one way to index incipient speakership.

These observations point to the kinds of resources and practices participants in interaction have to make sense of a bodily activity which may be somatic in origin, but which may come to be implicated in other kinds of communicative practice. They also highlight the importance of observing the phonetic details not just of swallowing per se, but of the surrounding talk, and relating these observations to more general knowledge about the phonetic features of talk.

Swallowing can often be seen: tightly closed lips, the rise and fall of the larynx andaccompanying facial expressions have all been noted in the data in this paper.

988 Closed lips – normally visible even when the rise and fall of the larynx during 989 swallowing is not – can be used to make visible that the speaker is unavailable to speak or 990 (when positioned after the end of a turn) has nothing more to say. This basic feature of 991 swallowing provides coparticipants with a visual cue as to what is going on in the current 992 speaker's vocal tract. It was also shown that the lips are not just closed, but often tightly 993 closed in a posture that is not used for the production of bilabial speech sounds like [m], 994 [b], or [p].

995 The rise and fall of the larynx, and straightening of the pharynx, are (like the sounds of 996 swallowing itself) not necessarily available: the swallow might be too fast, or there might be 997 clothing that obscures sight of the swallower's neck, or the camera angle might not allow it. 998 However, where this is visible, it can form part of the audible/visible gestalt of swallowing. 999 The visible cues of swallowing can thus index unavailability to speak.

Facial expressions are sometimes used alongside swallowing (as in Example 10) to laminate the unfolding talk with a visible affective display along the lines of Peräkylä & Ruusuvuori (2012). Experimental findings that show that the rate of swallowing increases with emotional arousal (Fonagy & Calloway, 1985; Cuevas et al. 1995). In these cases, 1004 swallows seem to form a gestalt with other bodily actions. The absence and unavailability 1005 of speech coupled with other bodily conduct accompanying swallowing is a resource that 1006 participants can use to display trouble without verbalising it. 1007 In short: the semiotic affordances of the audible and visible aspects of swallows can be 1008 exploited in speech: the incompatibility of speaking with swallowing, visibly tightly closed 1009 lips, and aspects of the release of swallows such as clicks, all have indexical value in speech. 1010 When it comes to the placement of swallows relative to syntactic structures, there is a 1011 close relation between possible syntactic completion points and issues of projection, which 1012 are also intimately bound up with prosodic design. I present simplified versions of the data 1013 here, and use square brackets with labels, $_{XP}[....]_{XP}$, to surround syntactic phrasal units. 1014 Firstly, swallows occur in pre-turn position, before the onset of lexical material: 1015 1016 Example 2: .thh uhm SWALLOW CLICK uhm _s[I didn't- I didn't do very well in school] 1017 s 1018 Example 8: SWALLOW RespToken[yeah] RespToken 1019 1020 Secondly, swallows occur on the completion of talk: 1021 1022 Example 7: _s[We've done something for dad as well]_s SWALLOW 1023 Example 11: AP [Devastated over it] AP SWALLOW 1024 Example 9: RespToken [Yeah] RespToken SWALLOW 1025 1026 In both these positions, the swallow does not interrupt the progress of the current unit, 1027 and it is positioned after the syntactic phrase boundary; and the current unit is recognisable 1028 as a complete TCU. 1029 In other cases, swallows are embedded within TCUs. In principle, swallows could occur 1030 anywhere, but they always occur between words (and in this data never in the middle of a 1031 word). This alone displays that 'word' is treated an indivisible unit by the person who 1032 swallows. 1033 Swallows may be positioned within a phrasal constituent, such as within a verb phrase 1034 (VP): 1035 1036 Example 5: ${}_{s}[{}_{NP}[Belinda]_{NP} {}_{VP}[_{v}[got]_{v} - uhm SWALLOW {}_{NP}[a (0.6) grant]_{NP}]_{vP}]_{s}$ 1037 1038 Taking a rather classical approach, the swallow here is positioned between the verb (V) 1039 'got', which requires a noun phrase (NP) as an object to make a verb phrase (VP), which is 1040 an obligatory element of a sentence (S) in English. So here the swallow is located at a point

1041 of syntactic incompletion: in the middle of a VP. The presence of 'uhm' indicates the 1042 suspension of the ongoing VP; and the intonation is suspended at this point too. 1043 In Example 4, the swallow is placed between a fronted prepositional phrase before the 1044 subject and complement of the sentence. This is not at a point of syntactic completion (and 1045 not at a TRP), but at the boundary of a PP, and before one of the obligatory elements of a 1046 sentence: 1047 1048 Example 4: $_{S}[_{AdvP}[Interestingly enough]_{AdvP PP}[on the inside]_{PP} SWALLOW _{NP}[there]_{NP}$ 1049 $_{\rm VP}$ ['s some old newspaper...] $_{\rm VP}$]_s 1050 1051 Other examples like these, with different kinds of syntactic units but all of the general 1052 form XP (to generalise over NP, VP, AP, etc), are also found in examples in the literature: 1053 1054 Schegloff (1988: 226): _s[_{NP}[A member of your own staff, Mr Craig Fuller]_{NP} SWALLOW 1055 $_{\rm VP}$ [has testified...] $_{\rm VP}$]_s 1056 1057 Rossi (2015: 41-42): 1058 _s[_{NP}[Io e la Lidia]_{NP} SWALLOW _{VP}[abbiamo prima raccolto i soldi]_{VP}]_s 1059 $_{\rm S}[_{\rm NP}[Lidia and I]_{\rm NP}$ SWALLOW $_{\rm VP}[collected the money first]_{\rm VP}]_{\rm S}$ 1060 1061 In all these cases, the syntax projects more to come, and the talk contains other features that project that further talk. In cases like Example 5, where the swallow comes within a VP 1062 1063 and after 'uhm', the intonation contour is suspended, whereas in examples like Example 4, 1064 where the swallow comes after an PP boundary, the intonation contour (a fall-rise) is 1065 complete, but together with the syntactic incompleteness serves to project further talk. 1066 This sketch of the syntactic positioning of swallows suggests that swallowing is 1067 sensitive at least to words; and also to higher-level syntactic constituents than words. It is 1068 also clear that syntax and prosody work in parallel, since matters of unit construction and 1069 unit completion are, for participants, complex emergent. Further work and more data are 1070 needed to explain how exactly this syntactic phrasing maps to intonation phrases and 1071 boundaries and how together they serve to project more talk to come. 1072 In some cases, swallowing is a practice that physically displays not just unavailability 1073 to speak but perhaps an inability to speak. Some of the examples of swallowing in this 1074 paper are in the context of displays of sobbing or crying. Because of its association with 1075 crying, swallowing can be recruited as part of a display of a heightened affective stance, 1076 and sometimes the inability of a speaker to find the right words — swallowing can be one 1077 way to display 'lost for words'. In other cases, swallows are in or associated to turns 1078 accompanied by strong lexical formulations. There remains much to do to understand how

and on what occasions swallowing works in such displays, and more ecologically valid datais needed.

1081 In their distribution, swallows bear some resemblance to other sounds and actions like 1082 sniffs, sighs and clicks, which use some or all of the vocal tract. This paper shows that 1083 swallows are similarly liminal events, and that language and speech are intertwined with 1084 such events in orderly ways in everyday interaction, providing participants with non-verbal 1085 semiotic resources.

1086 Acknowledgements

I would like to thank the reviewers and the editors for their constructive feedback on
the paper. I am grateful to colleagues in the Centre for Advanced Studies in Language and
Communication and especially to Marina Cantarutti for their support with this paper.

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