

Conversation Analysis in epileptology: Listening to patients with non-epileptic seizures

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Listening to patients with non-epileptic seizures

Overview

Interactional characteristics

- Conversation Analysis: Communication behaviour, NES versus epilepsy
- Psychological insights

Seizure metaphors

- Cognitive Linguistic Analysis: Metaphors for NES and epileptic seizures
- Psychological insights

Diagnostic labels

- Applied linguistics: Patients' use of labels for NES or epileptic seizures
- Psychological insights

Listening to patients with non-epileptic seizures

Background

Non-epileptic seizures: a serious diagnostic challenge

- NES are common (approx. 20% of patients in epilepsy clinics)
- Misdiagnosis rates of epilepsy range from 5-50%
- Mean delay of the diagnosis of NES is over 7 years
- Failure to recognise NES can cause injuries and death
- Interictal tests are usually unhelpful
- Video-EEG is expensive and only captures attacks in 2/3 patients
- “History taking” is the diagnostic gold standard

Listening to patients with non-epileptic seizures

Background

Limitations of factual features in the history of seizure patients

Limitation	Feature in the history
No differentiating value	Ictal injury, seizures from (apparent) sleep, incontinence, tongue biting, pelvic thrusting
Differentiate but not noticed / described reliably	Duration, closed eyes during tonic-clonic movements, closed mouth during tonic phase, cyanosis
Differentiate but not commonly reported	Pre-ictal anxiety symptoms, ictal crying, ictal weeping, vocalisation during tonic-clonic phase
Differentiate but require expert observation	Unusually rapid or slow recovery, variation in amplitude but not frequency of motor activity, ictal reactivity



Depend on observations of a seizure witness

Listening to patients with non-epileptic seizures

Background: Bielefeld project

Conversation Analysis: Most important interactional features

	Epilepsy	NES
Seizures as a topic	Self-initiated, main focus	Focus on situations in which seizures occur, consequences of seizures
Subjective seizure symptoms	Volunteered	Rarely mentioned

Schwabe M, Reuber M, Schöndienst M, Gülich E. Listening to people with seizures: How can linguistic analysis help in the differential diagnosis of seizure disorders? *Communication and Medicine*, in press.

Listening to patients with non-epileptic seizures

Background: Bielefeld project

Conversation Analysis: Most important topical features

	Epilepsy	NES
Subjective seizure symptoms	Discussed in detail	Little detail
Phase of reduced control / consciousness ("gap")	Exactly characterised	"Holistic" depiction

Schwabe M, Reuber M, Schöndienst M, Gülich E. Listening to people with seizures: How can linguistic analysis help in the differential diagnosis of seizure disorders? *Communication and Medicine*, in press.

Listening to patients with non-epileptic seizures

Background: Bielefeld project

Conversation Analysis: Most important linguistic features

	Epilepsy	NES
Subjective seizure symptoms	Trigger formulation work	Little formulation effort, negations
Metaphoric conceptualisation	Consistent. Seizures act independently, are external & threatening	Inconsistent

Schwabe M, Reuber M, Schöndienst M, Gülich E. Listening to people with seizures: How can linguistic analysis help in the differential diagnosis of seizure disorders? *Communication and Medicine*, in press.

Listening to patients with non-epileptic seizures

Sheffield project: CA in epileptology

Methodology

Question:

- Can we prove that CA can help in the differential diagnosis of seizure disorders?

Method:

- Prospective study, consecutive patients
- Only patients referred for video-EEG by consultant neurologists because of diagnostic uncertainty
- Only patients with video-EEG “proven” diagnosis
- Linguist blinded to video-EEG and other clinical information
- Interview schedule based on German guidelines

Listening to patients with non-epileptic seizures

Sheffield project: CA in epileptology

Methodology: 30min Interview schedule

Structure:

- 1. Open phase: What were your expectations?
- 2. Elicited accounts: First / last / worst seizure
- 3. Challenge

Rules:

- Listen, do not interrupt, let the patient talk.
- When the patient stops talking, tolerate silence, use reception indicators, repeat last thing patient said.
- Avoid additional questions other than for clarification.
- Do not introduce new topics into the conversation.

Listening to patients with non-epileptic seizures

Sheffield project: CA in epileptology

Comparison: "Carl" and "Tallulah", open phase

"Carl"

I: thank you very much for (-)
 C: <<f>(ya: ites a:) p[leasur
 I: for helping us with this
 sister SURNAME-1:
 (0.4) em+how: (-) <<p>er er what?
 (0.4) perhaps you could tell us what your
 expectations are ah
 <<p> (so er from) (1.4) for COMING here,
 what er were you hoping ha-
 ving to (0.3) get OUT of this STAY,
 (0.4)
 C: I wasn't really HOPEING
 to see anything GUP of it;
 (0.4) in the sense that I didn't THINK
 (=) necessarily that you would pick
 anything UP.
 (0.4)
 I: <<h>
 C: (-)
 I: cause you didn't pick anything up (-)
 <<h>: (clicking sound)
 so (-) I wasn't very optimistic,
 voices from the corridor
 (interruption by nurse)
 ites [right] (0.4) so THIS was there: an
 (=) thought that I HAD (-)
 that (=) (it) (1.3) ah (-)
 MY that it was a sense of HORROR,
 (or) that (0.6) (perhaps) because I KNEW
 (-) what the (1.0) NCESSITY of it was
 from the point of view of a (-) medical
 PROFESSION;
 C: <<h>
 I: (well) I I JUST (-) RECALLY didn't think
 (that=youd) pick anything UP
 (0.4) because I've Always considered that
 the absence were TAKING place,
 in certain situations of EVERYDAY (-) life,

p1

(=) which I had thought (-) erm were (removed),
 I: <<h>
 C: (-) by the nature of being in a (-)
 artificial situation;
 <<p> <<h>
 C: which (-) this room really IS;
 <<p> <<h>
 I: and SO for THAT reason (0.3) I (=) I sort of
 <<F> (veared) on to the (0.6) (passimatic)
 (0.8) view (-) [of
 (right), (-) ya
 I: of of the MEDICAL accessories;
 a well; I MUST insist is
 to make any criticisms of (-) medical profession;
 I: <<h>
 C: (0.4) erm (0.8) and of COURSE (0.4) I DID think
 that MAYbe with taking LESS of the tablets,
 that night (1.8) produce <<p> something;
 (0.6)
 I: <<h>
 C: erm (1.5) I DID have
 a couple of attacks this week,
 (that) I've remembered, (0.9)
 but (-) as you KNOW (-) they are (-)
 they're very ab- (-) QUICK;
 (-) <<h>
 I: and-er: (1.0) (de- de=) no WARNING of them
 they just occur.
 I: <<h>
 C: (-) and I've Always listened then to: erm (0.8)
 you know somebody having the finger on an
 electric socket,
 turning it OFF and on;
 I: <<h>
 C: so you've got the power on the RADIO and then
 it (cha- aud.) idemly just keeps going off,
 (then) ah cause somebody's doing it (here)
 you CAN't see (that,them);
 I: <<h>
 C: I've always envisioned that THAT=,
 what= (-) happening inside me head;
 I: <<h>
 I: (2.7)

p2

but-erm (1.6) you know apart from the fact
 that er (1.1) [it] (-) I F F F
 (it's kind when) you <<F> sat-
 here is (what er ee) (you know)
 <<p> you get all (of it done); (sometimes);
 I: <<h>
 C: (-) (yet) cause BEFORE you see,
 when I was in (0.6) I was full of toxins
 with these (1.8)
 I= had (-) waited for the (urothotomy)
 I: <<h>
 C: and I WAIN't really very well (apart) from the
 epilepsy,
 (-)
 I: <<h>
 C: and I= had (=) I was in in november o three
 and I had HAD (-) (er/?) (-)
 seventy five percent of me BODY
 (0.4) was covered in (a urticaria);
 I: <<h>
 C: (-) from (BATER)
 I: <<h>
 C: (-) which (0.9) I think (-) I was (=)
 the view taken of it (-) NOW probably was I=
 was related to: (-) the fact that I wasn't
 Urinating;
 I: <<h>
 C: (0.8) so was <<F> BATHER (1.2) I was wearing
 a (lot of) (shorts); (-) and (-) it was coming OUT
 in me sleep; (Urine was coming out in me SLEEP;
 I: <<h>
 C: (1.0) and so REALLY it was in a/the
 worse STATE of health,
 (-)
 I: <<h>
 C: when I am NOW;
 (-)
 I: <<p> <<h>
 (-)
 C: but erm (0.4) having SAID that (=)
 there MUST be a difference (-)
 IN the seizures;
 I: <<h>

p3

Doctor



Patient



Pause



(>1sec)

"Tallulah"

I: okay; thank you very much for (-)
 for helping with this. ah
 can you tell me what-er (-)
 you were expecting, when you came here
 on Monday,
 what were your expectations?
 (2.2)
 I: I DIDN'T think that I [=] av=em;
 (=) cause you can't (-) say when you gonna
 have-em (or not); (3.3) but I were SCARED;
 (8.6)
 I: you were scared?
 (-)
 I: <<p> yeah;
 (1.7)
 I: <<h> (about) HURT?
 (=)
 I: being; (here) (-) on me own;
 (1.3)
 I: <<p> and what (-) what was (-) what=,
 (=) what= SCARY about being on your own?
 (2.3)
 I: because (-) I DON'T know (1.0) er:
 (-) (how me fits) (1.9) ah, on (-)
 me (-) BEING on me own;
 (-) (a lot/ [me not] (=) when I were (under)
 a SPECIALIST (at HOME-) (-) says I (=) can't
 allowed to be on me own;
 (-)
 I: right;
 I: I HAD (to have some)one=with=me;
 I: <<h>
 I: (=)
 and (0.9) FIRST night I stayed on me own
 I were SCARED (so I not) (-) (go to sleep);
 (1.5)
 I: first night you were on your own HURT?
 I: <<h>
 I: <<h>
 I: <<h>
 I: I DIDN'T SLEEP, (cause) I were scared;
 (1.6)

p1

so SINCE this (1.0) this doctor in
 TOWN-1 (-) when did he TELL you that you should
 not be on your own?
 (1.5)
 I: two (months) after I got diagnosed with-it;
 (1.3)
 I: so that= a long Time ago; is it?
 I: <<h>
 I: and since THEN have you never
 BEEN on your own?
 I: no.
 I: (4.5)
 I: so what IS it that you're worried about;
 BEING on your own, (1.7) what worries you about
 (-)
 I: (just not waking up)?
 I: (2.3)
 I: what waking up?
 be- because (-) WHY would you not WAKE up?
 I: <<h>
 I: <<annoyed> I DON'T know, it= just
 came on my [eyes];
 (-)
 I: one of your fears?
 I: yeah;
 (-)
 I: (clears throat) (clicks tongue)
 as this related to (-) to the seizures,
 er er not waking up from a SEIZURE,
 or just not (-) waking up?
 I: <<h>
 I: not waking up from (=) a sei-
 er BAIN a fit;
 I: (5.9)
 I: so does THIS link to (-) it is linked to
 just that I = understand, (=)
 worries INHOD to SEIZURES;
 (-) not to) you're not worried that you
 might go to SLEEP in the evening and
 not wake up in the MORNING; you (=)
 it= because you might have a seizure
 and then not (-) wake up from THAT;
 I: <<p> yeah;

p2

is that, THAT= what you worry (about)?
 I: [yeah]
 I: (16.9)
 I: is this something that is (=)
 did you think has (nearly) happened? or,
 (=) (you know) on a fit,
 (1.8) cause you HAVE had LOTS of seizures,
 haven't you?
 I: (-)
 I: yeah; (-) I had (-) LOADS of-em;
 (11.2)
 I: was there anything ELSE that you were worried
 about,
 when you came here?
 I: (2.0)
 I: no;
 I: (2.6)
 I: so it was JUST that you would be on your own?
 (-)
 I: yeah;
 (2.7)
 I: you said that you didn't THINK
 we would SEE a seizure, (=) at first;
 (4.1)
 I: yeah, (I think) (1.6) I (1.6) it= (-)
 like all; (-) everyone says to me can you
 (for) having em, (-) you CAN'T;
 I: sorry what do you say? (-) can you,
 (-)
 I: can you (throw yourself) into a fit?
 (-)
 I: can you [throw yourself into
 I: [()]
 I: yeah, (1.7) but I= tell=em you can't;
 (-)
 I: <<h>
 I: the only way you're go into a fit is if you
 stressed or upset OR;
 in front of a flashing LIGHT;
 (-)
 I: right;
 I: cause that= what I've been TOLD;
 (1.1)
 I: have YOU noticed that that you (-)

p3

Listening to patients with non-epileptic seizures

Sheffield project: CA in epileptology

“Carl”, lines 58-85 (initial open phase)

C: er:m (1.5) i DID have a
couple of attacks this
week,(that) i=ve
remembered,(0.9) but (-) as
you KNOW (-)they are (-)
they=re very mb(--)QUICK;

I: (-)mhmh\

C: and=er: (1.0) (de- de=s) no
WARning of them they just
oCCUR:

I: mhmh\

C: (-) and i=ve ALways likened
them to: erm (0.8) you know
somebody having the finger on
an electric socket, turning it
OFF and on;

I: mhmh\

C: so you=ve got the POver on the
RAdio and then it it (cha-
sud(.)denly) just keeps going
off,(then) .hh cause
somebodies doing it (h)ere you
CAN=t see (that/them);

I: mh,

C: i=ve always envisaged that
THAT=swhat=s (-) happening
inside me head

Listening to patients with non-epileptic seizures

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“Carl”, lines 58-85 (initial open phase)

C: er:m (1.5) i DID have a couple of attacks this week,(that) i=ve remembered,(0.9) but (-) as you KNOW (-)they are (-) they=re very mb(--)QUICK;

I: (-)mhmh\

C: and=er: (1.0) (de- de=s) no WARNING of them they just OCCUR:

I: mhmh\



C: (-) and i=ve ALways likened them to: erm (0.8) you know somebody having the finger on an electric socket, turning it OFF and on;

I: mhmh\

C: so you=ve got the POver on the RAdio and then it it (cha-sud(.)denly) just keeps going off,(then) .hh cause somebodies doing it (h)ere you CAN=t see (that/them);

I: mh,

C: i=ve always envisaged that THAT=swhat=s (-) happening inside me head

Listening to patients with non-epileptic seizures

Sheffield project: CA in epileptology

“Carl”, lines 58-85 (initial open phase)

C: er:m (1.5) i DID have
a couple of attacks this week,
self initiates discussion of seizures
(that) i=ve remembered, (0.9)
but (-) as you KNOW (-) they are
(-)they=re very mb- (--)QUICK;

volunteers description of subjective seizure experience

I: (-) mhmh/\

C: and=er: (1.0) (de- de=s) no
WARning of them they just oCCUR:

reformulates their suddenness

I: mhmh\ /

Listening to patients with non-epileptic seizures

Sheffield project: CA in epileptology

“Carl”, lines 58-85 (initial open phase)

C: (-) and i=ve ALways likened them to: erm (0.8)
you know somebody having the finger on an
electric socket, turning it OFF and on;

develops a system of consistent metaphors

I: mhmh\ /

C: so you=ve got the POver on the RAdio and then
it it (cha- sud(.)denly) just keeps going off,
(then) .hh cause somebodies doing it (h)ere
you CAN=t see (that/ them);

metaphorical externalisation of seizure cause

I: mh,

C: i=ve always envisaged that THAT=s
what=s (-) happening inside me head

Listening to patients with non-epileptic seizures

Sheffield project: CA in epileptology

“Tallulah”, lines 362-374 (worst seizure prompt)

I: what about you WORST seizure ever?

T: (3.0) tha:t=s when (--) i were sat on a FENCE,
(--) and (1.0) i were TALKin,
An (---) next minute (.) when i came OUT o it,
i were on=d floor; (--) and (1.8) i were ()
down the floor for=bout (-) TWO hours;
(--) i tried getting up, (---) and (.)
me collarbone smacked, (--) cause i (landed on me)
collarbone;(---) and (2.0) i went home; (1.5)...

Listening to patients with non-epileptic seizures

Sheffield project: CA in epileptology

“Tallulah”, lines 362-374 (worst seizure prompt)

I: what about you WORST seizure ever?

T: (3.0) tha:t=s when (--) i were sat on a FENCE,
(--) and (1.0) i were TALKin,
An (---) next minute (.) when i came OUT o it,
i were on=d floor; (--) and (1.8) i were ()
down the floor for=bout (-) TWO hours;
(--) i tried getting up, (---) and (.)
me collarbone smacked, (--) cause i (landed on me)
collarbone;(---) and (2.0) i went home; (1.5)...



Listening to patients with non-epileptic seizures

Sheffield project: CA in epileptology

“Tallulah”, lines 362-374 (worst seizure prompt)

I: what about you WORST seizure ever?

T: (3.0) tha:t=s when (--) i were sat on a FENce,
(--) and (1.0) i were TALKin,

Sets scene but does not detail seizure onset

An (---) next minute (.) when i came OUT o it,
i were on=d floor;

**Jumps forward in time – no account of seizure itself,
experience of regaining consciousness in subordinate clause**

(--) and (1.8) i were () down the floor
for=bout (-) TWO hours;

(--) i tried getting up,

(---) and (.) me collarbone smacked,

(--) cause i (landed on me) collarbone;

(---) and (2.0) i went home; (1.5)

No closing contour, emphasises consequence of seizure

Listening to patients with non-epileptic seizures

Sheffield project: CA in epileptology

Replication of German findings in British patients

Patient number	1	2	3	4	5	6	7	8	9	10	11
Seizures interactional	Red	Green	Green	Green	Green	Green	Red	Green	Red	Green	Red
Subjective symptoms interactional	Red	Green	Green	Green	Green	Red	Green	Green	Red	Green	Red
Subjective symptoms topical	Red	Green	Green	Green	Green	Red	Green	Green	Green	Green	Red
“Gaps“ topical	Green	Green	Green	Red	Green	Red	Red	Green	Black	Red	Red
Subjective symptoms linguistic	Red	Green	Green	Green	Green	Red	Red	Green	Green	Green	Red
Metaphoric conceptualisation	Black	Green	Black	Black	Green	Green	Black	Green	Green	Red	Black
Linguistic hypothesis	N	E	E	E	E	N	N	E	E	N	N

Feature typical of:



NES



Epilepsy



Inconclusive

Listening to patients with non-epileptic seizures

Sheffield project: CA in epileptology

Replication of German findings in British patients

Patient number	1	6	7	10	11	2	3	4	5	8	9
Seizures interactional	Red	Green	Red	Green	Red	Green	Green	Green	Green	Green	Red
Subjective symptoms interactional	Red	Red	Green	Green	Red	Green	Green	Green	Green	Green	Red
Subjective symptoms topical	Red	Red	Green	Green	Red	Green	Green	Green	Green	Green	Green
“Gaps“ topical	Green	Red	Red	Red	Red	Green	Green	Red	Green	Green	Black
Subjective symptoms linguistic	Red	Red	Red	Green	Red	Green	Green	Green	Green	Green	Green
Metaphoric conceptualisation	Black	Green	Black	Red	Black	Green	Black	Black	Green	Green	Green
Medical diagnosis	NES					Epilepsy					

Feature typical of: NES Epilepsy Inconclusive

Listening to patients with non-epileptic seizures

Sheffield project: CA in epileptology

Replication of German findings in British patients



Schwabe M, Howell SJ, Reuber M. Differential diagnosis of seizure disorders: a conversation analytic approach. Soc Sci Med 2007;65:712-724.

Listening to patients with non-epileptic seizures

What I have tried to say so far

Less can be more



Seizure metaphors

Listening to patients with non-epileptic seizures

Patients' use of seizure metaphors

Methodology

- Interviews with 21 patients
- Analysis: Listing and categorisation of metaphorical expressions
- Definition of metaphor taken from Lakoff and Johnson (1980)
- Figures (per patient, per category):
 - Token count:
impression of frequency of metaphorical expressions
 - Type count:
impression of richness of metaphoric conceptualisation

Listening to patients with non-epileptic seizures

Patients' use of seizure metaphors

Results

- Major metaphoric categories (>75% of metaphor types / tokens):
 - The seizure is an **agent / force**
 - The seizure is an **event / situation**
 - The seizure is a **space / place**

Listening to patients with non-epileptic seizures

Patients' use of seizure metaphors

Results

- **The seizure is an agent/force**

seizures come, go

seizures come in, come on, come up

seizures creep up on you, get you

seizures (try to) do things

seizures set off, are sent in

seizures are straight there

seizures are fought, counteracted, contained

seizures are let pass, wear off

Listening to patients with non-epileptic seizures

Patients' use of seizure metaphors

Results

- **The seizure is an event / situation**

seizures happen, occur, take place

seizures are due, start, finish

seizures go on, develop

seizures are experienced, witnessed

seizures are handled, controlled, stopped

seizures are avoided, put off

seizures are brought on

seizures run their course

Listening to patients with non-epileptic seizures

Patients' use of seizure metaphors

Results

- **The seizure is a space/place**

drifting off, being off somewhere else

going, going off, being gone, coming back

coming round, coming to

going down, being down

not being there, being out

into seizures, in seizures, out of seizures

within seizures, through seizures

Listening to patients with non-epileptic seizures

Patients' use of seizure metaphors

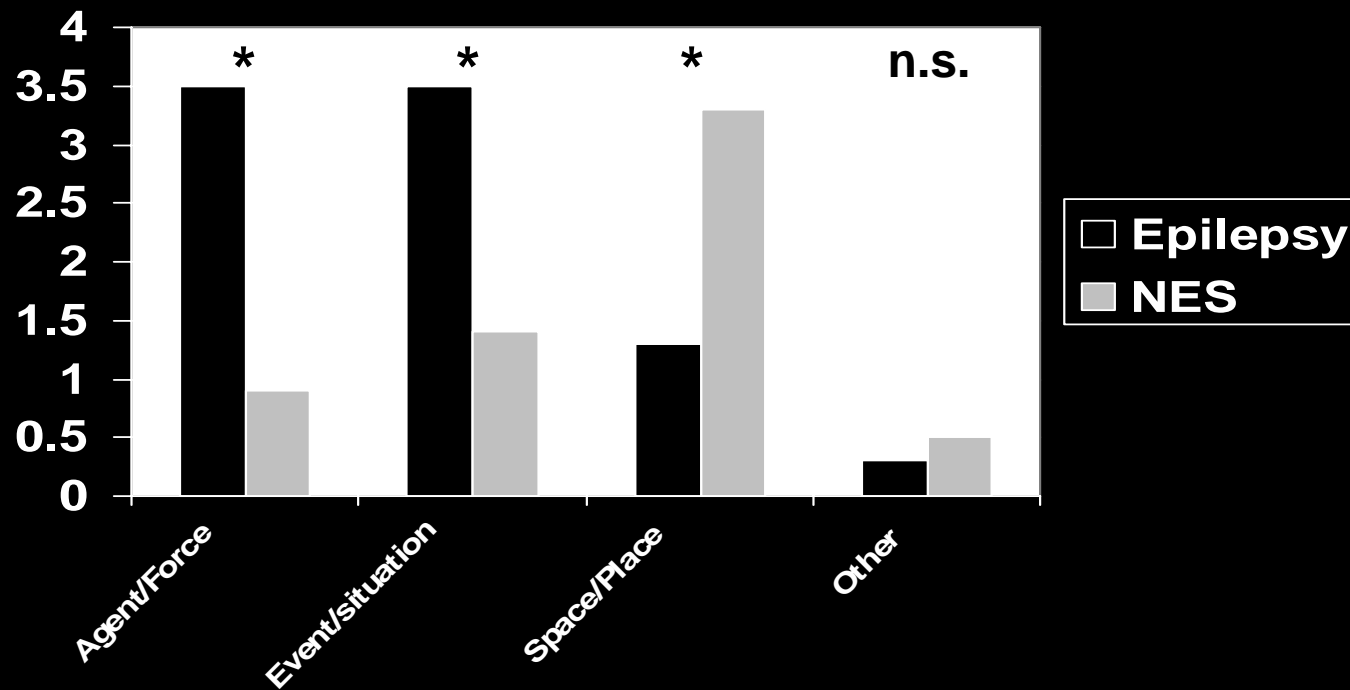
Results

- Main observation: similarities across patient groups
- No difference of total number of metaphor types / tokens used by patients with epilepsy or NES
- Most patients used metaphors from all categories
 - The seizure is an **event / situation**: used by 16 patients
 - The seizure is an **agent / force**: used by 15 patients
 - The seizure is a **space / place**: used by 18 patients

Listening to patients with non-epileptic seizures

Patients' use of seizure metaphors

Mean metaphor type counts



* : $p < 0.05$
significant

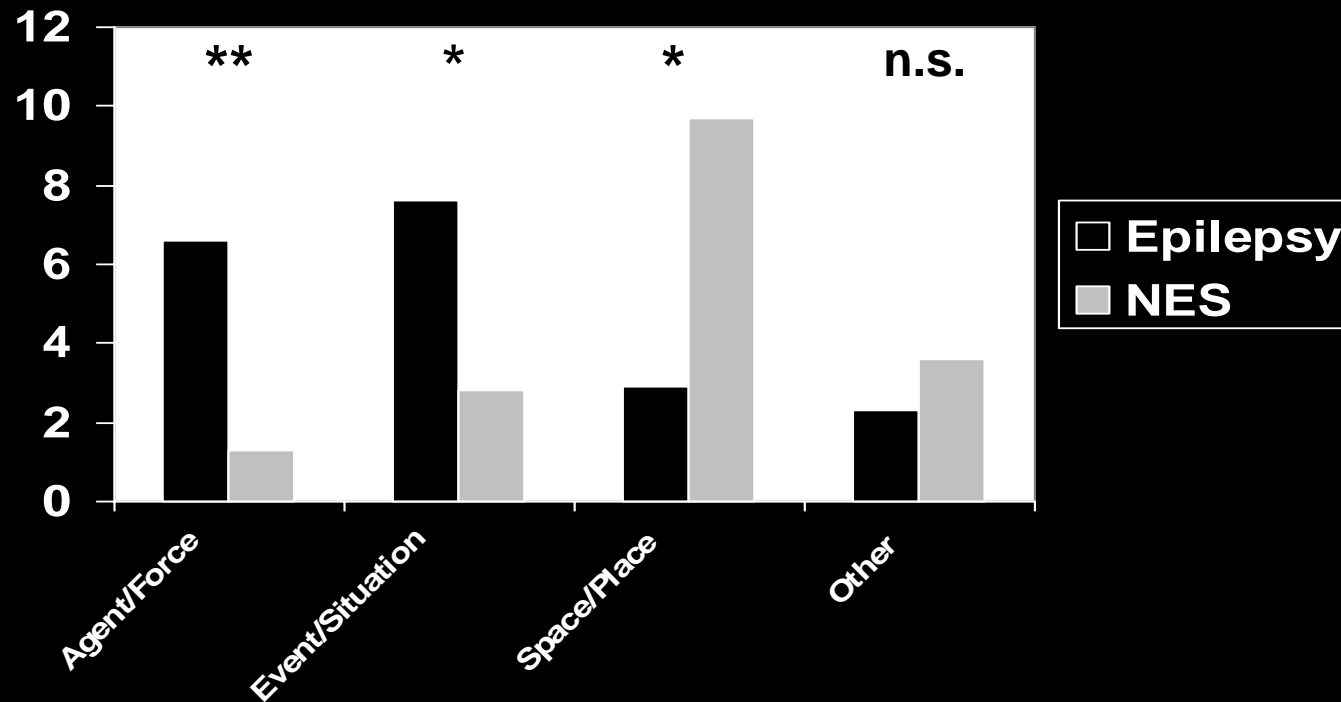
** : $p < 0.01$

n.s.: not

Listening to patients with non-epileptic seizures

Patients' use of seizure metaphors

Mean metaphor token counts



* : $p < 0.05$
significant

** : $p < 0.01$

n.s.: not

Listening to patients with non-epileptic seizures

Patients' use of seizure metaphors

Logistic regression analysis

- Variables: Event, agent/force, place/space type & token counts
- Model: $\text{Chi}^2=20.35$, $p=0.0024$

Overall correct categorisation: 90.5%		Predicted		
		Epilepsy	NES	
Observed	Epilepsy	7	1	87.5%
	NES	1	12	92.3%

Listening to patients with non-epileptic seizures

Patients' use of seizure metaphors

Psychological insights

	Agent / force	Event / situation	Space / Place	Other
Seizure	Active, independent agent	Passive, independent entity	Passive, location	variable
Patient	Victim, object	Witness, observer	Active, traveller	variable

Listening to patients with non-epileptic seizures

Patients' use of seizure metaphors

Psychological insights

	Agent / force	Event / situation	Space / Place	Other
Seizure	Active, independent agent	Passive, independent entity	Passive, location	variable
Patient	Victim, object	Witness, observer	Active, traveller	variable

Typical of:



NES



Epilepsy

Diagnostic labels

Listening to patients with non-epileptic seizures

Patients' use of diagnostic labels

Methodology

- Based on verbatim transcripts of interviews with 21 patients
- Identification of all seizure labels used by patients and doctor
- Linguistic analysis of differences in meaning and register of the labels used
- Statistical comparison of differences in label choice between patients with epilepsy and NES
- Microanalytic qualitative analysis of label usage (Discourse Analysis)

Listening to patients with non-epileptic seizures

Patients' use of diagnostic labels

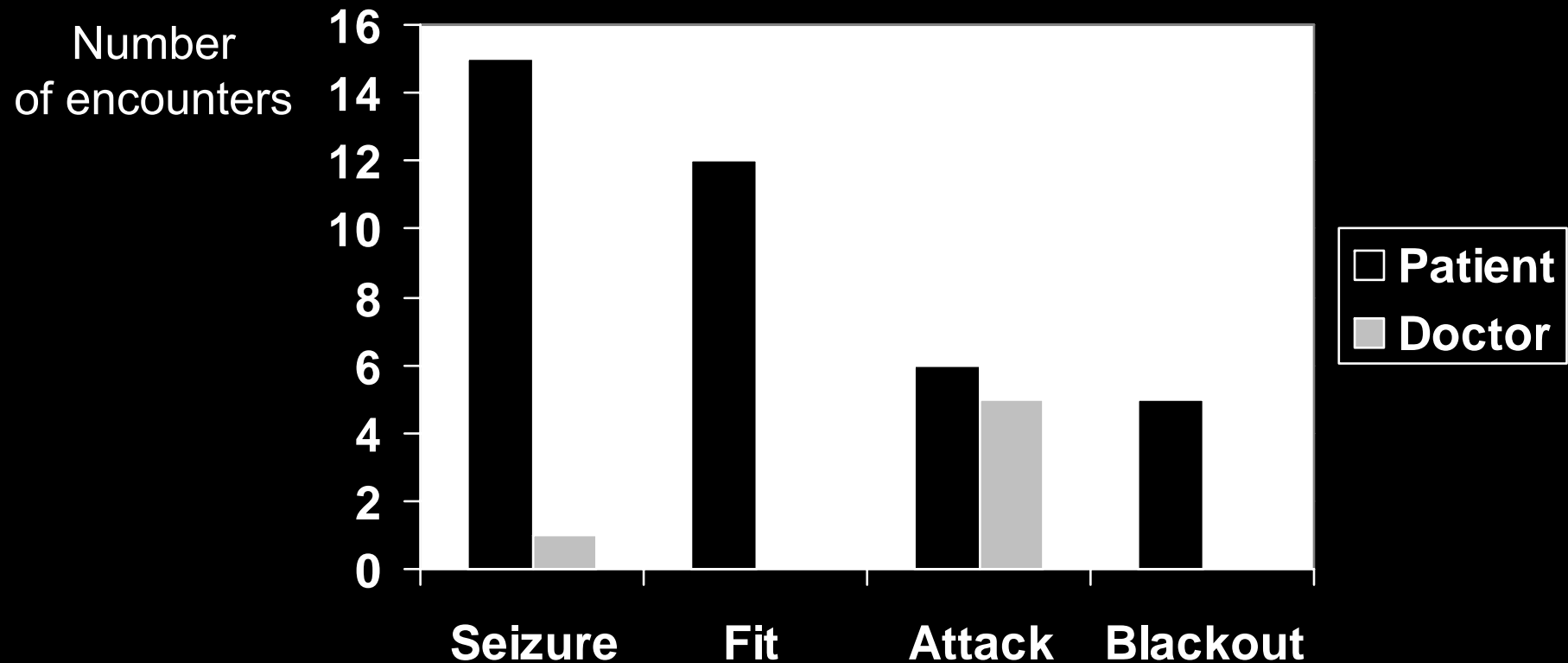
Results

Diagnostic label	Patients' usage		Doctor's usage		Difference	
	N	Encounters	N	Encounters	N	Encounters
Seizure	132	16	123	15	n.s.	n.s.
Fit	41	12	6	3	p=0.006	p=0.004
Attack	66	11	99	17	p=0.02	p=0.05
Blackout	22	4	6	5	n.s.	n.s.
Other	≤10	≤3	≤2	≤1	n.s.	n.s.

Listening to patients with non-epileptic seizures

Patients' use of diagnostic labels

Results: Initiation of label usage



Listening to patients with non-epileptic seizures

Patients' use of diagnostic labels

Results

Most frequently used labels

Denotation

Seizure / attack

General

Fit

Blackout

Specific



Listening to patients with non-epileptic seizures

Patients' use of diagnostic labels

Example: Meaning of *seizure*, *blackout* and *fit*

Doctor: well can I (.) take you back to your first
(1.0) seizure (1.6)

Chris: which one

Doctor: well you know you've come here because of these
blackouts(0.3) what about the first one you can
remember (0.3) What can you tell me about that
(1.6)

Chris: the blackout or the (.) fit cos i'm having like
(.)two different types at the moment

Listening to patients with non-epileptic seizures

Patients' use of diagnostic labels

Example: Meaning of *seizure*, *blackout* and *fit*

Doctor: well can I (.) take you back to your first
(1.0) seizure (1.6)

Chris: which one

Doctor: well you know you've come here because of these
blackouts(0.3) what about the first one you can
remember (0.3) What can you tell me about that
(1.6)

Chris: the blackout or the (.) fit cos i'm having like
(.)two different types at the moment



Listening to patients with non-epileptic seizures

Patients' use of diagnostic labels

Examples: Register of seizure, *blackout* and *fit*

- a. "as I say I thought epilepsy was someone thrashing about having a fit on the floor" (Samantha)
- b. "I kept having these like fits, just collapsing and having fits, like grand mal symptoms, jerking and losing consciousness" (Chris)
- c. "it was more like a blackout than anything else that one [...] nothing happened to me while I was gone if you like, I was just gone" (Alastair)
- d. "the blackouts started being different [...] you know, just dropping" (Chris)

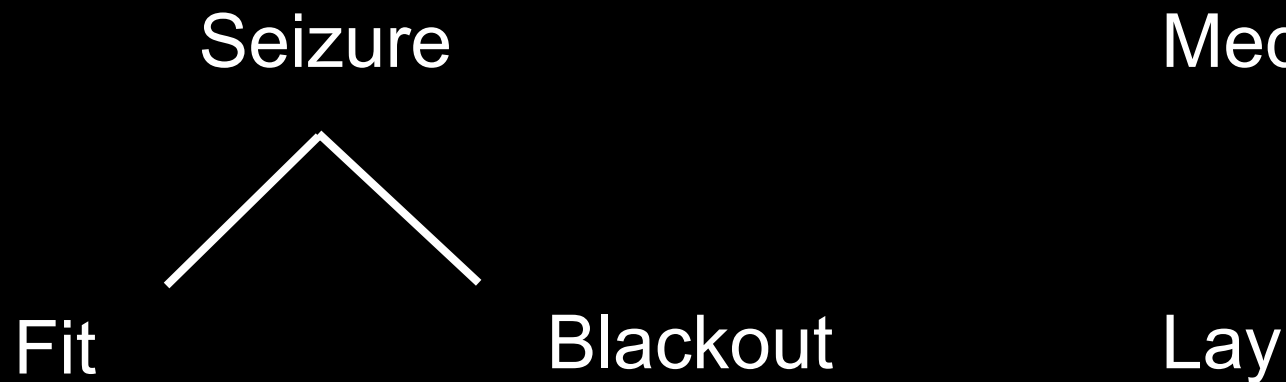
Listening to patients with non-epileptic seizures

Patients' use of diagnostic labels

Results

Most frequently used labels

Register



Listening to patients with non-epileptic seizures

Patients' use of diagnostic labels

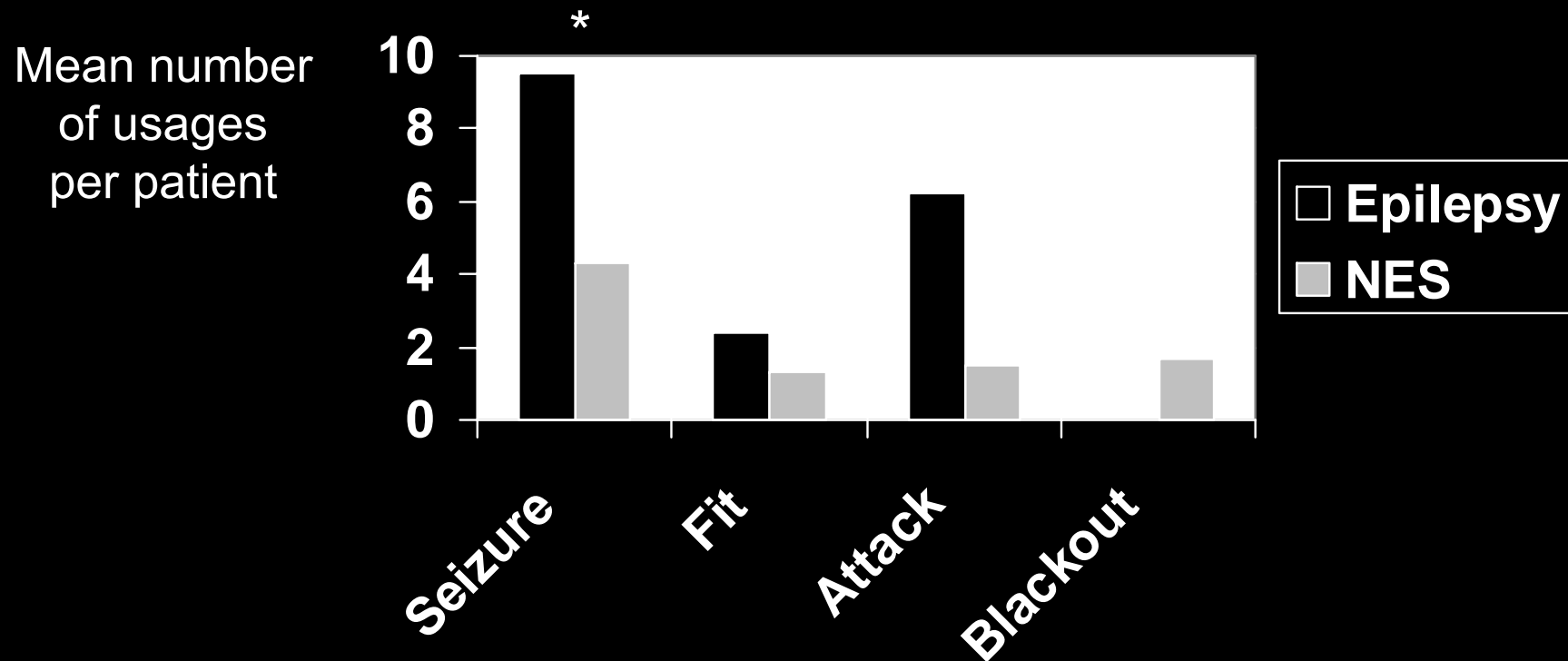
Examples: Register of seizure, *blackout* and *fit*

- a. "when I first started having fits" (Betty)
- b. "and that's when the blackouts started" (Chris)
- c. "and I'd maybe have a cluster of seizures, but I didn't know they were seizures at the time"
(Samantha)
- d. "and I went into a seizure, but I didn't know"
(Tallulah)

Listening to patients with non-epileptic seizures

Patients' use of diagnostic labels

Results: Group differences in diagnostic label preference



Differences between epilepsy and NES: *Seizure* $p=0.034$, others n.s.

Listening to patients with non-epileptic seizures

Patients' use of diagnostic labels

Examples: Resistance to use of *seizure*

a. Doctor: is this related to (.) to the seizures er er
not waking up from a seizure or just not (.)
waking up

Tallulah: not waking up from (0.3) a sei- er having a
fit

b. "I've never had any problem with er (0.8) seizures or
anything" (Trudie)

c. "because there's - I seem to have erm two different
sorts of (0.9) seizures happening" (Pat)

d. "just really to find out what the problem is or what's
causing (.) .hhh erm (0.3) the seizures" (Sandra)

Listening to patients with non-epileptic seizures

Patients' use of diagnostic labels

Results: Resistance to the medical label "seizure"

	N	No use of <i>seizure</i>	No self-initiation of <i>seizure</i>	Use of <i>seizure</i> with evidence of resistance	Any evidence of resistance to <i>seizure</i>
Epilepsy	8	0	0	1 (13%)	1 (13%)
NES	13	5 (38%)	6 (46%)	4 (31%)	10 (77%)
Significance (x ² test)		p=0.04	p=0.02	n. s.	p=0.004

Listening to patients with non-epileptic seizures

Patients' use of diagnostic labels

Psychological insights

- Patients with NES have a tendency to avoid medical labels for their seizures
- Patients' avoidance of medical labels projects responsibility for naming the disorder onto the doctor

Listening to patients with non-epileptic seizures

Patients' use of diagnostic labels

Somatisation is a collaborative process



Listening to patients with non-epileptic seizures

Summary

Interaction

- A unusually passive but receptive stance taken by the doctor enables patients to demonstrate communication behaviour of diagnostic value
- Interactive behaviour is characterised by avoidance

Metaphors

- Patients with epileptic and non-epileptic seizures use different profiles of metaphors for their seizures
- In NES the patient is the acting subject, the seizure is a passive location

Diagnostic labels

- Patients with epileptic and non-epileptic seizures differ in their use of labels
- NES patients' avoidance of `medical' labels encourages the to doctor to accept responsibility for the disorder

The End

It's tricky. We'll
Need CA, ECG, EEG,
MRI and tilt-table test.

