

## QTc Calculator App — Quick User Guide

### 1. Accessing the App

Open the app in your mobile or desktop browser:

<https://qtc-calc.netlify.app/>

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### 2. Choosing Rhythm Type

Select the appropriate QRS category:

- **Narrow Complex (<120 ms):** Use for normal QRS duration.
  - **Wide Complex ( $\geq 120$  ms):** Use for BBB, paced rhythms, or IVCD. This mode will ask for **QRS duration** and **gender** (for formulas requiring it).
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### 3. Entering ECG Values

Input the following measurements from your ECG:

- **Heart Rate (bpm)**
- **QT Interval (ms)**
- If wide QRS:
  - **QRS Duration (ms)**
  - **Gender** (for wide-QRS Rautaharju)

After entering values, tap **Calculate QTc**.

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### 4. Understanding the Results

The app displays QTc values generated using evidence-based formulas:

- Bazett
- Fridericia
- Framingham
- Hodges
- Rautaharju (narrow QRS)
- Bogossian or Rautaharju Wide-QRS (wide QRS mode)

These provide a multi-formula perspective to aid clinical interpretation.

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## 5. Clinical Interpretation Notes

- QT and QTc must always be interpreted within **full clinical context**.
- Standard formulas may overestimate QTc in **wide-QRS rhythms**, which is why adjusted formulas are provided.
- Ensure QT is measured at the end of the T-wave and averaged in irregular rhythms.

This tool supports—not replaces—clinical judgment.

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## 6. Saving the App to Your Phone (iOS & Android)

### iPhone (Safari)

1. Open <https://qtc-calc.netlify.app/> in Safari.
2. Tap the **Share** icon (square with arrow).
3. Select **Add to Home Screen**.
4. Tap **Add**. The app will now appear like a native app.

### Android (Chrome)

1. Open <https://qtc-calc.netlify.app/> in Chrome.
  2. Tap the **: menu** in the top right.
  3. Tap **Add to Home screen**.
  4. Confirm **Add**. The app will install as a standalone web app.
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## 7. Support

If you encounter issues or want to request new features, reach out to the developer or report feedback via your usual communication channel.