DETERMINE IF BBS IS THE UNDERLYING CAUSE OF YOUR PATIENT'S RENAL ANOMALIES

There is a possibility that one or more of your patients with renal anomalies has Bardet-Biedl syndrome (BBS).[1,2]

BBS **IS A RARE CILIOPATHY ASSOCIATED WITH RENAL IMPAIRMENT**

such as polyuria, frequent urinary tract infections, or end-stage renal disease requiring renal transplantation[2,3]

UP TO 82%

of patients with BBS are likely to be affected by renal anomalies and malformations[1,2]

RENAL ANOMALIES, EARLY-ONSET OBESITY, AND VISUAL IMPAIRMENT ARE ALL KEY SIGNS OF BBS[2,4]

~50%

of patients with BBS have structural renal anomalies visible on an ultrasound[1]

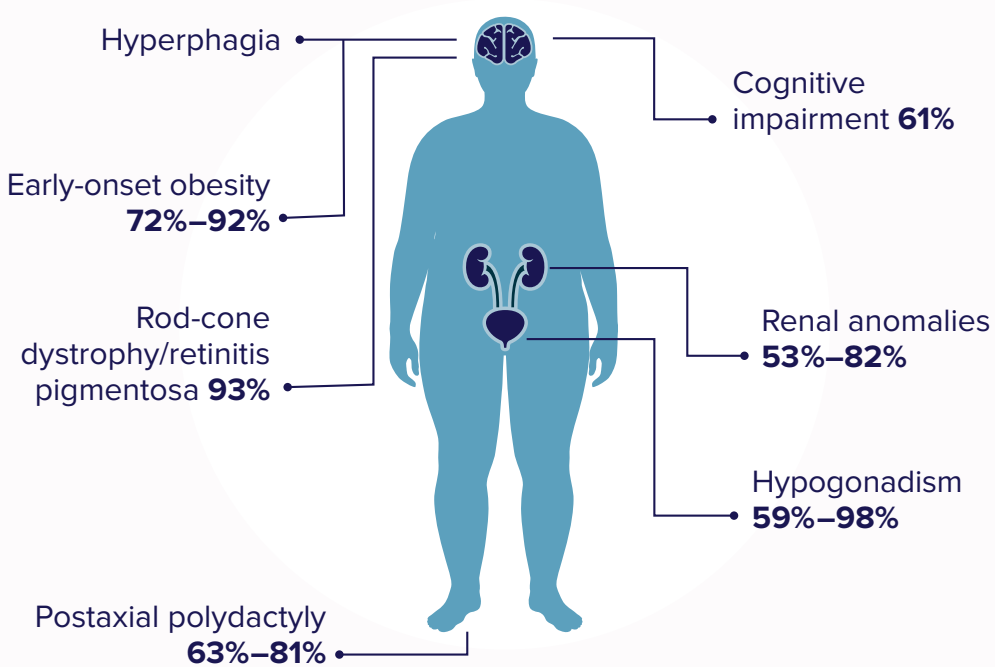
OBESITY DUE TO BBS CAN'T WAIT

Obesity due to BBS is early-onset and progressive; it is critical to proactively mitigate it to reduce further impact on renal function and other comorbidities[4-6]

YOU ARE UNIQUELY POSITIONED TO DIAGNOSE PATIENTS WITH BBS[1,2]

Patients may be unaware of the connection between their renal anomalies and other symptoms[1,3,5]

BBS is a ciliopathy that impacts several body systems, requiring multidisciplinary care[3,5]



To help patients get the support they need, it is important to proactively diagnose BBS and educate patients on underlying causes of kidney-related issues[4,6]

HELP YOUR PATIENTS GET THE SUPPORT THEY NEED

Rhythm InTune
Support made personal

Rhythm InTune helps patients navigate their journey to a BBS diagnosis by providing access to educational resources, connecting them to a community, and sharing information about treatment.

Share the postcard

Please share the Rhythm InTune postcards provided by your Rhythm Representative with your BBS patients or their caregivers.

References: **1.** Forsythe E, Sparks K, Best S, et al. Risk Factors for Severe Renal Disease in Bardet-Biedl Syndrome. *J Am Soc Nephrol*. 2017;28(3):963-970. doi:10.1681/ASN.2015091029 **2.** Putoux A, Attie-Bitach T, Martinovic J, Gubler MC. Phenotypic variability of Bardet-Biedl syndrome: focusing on the kidney. *Pediatr Nephrol*. 2012;27(1):7-15. doi:10.1007/s00467-010-1751-33. **3.** Florea L, Caba L, Gorduza EV. Bardet-Biedl Syndrome-Multiple Kaleidoscope Images: Insight into Mechanisms of Genotype-Phenotype Correlations. *Genes* (Basel). 2021;12(9):1353. doi:10.3390/genes12091353 **4.** Forsythe E, Mallya UG, Yang M, et al. Burden of hyperphagia and obesity in Bardet-Biedl syndrome: a multicountry survey. *Orphanet J Rare Dis*. 2023;18(1):182. doi:10.1186/s13023-023-02723-4 **5.** Forsythe E, Beales PL. Bardet-Biedl syndrome. *Eur J Hum Genet*. 2013;21(1):8-13. doi:10.1038/ejhg.2012.115 **6.** Forsythe E, Kenny J, Bacchelli C, Beales PL. Managing Bardet-Biedl Syndrome-Now and in the Future. *Front Pediatr*. 2018;6:23. doi:10.3389/fped.2018.00023

Rhythm® PHARMACEUTICALS