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## Primary Hyperparathyroidism and Psychiatry: Manifestations, Causes and Management

Dr Sukhmeet Singh<sup>1,2</sup>, Dr Victoria Stokes<sup>3</sup>, Dr Al Hakam El Kaubaisy<sup>4</sup> and Dr Judy Rubinshtein<sup>4,5</sup>

<sup>1</sup>NHS Greater Glasgow and Clyde, Glasgow, United Kingdom;

<sup>2</sup>University of Glasgow, Glasgow, United Kingdom; <sup>3</sup>Addenbrooke's Hospital, Cambridge, United Kingdom; <sup>4</sup>Cambridgeshire and Peterborough NHS Foundation Trust, Cambridge, United Kingdom and <sup>5</sup>University of Cambridge, Cambridge, United Kingdom

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**Aims:** Primary hyperparathyroidism (PHPT) is characterized by hypercalcaemia with an elevated or inappropriately normal parathyroid hormone level. In clinical psychiatry, it is often detected through routine blood investigations for hypercalcaemia. PHPT is the most common cause of persistent hypercalcaemia and the third most prevalent endocrine disorder after diabetes and thyroid disease. Although it can occur at any age, it typically presents later in life, with a mean age of diagnosis of 65 years. Women are affected three to four times more frequently than men. As awareness of PHPT screening increases, the number of individuals receiving mental health treatment who also have PHPT is likely to rise.

This literature review was prompted by the presentation of several patients with primary hyperparathyroidism (PHPT) or lithium-associated hyperparathyroidism (LAH) in our clinical practice. Our aim was to synthesize the available evidence to provide an updated overview for clinicians regarding the relationship between PHPT and both depression and cognitive impairment, as well as to review the existing literature on LAH.

**Methods:** We conducted a narrative review of the literature, focusing on the relationship between PHPT and both depression and cognitive impairment. We did not explore the association between PHPT and psychosis due to the limited literature in this area, which is primarily confined to case reports. Our search yielded 42 full-text articles, which were reviewed in detail by all authors for inclusion in this study. We discussed the findings and reached a consensus. Additionally, we developed three fictionalized case reports based on amalgamated patient presentations from our clinical experience.

**Results:** Moderate to severe depressive symptoms occur in approximately one-quarter of individuals with PHPT before parathyroidectomy, and about two-thirds show improvement one year post-surgery. Further research is needed to guide antidepressant treatment, particularly regarding when to withdraw this post-operatively if the depression may be attributed to PHPT.

**Conclusion:** Patients diagnosed with PHPT should be referred to endocrinology clinics. Current surgical criteria primarily focus on classical PHPT symptoms, such as osteoporosis. However, expert panels recognize that non-specific symptoms, including depression, often improve following parathyroidectomy. This suggests that surgery may be a cost-effective intervention to prevent further health deterioration.

Abstracts were reviewed by the RCPsych Academic Faculty rather than by the standard *BJPsych Open* peer review process and should not be quoted as peer-reviewed by *BJPsych Open* in any subsequent publication.

## Substance Abuse in Teenage Pregnancies – The Current Role of Psycho-Education

Dr Natasha Singh<sup>1</sup>, Dr Pruthi Desai<sup>2</sup>, Miss Alexandra Minseo Kim<sup>3</sup> and Dr Shabbir Amanullah<sup>4</sup>

<sup>1</sup>Dartford and Gravesham NHS Trust, Dartford, United Kingdom;

<sup>2</sup>East London NHS Foundation Trust, London, United Kingdom;

<sup>3</sup>University of Central Lancashire, Preston, United Kingdom and

<sup>4</sup>Woodstock General Hospital, Ontario, Canada

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**Aims:** To explore the current availability of psycho-education as a primary prevention against substance misuse in unplanned pregnancies for adolescents in the UK. It was noted that 80% of young adults registered with drugs and alcohol services started misusing substances under the age of 15 years. This poses an apparent risk of young mothers who are abusing drugs to have unplanned pregnancies. Moreover, pregnancies occurring sooner than desired are associated with higher risks to the health of the fetus because of delayed recognition. A study from the United States shows that women who reported using hard drugs, cannabis or smoking cigarettes at age 18 had an increased likelihood of risk behaviours and subsequent unplanned pregnancies.

**Methods:** The National Office of Statistics and the UK Government website were scanned to retrieve data appropriate to adolescent substance misuse and unplanned pregnancies. It was found that the conception rate for women aged under 18 years in England and Wales in 2021 was 13.2 per 1,000 women. Additionally, 11,326 young people were found to be in contact with alcohol and drug services between April 2021 and March 2022. Out of which 234 (5%) were young mothers or pregnant.

**Results:** The need for psychological intervention for young women focussing on substance misuse has been an ongoing dilemma. The UK government introduced programmes such as the 10-year Teenage Pregnancy Strategy for England which aimed to reduce the conception rate for women under 18 years. However, medical services often do not have data on substance misuse in young people with unplanned pregnancies as they have not had prior contact with the service. This puts them at increased risk of health complications during the pregnancy and ultimately risk of neonatal withdrawal syndromes. This demonstrates an increasing requirement to introduce psycho-education accessible to adolescents between 16–18 years to create awareness of risks of substance misuse and unplanned pregnancies.

**Conclusion:** Even though there are programmes preventing and educating regarding unplanned pregnancies, there is little support available to adolescent mothers who have ongoing substance misuse behaviours. Misusing substances while pregnant poses a risk not just to the fetus, but increases the complexities of bearing the responsibility of being a parent with a misuse disorder. Therefore, there is an emergent need for psycho-education accessible to adolescents to educate them against substance misuse during unplanned pregnancies.

Abstracts were reviewed by the RCPsych Academic Faculty rather than by the standard *BJPsych Open* peer review process and should not be quoted as peer-reviewed by *BJPsych Open* in any subsequent publication.

## Risk of Psychosis in People of Irish and Chinese Ethnicities in Yorkshire

Mr Sarthak Sinha<sup>1</sup>, Dr Tariq Mahmood<sup>2</sup>, Dr Alastair Cardno<sup>1</sup> and Dr Emi Obode<sup>2</sup>

<sup>1</sup>University of Leeds, Leeds, United Kingdom and <sup>2</sup>St James University Hospital, Leeds, United Kingdom

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