RE: M.MED (Internal Medicine) Research report corrections: 17/APRIL/2007

A study of vitamin C levels in relationship to stress hormone response and acute phase reaction in patients with newly diagnosed pulmonary tuberculoses

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Here below is a list of corrections on the research report

1) Page viii - Introduction: Human immune deficiency virus spelling corrected to Human Immunodeficiency Virus
   - Reseachers spelling corrected to Researchers
   - …..Countries have seen enormous increases…. changed to …..Countries have resulted in enormous increases….
   - ……Have a permissive role… changed to…..Have a role….
   - Aim: ….Acute phase reactants changed to ….Acute phase reaction

2) Page ix - Methods and material: ….Helen Joseph hospital corrected to… Helen Joseph Hospital
   - ….Determine any correlation…. changed to…..Determine the correlation…
   -Results: 'There were marked differences in the clinical features of the study and control patients' .This statement was deleted.
   - Results: 82-92 ± 8.06 corrected to 82.52 ± 8.88

3) Page x – Results - white cell count ± 4.90 corrected to ± 4.94
   - Spaces between numbers involving mean values were standardized
   - White cell vitamin C is corrected to 29.85 from 29.86
   - Correlation studies did not show any significance between… changed to...Corrrelation studies did not show any significant differences between the different variables
   - …However there was a small and inverse correlation changed to…There was an inverse correlation….

-Spaces between numbers involving mean values standardized

4) Page xi- Discussion

…Profile in the… changed to… Profile of the ….

-‘Suggesting adequate stress hormone responses’ ….. This statement is deleted

5) Page xii- Conclusion: …Study demonstrates apparently adequate… changed to: Study demonstrates adequate ….

…… Or acute phase responses, changed to….Or acute phase reactants

6) Page xiv- Table of contents 2.1- Space before introduction deleted.

7) Pages xvi/xvii – Lay out changed to 3 columns

8) Page 1 -Introduction …. 1.87 millions and 2.8 millions corrected spelling to million

- Human Immune Deficiency virus corrected to Human Immunodeficiency Virus

-HIV: written in full: Human Immunodeficiency Virus with the start of the sentence

9) Page 2 -HIV and Tuberculosis: AIDS – written in full: Acquired immunodeficiency syndrome

- HIV ….. Written in full: Human Immunodeficiency Virus at start of the sentence

10) Page 3- HIV and Tuberculosis…Primary progressions –changed to…. Primary Progression

-… Associated with Immune… corrected to …Associated with immune….

11) Page 4- Nutrition and tuberculosis: …. By a finish study corrected to … By a

Finnish Study

- (Peronne 1999) corrected – space before Peronne deleted to (Peronne 1999)

12) Page 5- Tuberculosis and Vitamin C ….Is water soluble… corrected to ….Is a water soluble….

- Sterodgenisis changed to Sterodogenesis

13) Page 6 –Adrenal function in tuberculosis: …Circardian corrected to …Circadian

14) Page 8 - Tuberculosis and the adrenal gland:

- Circardian, rhythm,,disregulation all corrected to Circadian, rhythm, dysregulation

15) Page 13- C- Reactive Protein: …. (Louw et al 1992)…. corrected with full stop after brackets.

16) Page 14-- Ferritin: KDA- corrected to KDa

17) Page 17 - Smoking and tuberculosis: Space after CD4 is deleted

18) Page 18- Objectives of the study: …. Acute phase reactants levels… corrected to….Acute phase reactant levels….

- Statement starting with: 'Patients with newly diagnosed active pulmonary'….is removed and modified in section of Methods

19) Page 18- Rationale: Steriodgenesis-corrected to Steroidogenesis

20) Pages 19 & 20- Study design:…Researcher for the study purposes…corrected to….Researcher for study purposes….

…Febuary 2002 and October 2002 corrected to March 2002 and October 2002

- Some text from Objectives of the study transferred and modified here
- Full stop inserted after …. Management of all

21) Pages 20& 21 - Subject selection: Comma inserted after Ziehl Nielsen
- Full stop after ….Written consent
- Aids corrected to AIDS

22) Page 21- Sample size: The figure 160 (sample size) was derived using the normal distribution curves of the variables
-….(89) were control …. corrected to … (89) control……

23) Page 23 – Chest radiography-
….recorded on all study patients as were abnormalities / normalities in the control patients corrected to….. Recorded for all patients….

24) Page 25 – White cell vitamin C ASSAY corrected to White cell vitamin C assay
- EDTA – Written in full: Ethylenediamine tetra acetate
- CMC solution: 0.9 gm NaCL, 1.0 gm Methyl Cellulose, 2 ml Glycerol, made up to 100 ml with distilled water
- DNPH-Written in full: 2, 4 Dinitrophenylhydrazine

25) Page 29- Urine Cotinine: 1 ml of cold….corrected to One microlitre….
- Centrifugation corrected to Centrifuged
- 125 corrected to 1^{125}

26) Page 30- Statistical analysis and Ethical considerations:
…..Between vitamin c… corrected to… Between vitamin C….
-…Wits … Corrected to ….University of the Witwatersrand

27) Page 39 – Nutrition:

- Over 60 % controls …..Corrected to….Over 60% of the controls

28) Page 41 -Table 7:

- Undone –bold on moderate, and No
- NO corrected to No

29) Page 42- Admission diagnosis

- Full stop inserted after …. Diagnoses consumed alcohol

30) Page 43 – Tables 8 A/B:

- Key at the bottom

WC = Workman's compensation

MVA= Motor Vehicle accident

PVA=Pedestrian vehicle accident

DVT= Deep venous thrombosis

31) Page 49 - Table 10: Study patients:

- hilar ademopathy corrected to Hilar adenopathy

32) Page 51 - Space between numbers involving mean values standardized

33) Page 52 - Table 12:

- Space between phosphate and bracket corrected

34) Pages 55 to the end, Sentences begin with words not numbers.

- A total of 85… is added
- There were 89 …. is added

35) Page 57 -Plasma Vitamin C:

…… Patients just did not …. Corrected to ….. Patients did not…

36) Page 57 –‘Results for plasma epinephrine levels were obtained in 64 control and 57 study patients with mean levels’….replaced, ‘A total of the 64 control and 57 study patients…’

37) Page 63 – Plasma vitamin C and cortisol:
- … (Positive or negative) determined between, corrected to …. (Positive or negative) found between……

38) Page 66 - There were no correlations …… corrected to, There was no correlation….
- Figure 6A – corrected space Figure 6A

39) Page 67- Figure 6B: Corrected spacing in Figure 6B
- There was no significant correlation …, corrected to There was no correlation…...

40) Page 69 - Figure 7B:
- Figure 7B: Space inserted to Figure 7B
- X-axis label corrected

41) Page 70 - Plasma Vitamin C and Ferritin:
…There was no significant correlation….corrected to, There was no correlation…
Space corrected in Figure 8A

42) Page 71 – Space corrected in Figure 8B
- 32(47.05%) study... corrected to, A total of 32 (47.05%) study…

43) Page 72, 73, 74, 75, 76, 77 : No significant correlation...corrected to…No

correlation…

- 3 (3.57%) control…. corrected to,There were 3 (3.57%) control…
- Sentences corrected to begin with words but not numbers
- ….. There was a small and inverse….. Corrected to, There was an inverse…

44) Page 80 - Discussion: Patients demographics:

- 'There were more males than females in the both study and control groups 53.5% and 69.7%) respectively compared with 46.5% and 30.3% respectively)'. This statement was deleted.

45) Page 81- 60.7% of control…. re-written as, 'In the control group, 60.7% of the patients were smokers compared with 39.4% in the study group….'

-79.6% and 57.1% of …… re-written as, 'A proportion of 79.6% and 57.1% smokers in control and study patients had less than 10 pack years.'

46) Page 82-.The statements below were deleted:

'This relationship is not apparent in this study as there were more smokers in the control group that in the study patients'.

'This could not be demonstrated in this study since there were more alcohol consumers in the controls that in the study group'.

47) Page 84 –Paragraph 7.4 and 7.5 deleted

- New paragraph 7.4 with title 'Nutritional indicator' inserted

48) Page 86 - paragraph 7.6: Chest x- ray findings deleted

Paragraph 7.8: (Microbiology) deleted

49) Page 87- 80% of the controls…..corrected to, A proportion of 80% of control….

50) Page 88- Paragraph involving the catecholamines is rewritten: ....'A majority of patients in both the study and control group had normal or increased catecholamine levels. A total of 93% of control patients and 76% of study patients had normal dopamine levels. A proportion of 31.2% of control and 39% of study patients had increased norepinephrine levels while high epinephrine levels were found in 53% and 48% of control and study patients respectively.'

51) Page 88 - Phenylethandamine –N- methyl transferase corrected to Phenyl ethanolamine – N- methyl transferase

52) Page 89 - 95.8% of the study….. re-written as… In the study group, 95.8% of patients …

53) Page 90- 90% of the study…. rewritten as, A proportion of 90% of the study….. -'50% study patients and 53.4% control patients had high urine cotinine levels. 39.4% of the study population was cigarette smokers while for the controls it was 60.7%.' This was rewritten as: 'A total of 50% of the study patients and 53.4% control patients had high urine cotinine levels with cigarette smoking of 39.4% and 60.7% in study and control patients respectively'.

54) Page 91 …. (alcaide at al…) corrected to ….(Alcaide et al….)

55) Page 91 ….However, small and inverse……..corrected to, However an inverse…..

This statement was deleted : 'The major limitation in this study was the unexpected low plasma vitamin C levels that were found in the control group which limited our ability to adequately compare vitamin C levels in control patients and patients with newly diagnosed active pulmonary tuberculosis and

assess the impact of low vitamin C levels on stress hormone response and acute phase reactants.'

56) Page 93 - Conclusion was re-titled Summary
- 'The aim of the study was to measure vitamin C plasma levels, as well as stress hormone levels and acute phase reactants in patients with newly diagnosed active pulmonary tuberculosis and control patients (without tuberculosis), to determine if there was any relationship between vitamin C levels and the levels of the other variables', was rewritten to, 'The study measured vitamin C , stress hormone and acute phase reactant levels in patients with newly diagnosed active pulmonary tuberculosis and control patients (without tuberculosis) and determined a relationship between vitamin C and other variables.'…..
..Vitamin C in sterodgenesis… corrected to…Vitamin C in steroidogenesis

57) Page 95 - Conclusion was re-written :
'This study failed to demonstrate an association between vitamin C levels, stress hormone response and acute phase reactants. This may suggest a limited role of vitamin C in steroidogenesis and catecholamine synthesis in our patients or alternatively that other factors were playing a more important role. The low levels of vitamin C in both the study and control patients raises further questions as to whether African people in general have low levels of vitamin C and if so, why?'

58) Page 96 - Semi colon deleted after period

59) Page 97 - 109 - Corrections made to Authors names and titles of articles

60) Page 114 –BRINCHIAL BREATHING corrected to BRONCHIAL BREATHING