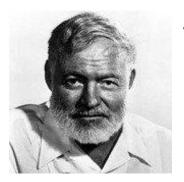
Writing English Medical Papers:
Errors and Suggested
Expressions
v2.1 (since 2007)

Kihong Chang Ajou University School of Medicine

Experience

- BTRT consultant editor
- The Obstetrician and Gynecologist (Royal College of Obstetricians & Gynecologists)
 - International Advisory Board

Simplicity



"He has never been known to

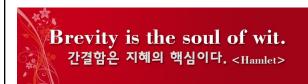
use a word that may send the

reader to the dictionary"

Ernest Hemingway (1899 - 1961)

Editors and reviewers look for

Brevity 간결 Clarity 명료 Validity









Title

No abbreviations are used in the title.

"Digoxin and Risk of Death in Adults with Atrial Fibrillation: The ATRIA-CVRN Study"

Circ Arrhythm Electrophysiol. 2014 Nov 20

"The associations between the MCP-1 -2518 A/G polymorphism and ischemic heart disease and ischemic stroke"

Mol Biol Rep 2014 Nov 21

Upper case and lower case

- Characteristics and Treatments of Large Cystic Brain Metastasis: Radiosurgery and Stereotactic Aspiration
- Characteristics and treatments of large cystic
 brain metastasis: radiosurgery and stereotactic
 aspiration
- Brain tumor Research And treatment (x)

English name spelling "홍길동"

Hong Gil Dong HongGil Dong Hong-Gil Dong Hong, Gil Dong

GilDong Hong
Gil Dong Hong
Gil-Dong Hong
Gil-dong Hong

Gildong Hong

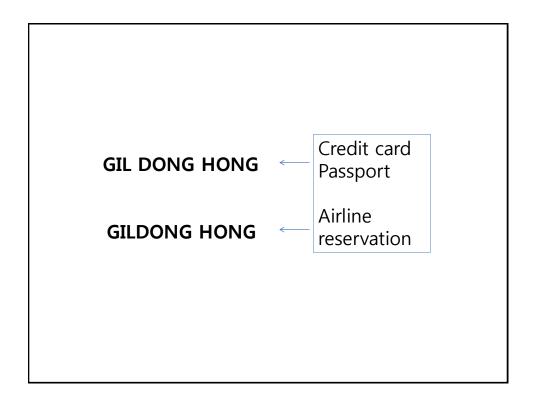
DiSaia DeHavilland Rouhette-Berton





John Rhys-Davies

Charles Philip Arthur George









Main Text

Introduction

No data or conclusions are to be reported

Results

- Do not repeat all results in the text
- Only significant key results
- The remaining in the tables and figures
- Advantages and disadvantages of results→ to discussion

잡담 1 USA and the UK

UK

- → Primary school
- → Secondary school (grammar school, public school) eg Eton College, Harrow School)
- → University (3 years, read)



Eton College

USA

- → Elementary (grammar) school
- → Middle school (junior high)
- → High school
- → College (4 years, major)

 Aluminum 	&	Aluminium
• Different than	&	to
• Gray	&	Grey
 Practice 	&	Practise
 Color 	&	Colour
 Center 	&	Centre
 Hemoglobin 	&	Haemoglobin
 Hemorrhage 	&	Haemorrhage
cf: Analyze & <u>Analyse</u>		(BJOG)

- British Journal of Dermatology "Manuscripts must be written in British English"
- British Journal of Cancer
- British Journal of <u>Pharmacology</u>
 "USA English"
- European Heart Journal
 "Oxford English spelling should be used"
- Journal of Neurosurgery "U.S. English"

- medical *license/licence*
- facial complexion/complection
- the test was canceled/cancelled
- dependent/dependant
- vertebral hard disk/compact disc
- treatment *program/programme*
- field of specialty/speciality
- morphine sulfate/sulphate

잡담 2 USA and the UK

Mr Mrs Ms Dr St Ave (US)

VS

Mr., Mrs., Ms. Dr. St. Ave. (UK)

Alternate words for... ...study...

- investigation
- research
- examination
- review
- report
- evaluation

Alternate words for... ...determine...

- clarify
- identify
- verify
- confirm
- ascertain
- delineate
- establish

Alternate words for... ...reported that...

- concluded that
- summarized that
- observed that
- stated that
- · described that
- revealed that
- · demonstrated that
- found that
- · inferred that
- opinioned that

Alternate words for... ...suggest...

- advise
- advocate
- conjecture
- exhort
- offer
- propose
- recommend
- submit

Alternate words for... ...disadvantage...

- limitation
- shortfalls
- fault
- flaw
- drawback

Webster's Dictionary

Thesaurus (유의어 사전)

...never never never...

- Can't be done
 - → cannot be ...
- Don't perform this procedure
 - \rightarrow do not ...
- We're analyzing this
 - \rightarrow we are ...

...never never never...

Sentence begins with...

- **But** we observed in our study that...x
 - → However,
- **And** the following patients...**x**
- **45** patients were enrolled in this study...x
 - → Forty five patients....

Do's & Don'ts

- could, can, might...x → maybe...√
- biggest study...x → largest study...√
- important...x
- → of significance, critical...√
- done.. x taken...x
- → performed... √



잡담 3

- Cesarean section
 - Julius Caesar was <u>NOT</u> born by Cesarean section!!!!!!!!



- Latin "caedere"; to cut



Common grammatical errors

- ...observed.So... → ...observed.So...
- ...observed,and... → ...observed, and...
- ...observed;but... → ...observed; but...
- ...observed:many → ... observed: many...
- P=0.05
- \rightarrow P = 0.05

• %, °⊂

Better expressions, better grammar

- Surgery
 - Greek: χειρουργική *cheirourgikē*, Latin: *chirurgiae*, meaning "hand work"
- Operation

1) 운영 2) 작전 3) 사업 4) 수술 5) 활동

- Surgeries → surgical procedures
- Undergo surgery
- Surgical duration → operation time
- Operation note → **surgical** note/record cf: pre - operative, post - operative



Better expressions, better grammar

- 4 times more... → 4 fold greater...
- → patients, subjects cases...
- group... → Group...
- pts classified as... → pts defined as...
- MRI imaging
 → MR imaging
 → approximately
- nearby... → adjacent to
- few, a few, several, numerous

Better expressions, better grammar

..it was seen that \rightarrow ..observed that

..try to

..amount

..finish

..like

..given

..need

..get

..died

→ ..attempt

→ ..quantity

→ ..completion of

→ ..such as

→ ..administered

→ ..require

→ ..obtain, acquire

→ ..expired, deceased

Better expressions, better grammar

..used 썼다 → ..employed 사용





Staff 스텝 (step?) & Faculty

- "Staff only"
- "Restricted area"
- "No entry"
- "Private"
- "Entry forbidden"
- "No unauthorized access or entry"
 - → "직원외 출입금지" "staff" → "faculty"







Better expressions, better grammar

....and and and and....

- subsequently...
- followed by...
- leading to...
- resulting in...
- consequently...
- finally...

Commas

- ...alpha, bravo, charlie, delta and echo
- ...alpha, bravo, charlie, delta, and echo

Commas

At the last follow-up there was clinical improvement in terms of VAS <u>and NDI</u> scores <u>and</u> the postoperative flexion-extension range of motion at the operative site <u>and</u> adjacent levels was well maintained.

Comma where?

잡담 4

- Cell phone
- Mobile phone
- Hand (held) phone
- Smart phone
- · Hand held device



1973, 2kg

Common grammatical errors

Ultrasound





Ultrasonogram vs Ultrasonography

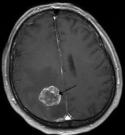
Mammo**gram** vs Mammo**graphy**



Tense 동사의 시제 (時制)

- Result: past tense
 ...our results showed that...
- Figures and Tables: present tense
 ...arrow indicates...

...arrow pointing to lesion...



A poorly written paper is not enjoyable to read

Spell check!!

¬∟⊏ √

왕 짜증!!!







When writing a paper:

"... blood, toil, tears and sweat..."

Winston Churchill, 13 May 1940

Syntax

- 통어론 (統語論), 구문론 (構文論)
- Language rules
- The grammatical arrangement of words in sentences

eg,

"...time flies like arrows..."

- syntactic ambiguity
- 의미: 시간의 흐름은 화살같이 *빨리* 간다
- time the speed of flies as quickly as you can
- Certain flies enjoy an arrow

DO NOT USE!!!

- Dash/Hyphen (-)
- ...shall be... (cf: ...will be...) used sometimes in UK English in USA legal documents

Brackets

사과(沙果)는 과일이다 사과 (apple)

• (Fig.1)

- → (Fig. 1)
- (Table 1.)
- \rightarrow (Table 1).
- Brown et al(1987) \rightarrow Brown et al (1987)
- Figure 2:(a,b,c)
 → Figure 2: (a, b, c)
 → (apple)

• EXCEPT!

...diagnosed with idiopathic hypertrophic pachymeningitis [1,4,9].

1st, 2nd, 3rd degree relative

- 아버지 어머니 아들 딸
- 형 누나
- 삼촌 사촌



대통령의 5촌 조카

Bi -, Semi -

- Biweekly every 2 weeks
- Bimonthly every 2 months
- Semimonthly every 2 weeks
- Semiannually every 6 months
- Quarterly every 3 months

잡담 5

"The pen is mightier than the sword"
"펜은 칼보다 강하다"

The power (less?) of the keyboard??

"...morphine sulfate is a powerful opiate used to **relive** pain....."





can be & maybe

- "can" ability or capability
 Can she swim?
 Can you speak Korean?
 ... our results shows that it can be...
- "maybe" probable

may be & maybe

- may be (two words) might be, could be, or would be = possibly
- maybe (one word) = probable

who & whom

...35 patients were enrolled in this study, and who/whom (?) showed that...

• Current English: use **who** in all contexts

possible & probable & perhaps

- Possible it could happen < 50%
- **Probable** more likely to happen > 50%

"...our results show that the outcome is **probably** more favorable.... "

consist/comprise/composed

"...our patient group selection..."

- consisted of...
- comprised of...
- was composed of...

English Medical Abbreviations

Abbreviation 약어 略語

- · Used frequently in medicine, military
- Boost efficiency
- Disadvantages:
 - difficult communication, understanding
 - ambiguity

THAAD

• 세드? 새드? SAD?



Terminal High Altitude Area Defense
 (전구 고고도 지역방어)

...in medicine...

- <u>Methionylthreonylthreonylglutaminylargi</u> <u>nyl.....isoleucine</u> <u>186,819 letters</u>
- Pneumonoultramicroscopicsilicovolcan oconiosis – longest word in English dictionary

Orthographic styling

- Periods (stops): used in styling abbreviations
- Prevalent practice today is unnecessary

 $\begin{array}{cccc} \text{Ph.D} & \rightarrow & \text{PhD} \\ \text{M.D.} & \rightarrow & \text{MD} \\ \text{C.O.P.D.} & \rightarrow & \text{COPD} \\ \text{e.g.,} & \rightarrow & \text{eg} \\ \text{c.f.} & \rightarrow & \text{cf} \end{array}$

April $16^{th} \rightarrow Apr. 16 \rightarrow Apr 16$

...plurals...

- Plurals for medical acronyms
 → add lowercase s (no apostrophe)
- eg,
 - one OCP, two OCPs(oral contraceptive pills)
 - MRIs
 - 1970s

Do Not Use! (JCI)

- IU <u>international unit</u> mistaken for "IV" or "10"
- MgSO4 <u>magnesium sulfate</u> may be confused with "MSO4"

논문 번역 의뢰

- · All terminology in English
- eg

Objective: 이 연구의 목적은 Traumatic brain injury (TBI) 후 early period에 Unfavorable neurological outcome을 예측할 수 있는 clinical and radiological risk factors를 identify해서, 궁극적으로 TBI후 초기에 neurological outcome을 improvement를 목적으로 clinical trials를 시도하기 위한 대상 환자 선정 기준 (selection criteria guideline) 을 마련하는데 있다.

Thank you!

Merci!

Danke!

Grazie!

お陰様で!

Спасибо!

Gracias!

σασ ευχαριστώ!

Siyakubonga!