

## **Academic English**

Producing academic texts

Tracing and revising inexpedient language use

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## Rules & conventions matter if you want to publish!

**Step 1**Know "the rules"



- 1. Consult reporting guidelines on contents
- 2. Follow journals' instructions
- 3. Learn academic writing conventions

## 1. Reporting guidelines

A catalogue of reporting guidelines for health research. Eur J Clin Invest 2010 ; 40(1): 35-53 http://cdn.elsevier.com/promis\_misc/Reporting%20Guidelines.pdf

What?

International guidelines on contents and style

- reflect experts' consensus opinion
- endorsed by journals
- research design-specific checklists & advice

Where?



http://www.equator-network.org/



## Two steps: Effective writing for medical science

### Contents

Designspecific Strobe: Observational study

Grade: Meta-analysis

Orion: Infection control

**Prisma**: Systematic review

**Stard**: Diagnostic accuracy

**Consort**: Randomized studies

### **Consort**

Introduction Discussion



2a Background and rationale2b Specific objectives/hypotheses



20 Limitations (bias, imprecision...)

21 Generalizability (validity...)

22 Interpretation of results

# Contents Journalspecific

- 1 Nature and scope of problem
- 2 Brief review of pertinent literature
- 3 Rationale of study
- 4 Purpose of paper
- 5 Rationale for choice of method Int. J Oral Maxillofacial Surgery

Check move structure in target journal if no set move structure is prescribed!

1 Principal findings

2 Strengths/weaknesses of study

3 Str/weak of results comp to others'

5 Meaning of study; implications

5 **Unanswered** questions

6 Future research





# Contents – A functional perspective or "what are we doing with words"

## Conventions

## Moves & steps

### 1. Introduce research area

- a) Summarize previous research
- b) Claim general importance
- c) Make topic generalization

### 2. Establish research niche

- a) Indicating gap or
- b) Raise question/doubt or
- c) Make counter-claim or
- d) Claim benefit, take next step

### 3. Occupy research niche

- a) State purpose
- b) State main results (some displ)
- c) Describe structure (some displ)

- 1. Background (optional)
- 2. Present own results
- 3. Ex/unexpected outcome (option)
- 4. Compare with other research
- 5. Explain result / the unexpected
- 6. Example supporting explanation
- 7. Deduct/conclude/claim)
- 8. Hypothesis (optional)
- 9. Support for 7-8 (optional)
- 10. Recommendation (optional)
- 11. Suggest future work

Repeated for every main finding

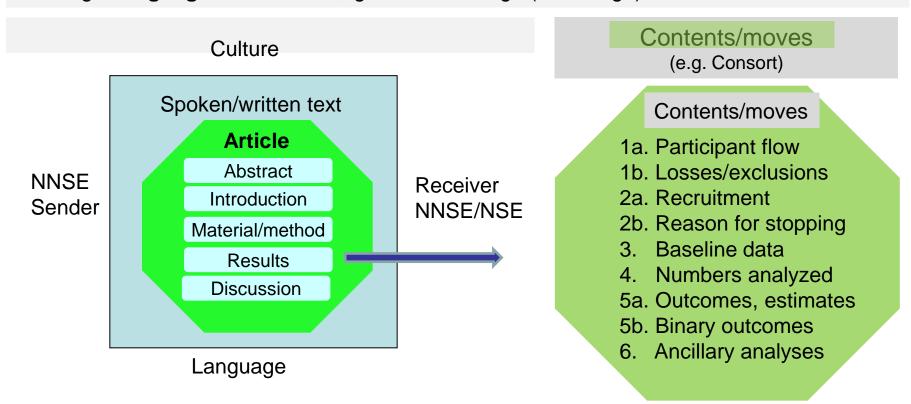




## Move structure conventions are genre/subgenre-specific

Conventions are followed at the levels of

- Culture/genre-specific schematic structures (general or design-specific moves & steps)
- Target language conventions, grammar & usage (tool usage)





1b "There was only one protocol deviation, in a woman in the study group. She had an abnormal pelvic measurement and was scheduled for elective caesarean section. However, a trial of labour was judged acceptable; caesarean section was done when there was no progress in the first stage of labour

idenskabeligKommunikation

http://www.consort-statement.org/consort-statement/13-19--results/item13b losses-exclusions/

Conventional features! Not cast in iron!

### Language

Nominal structure Dichotomies/hierarchies

Past tense No hedging Agent-less passives Main sentences

Theme/rheme structure Declarative sentences Lexical cohesion

### Contents/moves

- 1a. Participant flow
- 1b. Losses/exclusions
- 2a. Recruitment
- 2b. Reason for stopping
- Baseline data
- Numbers analyzed
- 5a. Outcomes, estimates
- 5b. Binary outcomes
- 6. Ancillary analyses



## Two steps: Effective writing for medical science

1b "There was only one protocol deviation, in a woman in the study group. She had an abnormal pelvic measurement and was scheduled for elective caesarean section. However, a trial of labour was judged acceptable; caesarean section was done when there was no progress in the first stage of labour

http://www.consort-statement.org/consort-statement/13-19---results/item13b losses-exclusions/

### Language

Nominal structure
Dichotomies/hierarchies

Past tense
No hedging
Agent-less passives
Main sentences

Theme/rheme structure
Declarative sentences
Lexical cohesion

### Move/step

- 1a. Participant flow
- 1b. Losses/exclusions
- 2a. Recruitment
- 2b. Reason for stopping
- 3. Baseline data
- 4. Numbers analyzed
- 5a. Outcomes, estimates
- 5b. Binary outcomes
- 6. Ancillary analyses



## idenskabeligKommunikation oversættelse | sprogrevision | kurser

#### **Danish Ramazzini Centre**

## Two steps: Effective w

1b "There was only one protocol deviation, in a woman in the study group. She had an abnormal pelvic measurement and was scheduled for elective caesarean section. However, a trial of labour was judged acceptable; caesarean section was done when there was no progress in the first stage of labour

http://www.consort-statement.org/consort-statement/13-19---results/item13b losses-exclusions/

Theme: What we talk about. In Results section often sentence subject

Rheme: What we say about the theme. In Results section often the rest of the sentence

Dichotomies/hierarchies

Past tense
No hedging
Agent-less passives
Main sentences

Theme/rheme structure
Declarative sentences
Lexical cohesion

- 1a. Participant flow
- 1b. Losses/exclusions
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- 5a. Outcomes, estimates
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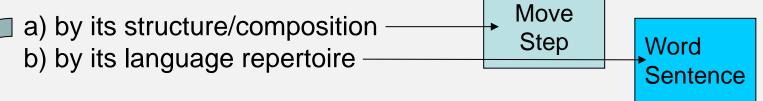


## **Two steps: Writing conventions**

## 3. Conventions in academic writing

### **Conventions** are situated and genre-specific

Every text exists in a **context**Every text serves a context-specific **purpose** in two ways



Texts form **genres** (e.g. research paper, poster)
Genres serve **contextual purposes** in genre-specific ways
Some genres may be broken down to **subgenres**Subgenres serve contextual purposes in subgenre-specific ways





## Four levels of functional text analysis

1. Genre

Whole text (meta)

Research paper (IMRaD)

Disseminate research

2. Subgenre

Text section (macro)

Introduction

Set stage for own research and outline rationale

3. Move

Sentence/clause (meso)

M1 Intro res.

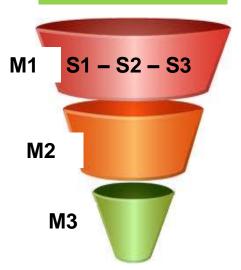
M2 Create niche M3 Occupy niche

Spur reader's interest

S1 Rev pre res

S2 Claim import S3 Generalize Update reader on relevant research on chosen topic

Introduction



4. Step

Clause/phrase (micro)



## **Subgenre - Abstract**

### **Genre features of Abstract**

- Purpose Short recap of main text; presents results
- Structure Move structure and size (word count) defined by journals
- Form Description (and some exposition)
- Language Syntax: Simple, main sentences
   Compact noun groups; short, mostly main sentences

### Move structure: (general)

- 1. Short introduction ("setting the scene"; 1-2 sentences)
- 2. Short section on materials and methods
- 3. Main results (75% of body of text)
- 4. Short discussion (2-3 sentences)



**Morten Pilegaard Danish Ramazzini Centre** 

## enskabelig Kommunikation

## Two steps: Effective writing for Always consult Instructions,

to see if structured abstract is required by the journal

### Subgenre - abstract

**Specific move structures:** BMJ (Max 250 words) http://www.mco.edu/lib/instr/libinsta.html

1. Objectives a clear statement of the main aim of the study and the major

hypothesis tested or research question posed

2. Design including factors such as prospective, randomization, blinding,

placebo control, case control, crossover, standards for tests etc.

level of care, e.g. primary, secondary; number of centers 3. **Setting or** 

who, how selected, what entry and exclusion criteria, etc. 4. Participants

5. Interventions what, how, for how long

6. Measures main outcome measures planned in protocol, those finally

measured; if different, explain why

7. Results main results with (for quantitative studies) 95% confidence intervals

and, where appropriate, the exact level of statistical significance

8. Conclusions primary conclusions and their implications, suggest areas for further

research if appropriate



**Exercise:** 1) Read the below abstract intended for the BMJ. 2) Does its move structure fit the BMJ (objective, design, setting/participants, intervention, effect measures, results, conclusion)? 3) Does the choice of words clearly signal the intended communicative purpose of each move?

1 The calcium antagonist verapamil has been shown to increase oxygen extraction 2 of ischemic tissues in coronary and peripheral disease. Since the balance between beneficial and deleterious effects of vasodilation in ischemic disease may be delicate we investigated the clinical and hemodynamic effects of verapamil in 44 patients with intermittent claudication (Fontaine's stage IIb - III) in a randomized double-blind placebo controlled crossover study (4 weeks with placebo/ verapamil) after individual optimal dose of the drug had been evaluated in a dose re-8 sponse study. Eight, 8, 14, and 14 patients revealed the longest walking distance 9 on 120, 240, 360, and 480 mg, respectively of slow-release verapamil once daily. 10 In individually optimal doses verapamil increased pain free walking distance by 11 27% from 44.9 to 57.8 m (p<0.001) and maximal walking distance by 49% from 12 100.7 to 149.8 m (p<0.001) as compared to placebo. The increase in maximal 13 walking distance after verapamil administration was positively correlated to initial 14 systolic ankle pressure (...) and to ankle/brachial index (...) and to no other 15 parameter.





BMJ abstract moves: objective, design, setting/participant, intervention, effect measures, results, conclusion

**Moves** 

Objective

Design

Participants -

Intervention

**Effect** 

Results

Conclusion

The aim of this study is to investigate the clinical and hemodynamic effects of verapard. A dose-response study was performed to determine optimal, individual verapamil dosages. On this basis a randomized double-blind placebo-controlled cross-over study was performed to assess the drug's clinical and hemodynamic effects. Forty-four patients with intermittent claudication (Fontaine's stage IIb - III) were included in the study Slow-release verapamil was admin-- istered. its effect was determined from walking ability, absence of pain on walking, and maximal walking distance. The optimal, single daily dose of slow-release verapamil in terms of walking ability was 120 mg (8 patients), 240 mg (8 patients), 360 mg (14 patients) and 480 mg (14 patients). Optimal doses increased pain-free walking distance by 27% from 44.9 to 57.8 m (p<0.001) and maximal walking distance by 49% from 100.7 to 149.8 m (p<0.001). The increase in maximal walking distance correlated positively only with initial systolic ankle pressure (...) and ankle/brachial index. In conclusion, verapamil increases a patient's ability to walk



## **Subgenre - Introduction**

### **Genre features**

Purpose Outline background - State research rationale - Set the scene

• Structure Defined by design and by convention (3 moves)

Move 1: Funnel paragraph structure

Form Mainly expository with elements of description and

argumentation in move 1

Language Syntax: Varied (main + subordinate sentences) with occasional

fronted sub-ordinate sentences and inverted word order

Lexis: "Strong" verbs; adjectives/adverbs; hedging; argumen-

tative cohesion



## Two steps: Effective writing for medical science

### Purpose:



Outline background State research rationale

Set the scene for own research

= Exposition

### Move structure

- 1. Introduce research area
  - 1a. Summary of previous research
  - 1b. Claim general importance
  - 1c. Make topic generalization
- 2. Establish research niche
  - 2a. Indicating a gap
  - 2b. Raise question or doubt about existing research
  - 2c. Make counter-claim / contrast
  - 2d. Claim benefit of or take step in planned research project
- 3. Occupy the niche
  - 3a. State purpose of research
  - 3b. Give main expected results (optional)
  - 3c. Describe structure of paper (optional)

Basic & Advanced English - Health
Morten Pilegaard

Danish Ramazzini Centre

Move 1: Outline	1 _
research field	2
1b: Claim general	3
importance	4
1a: Give summary	5
of research	6
01 1030d1011	7
1c: Make topic	8
generalization	9 /
	10
1a: Summary of	11
previous research	12
Move 2: Create your niche	13
	14
	15
2b: Describe lack	16
in existing research	17
Move 3: Occupy	18
Move 3: Occupy your niche	19
/	20
1a:State purpose	21

Urinary incontinence in women is a common distressing, and costly health problem? Studies have shown that only about a a doctor for their symptoms, quarter of affected women and the treatme ably not optimal (ref.). The c **Mention only that which** practition to diagnose is of immediate relevance "Several i ent of to your niche & purpose urinary inco eatments are suitable in ofimary care staff (ref.). In two controlled to practice most of the women had improved or were cured after management; similar results were found in a study in which treatments were administered by nurses (ref.).

Such studies, however, are often performed by one dedicated doctor or specially trained staff, so the results may not reflect what is attainable in ordinary practices.

The aim of this study is to conduct an observational study of treatment of urinary incontinence in women in general practice in a community where a group of general practitioners serves the total population.



### Language form suggests function (purpose) of move/step:

### Move 1 - Step 1a: Claiming centrality

The growing /emerging interest in systemic NSAIDs has augmented/ hightened/ increased /spurred the need for tools suitable to assess their adverse, mainly gastrointestinal side effects. Of particular interest/ urgency/ topicality is how to foretell/ foresee/ foreshadow/ predict/ is increased/augmented...

### Lexis:

Growing/ emerging interest
Augmented/ hightened need
Particular interest/ urgency

### Syntax (inversion):

Of particular interest/urgency.... is

### Other expressions: inversion

Particularly important ...

Especially interesting ....

Rather more significant ...

Especially noteworthy

Of greater concern ...





Language form suggests function (purpose) of move/step:

Transition: From move 1 to move 2: Step 2b: Indicating a gap

### **Negative subject**

**Uncountable** However, little information ...

little attention ...

little work ...

little data ...

little research ...

Countable However, few studies ...

few investigations ...

few researchers ...

few attempts



**Exercise:** 1) Read the below introduction and see if you can trace its move structure. 2) Then turn overleaf, compare the two texts and comment on the difference between them in terms of thematic structure (sentence by sentence)

- Painful diseases in the motor system constitute one of the largest groups of diseases that require medical treatment. Even though systemic treatment of such diseases with
- 3 non-steroidal anti-inflammatory drugs (NSAIDs) has proven to be efficient, dose-dependent
- 4 side effects, especially gastrointestinal, are unfortunately not uncommon. An alternative to
- 5 systemic NSAID administration would be percutaneous administration. Recently, a new NSAID
- 6 cream (DOLGITR, Dolorgiet, Germany) has been tested. The tests have shown that the active
- 7 substances in this cream is concentrated specifically in the muscle fascia, muscle tissue (1).
- 8 The purpose of many clinical studies has been to evaluate the antinociceptive effect of
- 9 systemic NSAIDs in humans, but so far only few experimental studies have been performed
- 10 (2, 3, 4).
- 11 Topical application of NSAID cream has recently shown to be efficient for e.g. treatment of
- 12 tendopathies (5, 6) and sports-related injuries (7). This indicates that topical NSAID can be an
- 13 alternative treatment to systemic NSAID.
- 14 So far no experimental studies have been performed to assess the effect of topical NSAID
- 15 application. In rheumatology there is a need for suitable experimental models. Clinical
- 16 assessment of pain with Visual Analogue Scales (VAS) is useful for many purposes, but is
- 17 difficult to use for conditions where a localised pain relief is investigated e.g. one joint or
- 18 muscle is treated whereas the surrounding joints and muscles are untreated.
- 19 In the present placebo controlled double-blind study, we have used a pressure algometer to
- 20 measure finger joint pain thresholds to assess the effect of 5% ibuprofen cream applied to a
- 21 single finger joint in patients with symmetric rheumatoid arthritis (RA).



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**Exercise:** 1) Read the below introduction and see if you can trace its move structure. 2) Then turn overleaf, compare the two texts and comment on the difference between them in terms of thematic structure (sentence by sentence)

Painful diseases in the motor system constitute one of the largest groups of diseases that require medical treatment. Even though systemic treatment of such diseases with non-steroidal anti-inflammatory drugs (NSAIDs) has preent Research niche: side effects, especially gastrointestinal, are unfortune "few experimental studies **NSAID** systemic NSAID administration would be percutage of topical NSAID use for cream (DOLGITR, Dolorgiet, Germany) has been teste active localised pain relief substances in this cream is concentrated specifically (1).The purpose of many clinical studies has been to evaluate the antinociceptive effect of

systemic NSAIDs in humans, but so far only few experimental studies have been performed (2, 3, 4).

Topical application of NSAID cream has recently shown to be efficient for e.g. treatment of tendopathies (5, 6) and sports-related injuries (7). This indicates that topical NSAID can be an alternative treatment to systemic NSAID.

So far no experimental studies have been performed to assess the effect of topical NSAID application. In rheumatology there is a need for suitable experimental models. Clinical assessment of pain with Visual Analogue Scales (VAS) is useful for many purposes, but is difficult to use for conditions where a localised pain relief is investigated e.g. one joint or muscle is treated whereas the surrounding joints and muscles are untreated.

In the present placebo controlled double-blind study, we have used a pressure algometer to measure finger joint pain thresholds to assess the effect of 5% ibuprofen cream applied to a single finger joint in patients with symmetric rheumatoid arthritis (RA).

- **1.** Painful diseases in the motor system constitute one of the largest groups of diseases that require medical treatment
- 2. Even though systemic treatment of such diseases with nonsteroidal anti-inflammatory drugs (NSAIDs) has protected to be efficient, dose-dependent side effects especially gastrointestinal are unfortunately not uncommon.
- **3.** An alternative to systemic NSAID administration vould be percutaneous administration.
- **4.** Recently, a <u>new NSAID cream</u> (DOLGITR, Ger hany) has been tested.
- **5.** The tests have shown that the active substances in this cream is concentrated specifically in the muscle ascia, muscle tissue, joint capsule, and in the synovial fluid and muscle tissue
- **6.** The <u>purpose of many clinical studies</u> has been to evaluate the <u>antinociceptive effect of systemic NSAIDs in humans</u>, but so far few experimental studies have been performed
- **7.** Topical application of NSAID cream has recen ly shown to be efficient for e.g. treatment of tendopathies and sports-related injuries.
- **8.** In <u>rheumatology</u> there is a <u>need for suitable experimental</u> models.
- 9. Clinical assessment of pain with Visual Analogue Scales is useful for many purposes, but is difficult to use full conditions where a localised pain relief is investigated and point or muscle is treated whereas the surrouncing points and muscles are untreated.
- 10.In the present placebo controlled double-blind stud, have used a pressure algometer to measure finger joint puthresholds to assess the effect of 5% ibuprofen cream applied to a single finger joint in patients with symmetric rheumatoid arthritis

### Topic sentence

- **1.** Medical treatment of painful diseases in the motor system can be performed in a number of ways.
- 2. Systemic treatment has included administration of non-steroidal, anti-inflammatory drugs (NSAIDs). Though efficient, NSAIDs have had dose-dependent, mainly gastrointestinal, side effects.
- 3. Systemic NSAID treatment has so far focused on the antinociceptive effect in humans, and experimental studies have been few.
- **4.** Percutaneous NSAIDs treatment could be an alternative to systemic NSAID treatment.
- **5.** A new NSAID cream (DOLGITR, Germany) has recently been tested.
- **6.** This antinociceptive cream has been shown to act specifically on the muscle fascia, muscle tissue, joint capsule and on the synovial fluid and muscle tissue.
- 7. The cream has also proven efficient in topical treatment of tendopathies and sports-related in Topic sentence
- 8. Pain can be assessed in many ways, eg by Visual Analogue Scales (VAS).

This method is not optimal where localized pain relief is sought, eg if a joint or muscle is being treated while adjacent joints and muscles are left untreated.

- **9.** VAS therefore cannot be applied, so new experimental models for pain assessment are needed
- **10.** A double-blind, placebo-controlled study was hence designed to measure finger joint pain thresholds by pressure algometry in patient with rheumatoid arthritis (RA) treated with 5% ibuprofen cream applied to a single finger joint.

## VidenskabeligKommunikation oversættelse | sprogrevision | kurser

- 1. Background (repeat Purpose)
- 2. Own results (main/part)
- 3. Poss. Resume of result
- 4. Compare/assess results
- 5. Conclude on study, context
- 6. Discuss/assess study
- 7. What follows from the study

## **Discussion:** Hopkins & Dudley-Evans

The single patient with biopsy-proved hepatic involvement also had a positive spleen. This is in accord with the original observation of the Stanford group, who reported no instance of hepatic involvement without concomitant splenic involvement. The liver scan was primarily responsible for 8 of 9 false-positive liver evaluations. We conclude that as with the spleen scan, the liver scan has little value in the initial staging of Hodgkin's disease. Since liver function tests are also unreliable, it is clear that open biopsy is necessary in order to evaluate the liver more definitively. Even the latter technique is subject to the limitations of sampling procedures. One patient died of an acute myocardial infarction three months after staging laparotomy with negative liver biopsy. Hepatic involvement was found at autopsy.

- **2. Result** (part result)
- **4. Compare** to other research

Own **result** supports other research

5. Conclusion 1

Result

Restatement

5 Conclusion 2

5a Reservation

Conclusion 2

**Result** supports reservation (5a)

### Widenekahelia Kommunikation

**Basic & Advanced English - Health Morten Pilegaard** 

- Background (repeat Purpose)
- **Own results (main/part)**
- Poss. Resume of result
- Compare/assess results <
- 5. Conclude on study, context
- 6. Discuss/assess study
- 7. What follows from the study

#### Academic Phrasebank

### suggests move/step function: Discussion

Click on the following:

#### **Major Sections**

Introducing work Reviewing literature Describing methods Reporting results Discussing findings Writing conclusions

#### General Functions

Being critical Classifying and listing Compare and Defining Expla Exp Des Desci Giving exa Writing about in

phrasebank.pdf Useful links Home

MANCHESTER

Preview and transition

Moves: Language form

- State results 2:
- 3: Resume of overall results
- Compare with(support) previous research (contradict) S
  - Conclude on study context 5:

## **Build your own** disciplinary-specific move and phrase bank

lial infarction three months after y with negative liver biopsy. Hepatic found at autopsy.

Verbs: Confirm Corroborate, verify, tally with, confirm, agreement with

Verbs: **Contradict** is not in keeping **inconsistent** ontrast to

roposition: suggests that... X may be evidence X led to the conclusion that ...

vw.phrasebank.manchester.ac.uk/causes.htm

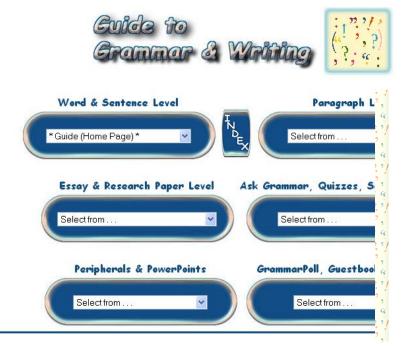


## Two steps: Effective writing for medical science

## Step 2: Language matters if you want to publish!

Webster Online http://grammar.ccc.commnet.edu/grammar/

Information from Webster on grammar; linguistic and text composition exercises.



Grammar levels: Word/sentence/paragraph Discourse levels: Research papers, essays







## Online grammars and writing tools

### Webster Online: Transition between ideas - coherence

COHERENCE: TRANSITIONS BETWEEN IDEAS

Select from the following

THE MOST CONVINCING IDEAS IN THE WORLD, expressed in the most beautiful: those ideas are properly connected. Unless readers can move easily from one thought something else to read or turn on the television.

Providing transitions between ideas is largely a matter of attitude. You must neve what you know. In fact, it's a good idea to assume not only that your readers need all need to know how you arrived at the point you're at, but also that they are not quite a able to leap from one side of the stream to the other; believe that your readers need splace them in readily accessible and visible spots.

There are four basic mechanical considerations in providing transitions between repeating key words and phrases, using pronoun reference, and using parallel form.

#### **USING TRANSITIONAL TAGS**

Transitional tags run the gamut from the most simple — the little conjunctions: an sometimes) so — to more complex signals that ideas are somehow connected — the expressions such as however, moreover, nevertheless, on the other hand.

addition	again, also, and, and then, besides, equally important, finally, first, further, furthermore, in addition, in the first place, last, moreover, next, second, still, too
comparison	also, in the same way, likewise, similarly
concession	granted, naturally, of course
contrast	although, and yet, at the same time, but at the same time, despite that, even so, even though, for all that, however, in orast, in spite of, instead, nevertheless, notwithstanding, on the community on the other hand, otherwise, regardless, still, though, yet
emphasis	certainly, indeed, in fact, of course
example or illustration	after all, as an illustration, even, for example, for instance, in conclusion, indeed, in fact, in other words, in short, it is true, of course, namely, specifically, that is, to illustrate, thus, truly
summary	all in all, altogether, as has been said, finally, in brief, in conclusion, in other words, in particular, in short, in simpler terms, in summary, on the whole, that is, therefore, to put it differently, to summarize
time sequence	after a while, afterward, again, also, and then, as long as, at last, at length, at that time, before, besides, earlier, eventually, finally, formerly, further, furthermore, in addition, in the first place, in the past, last lately meanwhile moreover next now

- Addition
- Comparison
- Concession
- •Contrast (howeveritis)
- Emphasis
- •Etc.

The pronouns *neither* and

either are singular and

require singular verbs.

*Neither of the two traffic* 

lights is working.

## Two steps: Effective writing for medical science

## Online grammars and writing tools

### Word/sentence level: Subject-verb agreement

#### SUBJECT-VERB AGREEMENT

sisters are mathematicians.



Some indefinite pronouns are particularly troublesome Everyone and everybody (listed above, more than one person and, therefore, students are sometimes tempted to use a plural verb with the singular, though. Each is often followed by a prepositional phrase ending in a plural word (Each confusing the verb choice. Each, too, is always singular and requires a singular verb.

Everyone has finished his or her homework.

You would always say, "Everybody is here." This means that the word is singular and nothing will change that

Each of the students is responsible for doing his or her work in the library.

Don't let the word "students" confuse you; the subject is each and each is always singular — Each is respons



If your c

Click HE

Everyone has done his or her hon

Basic Principle: Singular subjects need

· Somebody has left her purse.

singular verbs.

Some indefinite pronouns - such as all, some



Phrases such as together with, as well as, and along with are not the same as and. The phrase as or along with will modify the earlier word (mayor in this case), but it does not compound the subjects (as the word and would do).

- The mayor as well as his brothers is going to prison.
- The mayor and his brothers are going to jail.



The pronouns neither and either are singular and require singular verbs even though they seem to be referring, in a sens to two things.

Neither of the two traffic lights is working.

· Which shirt do you want for Christmas? Either is fine with me.





## Two steps: Effective writing for medical science

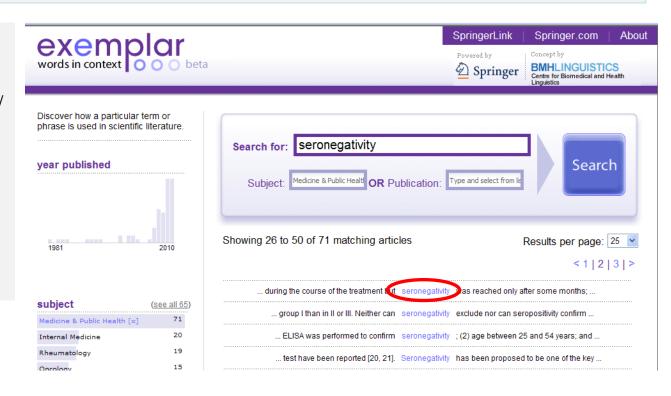
## Specialized language text banks (corpora)

### **Springer Exemplar**

http://www.springerexemplar.com/

### Why use this site?

- Quality data bank
- Real-life language
- Check usage
- Find collocations
- Link to articles



Verb + noun: to confirm / propose / reach seronegativity





## Two steps: Effective writing for medical science

## Language system differences

DK adverb → UK adjective

### **Danglish**

The patient admitted to smoking a cigarette occasionally

Agitation was interrupted *occasionally* to allow admixture of fresh medium

Twenty *more* subjects were admitted to the trial

### **English**

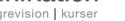
The patient admitted to smoking an occasional cigarette

Occasional interruptions of agitation allowed addition of fresh medium

Another twenty subjects were admitted to the trial

Study differences at level of word classes, syntax, grammar:

What are the differences between English and your mother tongue



idenskabeligKommunikation

Danish Ramazzini Centre

## Two steps: Effective writing for medical science

## Language system differences

DK adverb → UK verb

### **Danglish**

This hypothesis may be *unverifiable* 

The shortage of penicillin *still* gives cause for concern

The equipment has now been upgraded so as to include incinerators

Nonlinear equations are *unsolvable* 

### **English**

This hypothesis *resists* verification

The shortage of penicillin continues to cause concern

The equipment has now been upgraded to include incinerators

Nonlinear equations *defy* solution





## Language system differences

DK preposition → UK –ing (participle) form

### **Danglish**

# The rules *for* this procedure are explained in the manufacturer's instructions

The surgical principle *for* abdominorectal incision is ...

An incision was made *towards* the anterior aspect

### **English**

The rules *governing* this procedure are explained in the manufacturer's instructions

The surgical principle *underlying* abdominorectal incision is ...

The incision was made *facing* the anterior aspect





## Language system differences

Develop general rules: Reduce number of prepositions



Danglish



Prepositional postmodification

Individuals without training

Individuals on early retirement

Individuals with little education

Adjectival premodification

Unskilled individuals

Early retirees

Poorly educated individuals

### **Participial construction**

The rules for this procedure

The surgical principle for X

An incision was made towards X

The rules governing this procedure

The surgical principle underlying X

An incision was made facing X



## Two steps: Effective writing for medical science

## All the traditional problems! Dangling participles

Participle (-ing, -ed, -ent added to infinitive form of verb) relates to preceding noun Participle dangles if the implied subject is not subject of main clause of sentence

### **Caution:**

\*ing by + \*ing by + \*ed when + \*ing when + \*ed based on following considering using Paying attention to the rules of writing, most texts can be improved

After terminating drug treatment, behavioural therapy is recommended

Based on the rare occurrence of haemophilia A in women, experience regarding the use of Helixate NexGen 1000 IU during pregnancy and breast-feeding is not available

Considering that saquinavir has the weakest CYP3A4 inhibitory potency among all protease inhibitors, midazolam should be systematically reduced during prolonged infusion when administered in combination with protease inhibitors other than saquinavir





**Exercise:** Check the below sentences. Identify any dangling participles. Note that some of the sentences may be ok

Based on the results, we concluded that the drugs are equally effective

Based on the results, our conclusion is that the drugs are equally effective

After preparing the samples, our focus was on collecting the data

After preparing the samples, we focused on collecting the data

To investigate the relationship, a series of experiments were designed

We designed a series of experiments to investigate the relationship

- Advice: 1) Be on alert for dangling modifiers at beginning of sentences
  - 2) Ask who or what is doing action; make sure implied subject is doing it
  - 3) Write in active voice whenever possible





**Exercise:** Check the below sentences. Identify any dangling participles. Note that some of the sentences may be ok

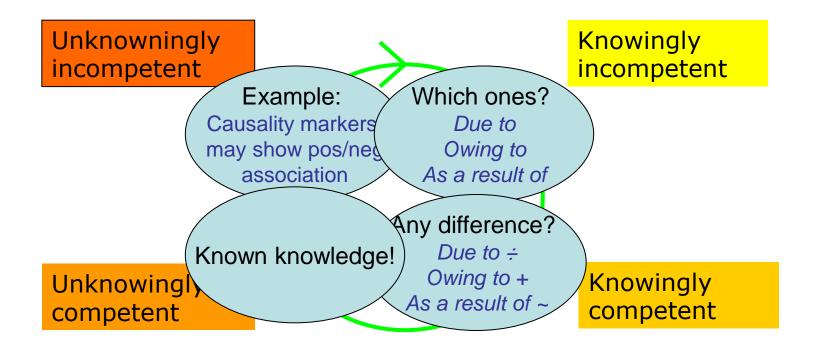
- 1) After a quick change into my hospital gown, the nurse told me to relax
- Dentists provide many useful tips for your health. For instance, flossing your teeth daily, gum disease can be prevented
- 3) Before engaging in aerobic exercises, warm-up activities are necessary
- 4) Stung by wasps, bees or other insects, toxins can bring on allergic reactions
- 5) When following a strict diet one high in protein and low in carbohydrates weight loss programs can make a difference in the quality of life.
- 6) Inhaling the fumes from paint thinner, statistics show that significant brain damage can occur
- 7) Having applied a tourniquet, the bleeding finally stopped
- 8) Medical research offers the modern world many miracles. Using a small amount of infected nutrient, serums can be prepared to inoculate people against polio.
- 9) While making experiments, the problem of bacteriology of drain puzzled us
- 10) Disgusted with his own dangling modifiers, the teacher reviewed his handouts and felt ill





## Know what you don't know!

## **Causality**







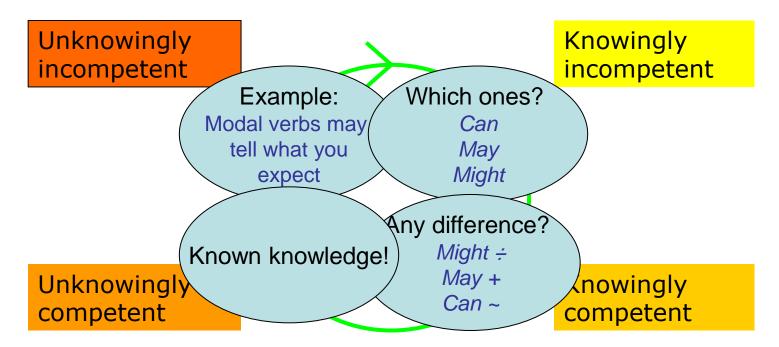
## Know what you don't know!

### Likelihood – modal verbs



### Free advice:

Know your tool box!
Spend 30 min every day



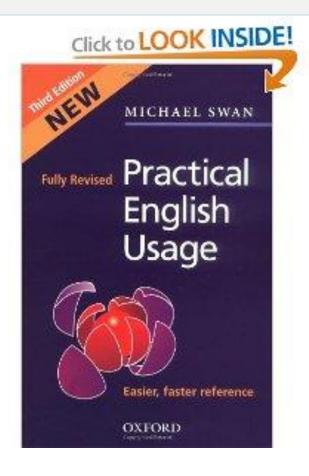


## Two steps: Effective writing for medical science

## Buy – and use this book!

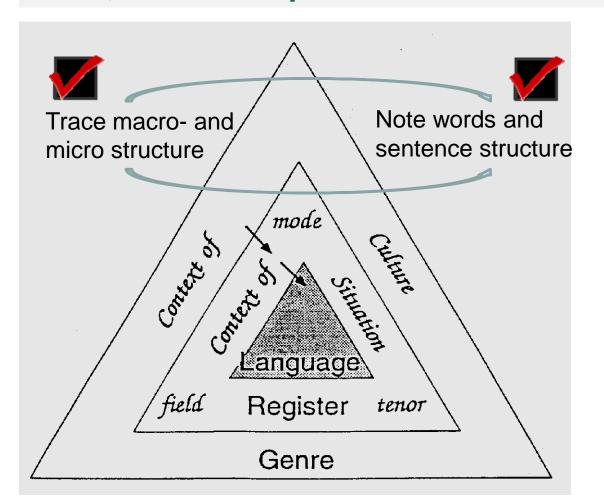
331 may and might: possibility

Might is not used as a past form of may: both may and might are used to talk about the present or future. Might is mostly used as a less definite or more hesitant form of may, suggesting a smaller chance – it is used when people think something is possible, but not very likely





## Read, observe & practice







Abstract:

Abstract mangler klar trækstruktur (fx

Baggrundstræk er for "lærebogsagtigt".

lealth gaa

## ... or CALL for help!

Der sættes komma mellem helsætninger,

Formålet bør signaleres eksplicit vha. formuleringen *The aim ..is..* Jeg synes, du bør have en sætning om, hvor meget svin

og menneske ligner hinanden måske med

tilføjelsen til sætningen: We used porcine Hemoglobin (Hb) is a fu HpHb because it exhibits a 82% sequence

other vertebrates. In the identity with its human counterpart

### Focus:

- Structure
- Clarity & correctness
- Source language interference

### Form:

- Track changes
- Notes
  - explaining errors
  - suggesting change

Denne sætning rummer, som jeg ser det,

I enaelsk bør man i videst muliat omfana

I "-ing"-/"-ed"-former i bisætninger eller biled
skal kunne finde sit subjektet (grundleddet)
eller objekt (genstandsled) i
hovedsætningen - indsæt "which" som
erstatning for manglende henførende led

I enaelsk bør man i videst muliat omfana

I release Hb into

-phase protein

(HpHb) is

or CD163. The aim
e porcine HpHb

molecules dimerize through an  $\beta$ -strand swap between-complement control protein (CCP) (for Complement Control Protein) domains, and thereby forming a very tight interaction. The SP (for serine protease(SP) domain of Hp is responsible for Hb binding and interacts with both the  $\alpha$ - and  $\beta$ - subunits which resultsing in one of the strongest non-covalent interactions observed in plasma.

complex determined at 2.9 A resolution. The structure reveals how two Hp



Design-specific guidelines Journal-specific instructions Disciplinary move conventions

Appropriate text structure Purposeful language usage Proper English language

Publication success ©



Comments/questions?