

Dear Doctors and Colleagues,

We are pleased to announce that our Expanded Carrier Screening (ECS) service has partnered with Baylor Genetics, to offer two options tailored to your clinical needs, **effective from Sep 1<sup>st</sup>, 2025**.

1) **CUHK 302 Panel**, a CUHK customized designed panel based on internal local cohort data (PMID: 33805278, 33602879). This panel includes 302 genes for female and 280 genes for male (excluding X-linked conditions). Details see in ***File 1\_CUHK ECS\_302 gene list***.

2) **Comprehensive Panel**, the currently most comprehensive GeneAware™ panel from Baylor Genetics. This panel covers an expanded set of rare conditions and totally includes 611 genes for female and 559 genes for male (excluding X-linked conditions). Details see in ***File 2\_Baylor Genetics ECS\_611 gene list***.

For further details, please refer to CUHK OG department's laboratory service page at <https://www.obg.cuhk.edu.hk/services/laboratory-services/overview/>.

Table 1 Performance of the two panels

	Carrier Rate (Internal data)	At-risk couple (ARC) Rate*	ARC Rate (excluding ARC for G6PD deficiency and for homozygous <i>GJB2</i> c.109G>A)
<b>CUHK 302 Panel</b>	Female: 74.3%	18%	5.6%
	Male: 71%		
<b>Comprehensive Panel</b>	Female estimated: 87.1%	Will be available in 2025-Oct	Will be available in 2025-Oct
	Male estimated: 86.4%		
Data summary till 2025 July			

\***At-Risk Couple**: a couple both carry at least one (likely) pathogenic variant for the same autosomal recessive condition, or the female partner carries at least one (likely) pathogenic variant for an X-linked condition.

We are confident that these enhanced screening options will better support your clinical practice. Should you have any questions or require further assistance, please do not hesitate to contact us. Thank you for your continued trust and collaboration.

Please kindly note information below regarding documents & sample requirements, turn-around-time (TAT) and price:

Table 2 Testing information

Items	Information
Requisition form	attached <b><i>File 3 General Request form (wef 20250701) with general consent</i></b>
Consent form*	attached <b><i>File 4 CUHK 擴展性攜帶者篩查知情同意書_中文繁体版_v1.0</i></b> or attached <b><i>File 5 CUHK ECS consent_English_v1.0</i></b>
Sample requirements	<b>3 mL x 3 tubes</b> whole blood ( <b>total 9mL</b> ) in EDTA tube/ individual
Sample store	Room temperature if sent to our lab on the same day 4°C if sent to our lab on the next day
Report TAT	3-4 weeks after samples received by our lab
Price	CUHK 302 panel: HKD 4000/ individual  Comprehensive panel: HKD 6000/ individual  Discount for a couple request on the same day: HKD 500 discount/couple applies when a couple submit samples on the same day

\* For individual whose partner has completed Natera ECS testing, we will use the same Natera panel to ensure consistent reproductive risk assessment (see attached ***File 6\_CUHK ECS workflow and example v1.0***). A Natera consent form is required.

Please kindly find attached workflow and example.

Please feel free to contact the Prenatal Genetic Diagnosis Centre, Department of Obstetrics and Gynaecology if you have any further questions. Thank you for your continued partnership and support.

**On behalf of Dr. Richard CHOY**

Prenatal Genetic Diagnosis Centre, Department of Obstetrics and Gynaecology, The Chinese University of Hong Kong

Tel:(852) 3505 1557 | Fax:(852) 3505 4810 | [www.obg.cuhk.edu.hk](http://www.obg.cuhk.edu.hk)