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Other Research (1966 -)

P.N.Campbell, E.Lowe, M.D.Buckley-Sharp (1966). The Morphological Origin and Function of the Polysomes isolated from Rat Liver. *Biochem.J.*, 99, 22c.

Report based on polysome/ribosome separation on sucrose density gradients. [No abstract]

D.M.McKinnon, N.M.Bleehen, M.D.Buckley-Sharp, F.T.C.Harris, A.Bracewell (1970). A Record System for Carcinoma of the Larynx and Hypopharynx designed for Computer Analysis. *Journal of Laryngology and Otology*, 84, 679-688.

Definition of a dataset for carcinoma of the larynx and hypopharynx, with its use for a retrospective survey, and in prospective use. Need for data collection proformas to show the coding structure clearly. [No abstract]

N.M.Bleehen, D.M.McKinnon, F.T.C.Harris, M.D.Buckley-Sharp (1970). An analysis of error in the retrieval of patient case note data. *Journal of Laryngology and Otology*, 84, 689-695.

A companion to the above paper, being an analysis of errors in the retrospective analysis of 389 patients (attending 1946-1965). The data collection was duplicated and the extracts compared. [No abstract]

M.D.Buckley-Sharp (1971), Anaemia of Investigation. *Lancet*, 1971-i, 916.

Although only a brief report in the form of a letter, this paper has been much cited, and appears within the laboratory accreditation standards of the American College of Pathologists. The report concerns the effect on haematocrit of routine phlebotomy practice in an inpatient ward. 70 patients were reviewed in two groups (<4 and >=4 phlebotomies). Their total iron losses and daily average iron losses were calculated from the volumes of samples collected. There is an iatrogenic component, which may cause anaemia in patients subjected to many investigations. [No abstract]

M.D.Buckley-Sharp, A.L.Miller (1973). The Anion Gap. *Lancet*, 1973-ii, 206.

Normal distribution of the anion gap (also called the ions difference) when including potassium in the calculation. [No abstract]

M.D.Buckley-Sharp (1974). The correction of calcium for varying albumin levels in linked and unlinked populations. Two unpublished reports.

The published factors for correcting calcium were usually given by regression analysis as 0.7 mg/dL per g/dL of albumin (equivalent 0.018 mmol/L per g/L of albumin). This was tested as part of the implementation of a Vickers M300 analyser. I found that the factor (by best estimate regression) varied considerably from month to month. But, the amount of variation in the factor was not such as to reintroduce any significant residual correlation into the data. Therefore, a correction factor may be chosen from within the range of observed variation merely because it is easy to use in calculation. Typically, we now use 0.02mmol/L per g/L albumin. Having chosen a factor arbitrarily by this method, the level of 'standard albumin' to which to correct is selected so as to fix the reference range wherever may be required ie, the chosen 'standard albumin' has no physiological basis, and can even be chosen as zero. Published work on both the factor and the 'standard albumin' has not otherwise recognised these requirements. [No other abstract]

M.D.Buckley-Sharp, A.L.Miller, J.F.Stevens, L.R.Worsley, F.R.A.Yeomans (1976). Introduction of a Vickers M300 analyser into the routine service of a hospital laboratory – 1. Installation, staffing, logistics. *Journal of Clinical Pathology*, 29, 322-327.

Describes installation and use of a high-speed M300 analyser, including workload. Costs were assessed. [No abstract]

M.D.Buckley-Sharp, A.L.Miller, J.F.Stevens, L.R.Worsley, F.R.A.Yeomans (1976). Introduction of a Vickers M300 analyser into the routine service of a hospital laboratory – 2. Tests, methods, evaluation. *Journal of Clinical Pathology*, 29, 328-335.

Describes the methods, and evaluates performance for 13 channels of analytes, and implementation of urine analyses where feasible. Also, an evaluation of the mechanical performance. [No abstract]

A.L.Miller, T.C.Stokes, J.F.Stevens, M.D.Buckley-Sharp (1983). A Simple Numerical Discriminant in the Follow-up of Lung Cancer. *Clinical Radiology*, 34, 251-253.

In the absence of a specific tumour marker for lung cancer, this paper identified 6 candidate routine tests (ESR, WBC, Albumin, Alk.Phos., AST, Sodium) which showed group differences for mortality at 12 months. Using this dichotomy, a discriminant function could be defined, which used routine laboratory tests to identify 82% of those dying within 12 months, and 66% of those surviving. [No abstract]

C.Kennedy, D.Rickards, S.Lee, M.D.Buckley-Sharp, P.Dawson (1988). A double-blind study comparing the efficiency, tolerance and renal effects of iopromide and iopamidol. *British Journal of Radiology*, 61, 288-293.

Review showed that the two drugs had no differential effects on renal function while also being equally suitable radiologically. [No abstract]

M.D.Buckley-Sharp, D.A.Gardner (1996). High ambient temperature: a spurious cause of hypokalaemia. British Medical Journal, 312, 1653.

I was asked to review a paper (published as Masters et al, *ibid*, p1652-1653) about spurious hypokalaemia, where the results were so surprising that we promptly recovered about 100,000 of our own results and showed that the phenomenon could be easily replicated. Heparin samples allowed to overheat in transit to the lab show a reduced plasma potassium. The effect may be less with serum, but is now widely recognised. [No abstract]

K.L.Flanagan, M.D.Buckley-Sharp, T.Doherty, C.J.M.Whitty (2006). Quinine levels revisited....., *Acta.Trop.* 2006 Feb, 97(2), 233-7.

Where we reviewed available cases of falciparum malaria managed by the Hospital for Tropical Diseases over several years. We showed that standardisation of the iv treatment regime nearly always produced serum quinine results in the desirable range. As no clinical management change arose by monitoring quinine levels, measuring the levels had no benefit and was stopped. Recommendations by HTD are used by most hospitals in southern England receiving cases of malaria. [No other abstract]

M.D.Buckley-Sharp, Creon – Integrating the Patient Experience into Clinical Practice. Unpublished.

Handout prepared for a training day in March 2013, convened by the Upper GI Tumour Working Group, NWLondon Cancer Network. Includes supplements on 'Long Term Management of Micronutrients after Whipple's Procedure' and 'Peri-Operative Fluids'. [Complete Handout](#).

M.D.Buckley-Sharp (2012), Digital Projection, at RPS Imaging Science Group.

The principles of colour representation leading to methods of digital projection. Content available as Talk (Miscellaneous) M2.

M.D.Buckley-Sharp (2018), JPEG Dissected, at RPS Imaging Science Group

What's in a JPEG file, how can it become very large, why is that a problem for digital image events, and what to do about it. Content available as Talk (Miscellaneous) M5.