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Liip

Alert notifications and warning notifications are alarms that depend on the mode of use. Liip offers the possibility of using Liip Smart Monitor through two modes of use, custom mode and algorithm mode:

Algorithm Mode

It is the default mode of use. Notifications or alarms have been prepared by our medical team, medical societies and by engineering. These are mathematical algorithms of extraordinary precision.

Alarms are not generated because suddenly thresholds are exceeded, but the system compares trends, intervals of change and the vital signs themselves, generating notifications and alarms only in case of detecting changes that persist can end up causing a problem.

At Liip we have achieved a very important advance in monitoring models, reducing the false alarms caused by traditional pulse oximeters, which alerted us to any change even if it was not important. Thus, you could observe sometimes oxygen levels of 88% or 84%, as well as high heart rates, and you don't receive alerts. The reason is that these changes have been short-lived and the algorithms have not determined that they were a cause for alert. This is because these sudden changes are caused by a physiological change that is not harmful to the baby. These algorithms, developed by medical societies and our medical department, activate the alert mode when oxygen levels drop below 90%, and the alarm is generated based on the trend of change between 1 and 2 minutes later (doing it before only generates fears unnecessary between parents, is proven by science). Algorithms for heart rate are related to the age of the baby or child and are specialized in detecting paroxysmal and supraventricular tachycardias.

Custom Mode

Must be activated directly by Liip, and it must come from a specific request made by the user himself, by sending a request e-mail. It is a mode of use ONLY recommended for very particular cases of babies or children who are sick or diagnosed with pathologies that require special treatment. In this mode of use, the user-customized the parameters from which he needs the alarms to sound, usually made by his own doctor. The alarms are generated at the moment the values that exceed the defined thresholds are detected so that the "false" alarms generated by baby movements or any small natural change are increased. Therefore it is recommended only for particular cases.

On the other hand, for a notification to sound, it has to be activated in the Sounds section, in the menu of the Liip Care app. You will see that the **alert notifications** cannot be deactivated, they will always sound.

It is important to remember that the control configuration of your Smartphone or Tablet holds precedence over all of the system's applications. This means that if the phone is in silent mode, all of the applications will be in silent mode, including Liip Care. For this reason, for alarms and notifications to sound, you must go to smartphone settings, press applications and allow Liip Care to sound even if the Smartphone is in silent mode. We are going to explain how the two operating systems (Android and iOS) manage the sounds of a smartphone and how to help you:

Sound on iOS

The iOS operating system controls 100% the operation of the iPhone and iPad. If you mute it or use it in do not disturb mode, iOS will not allow any app to generate any sound. As long as you

are in do not disturb mode, neither Liip nor anyone, not even a call, can intervene. It is the most limiting system that exists.

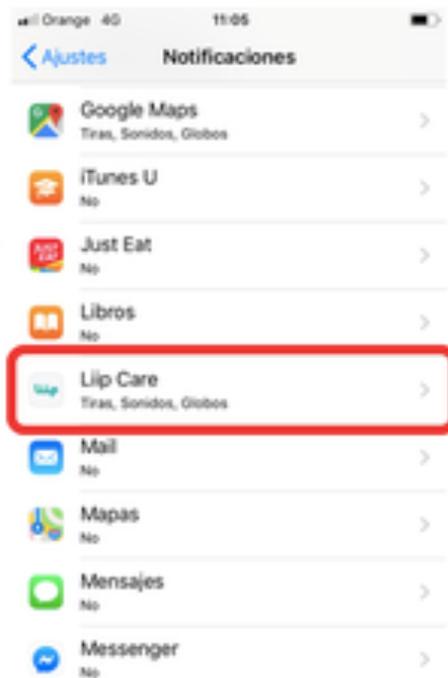
How to work with Liip?

Although iOS does not allow sounds to be in silent mode, what it does allow is to silence everything that can be a nuisance at night and leave only the essentials.

In the following route:

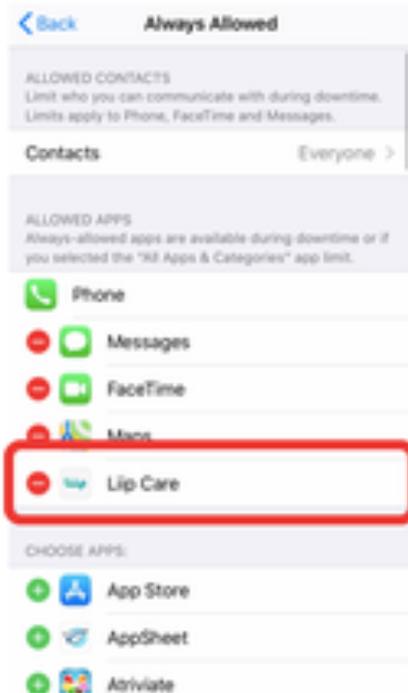
Settings > Notifications > Notification style

What you can do is silence the email, whatsapp but allow Liip Care to play.



It is also recommended in iOS to give all the permissions to Liip Care:

Settings > Screen time > Always allowed > Choose Liip Care



Sound on ANDROID

Android is a much less restrictive operating system than iOS, and in this case **Android DOES ALLOW the Liip Care sounds even if the smartphone is in silent mode**. In this way, you can silence the smartphone and receive notifications from Liip Care.

We cannot ensure the exact route as it depends on the Android model you have (there are hundreds of different models on the market with different configurations), but it is usually on a route:

Settings> Applications> Liip Care> Give all permissions.

Within the permissions, the smartphone gives you the option to allow sounds from the Liip Care app even when the smartphone is in silent mode.

If you have difficulties to find it, you can google the way to do it or contact the smartphone brand and they will tell you.

- **Low battery notifications:** The notification will be generated when the Liip battery is below 20%
- **Disconnection notifications:** Notifications will be generated between 10 seconds and 1 minute after connection loss

- **Presence Notifications:** This notification depends on the position of the core and sensors.

If the sensors are looking up, as in the image, alarm is usually issued between 10 seconds and one minute.



If the sensor is looking down, as in the image, the sensors can detect molecules and atoms on the surface that Liip sits on, and "mistake" these values for elevated heart rate data. The notification will be sent approximately 3 minutes later, when the presence error is confirmed.



2. Connection troubleshooting, How does Bluetooth work?

Connection problems have 3 possible causes. With the following procedure the problems with connection are solved:

Distance between Liip and the smartphone connected by Bluetooth.

The signal distance is limited in a house, and it is lost if Liip is in a different room from the room where the smartphone is located. The reason is for a safety issue for babies.:

The Liip Smart Monitor wristband is a very sophisticated technological device that integrates all of the necessary components to be aware of the well-being and health of your baby.

The Liip Smart Monitor and the Smartphone connect with each other via Bluetooth. The type of bluetooth that Liip Smart Monitor uses is a secure bluetooth, which does not pass through the human body. Therefore it does not have any danger in the baby. We are the only wearable that

complies these regulations. Liip has passed all of the demanding tests required for products to be used on infants. For this reason, the type of Bluetooth used by Liip is a safe Bluetooth for the baby, **since the emissions are low and do not cross the human body.**

The distance for an open air connection is 30 meters, but if we use Liip Smart Monitor in a house, the connection distance is reduced due to the bluetooth does not pass through the body, and the body acts as a barrier. The signal may even be lost in adjacent rooms that are separated by a wall.

This is why we always recommend leaving a Smartphone or Tablet in the baby's room where you are using the Liip Smart Monitor.

To resolve the Bluetooth technological limitations, Liip has developed an exclusive and unprecedented program in the Wearables market that allows you to link your Liip Smart Monitor to up to 20 Smartphones or Tablets. For this, you only need to have a Smartphone or Tablet in the room where the baby is sleeping. All of the mobile devices that have Liip Care linked to the Liip Smart Monitor receive the information, notifications, and alarms in real time and anywhere in the world, allowing you to be connected to your baby wherever you are thanks to its complete globalization.

Not only can you use Liip at home without losing the connection, but you can also know how your baby is doing when you are at work or if you are traveling.

If the Bluetooth connection is lost, the Liip Smart Monitor will try to recover it. If the Liip Smart Monitor is not able to recover the connection with your Smartphone or Tablet within 2 minutes, it will send out a disconnection alarm. This disconnection alarm must be turned on in the Sounds section of the Liip Care application menu where you must activate the sound option for "Disconnection Notifications".

After this time has passed, the system will continue trying to reconnect.

Some smartphones stop applications that are running in the background, causing disconnections. To avoid this, perform the following steps depending on the model:

iOS

- Connect the Liip Smart Monitor to an energy source and remain close by.
- Reset iPhone/iPad.
- Log out of Liip Care where it is open on all iPhones/iPads that have a login account.
- Uninstall the Liip Care application on the iPhone/iPad.
- Reinstall the Liip Care application. DO NOT ACCESS YET WITH YOUR username and password.
- Got to iPhone/iPad settings.
- Go to Bluetooth settings and check to see that the iPhone/iPad is linked.

- If linked: omit device, turn Bluetooth off and on. Access the Liip Care application by entering your user name and password, wait 1 minute for a response. When the linking screen appears, wait for the battery symbol to appear and activate sensors.
- If it is not linked: access the App Liip Care by entering your user name and password, wait 1 minute for a response, When the linking screen appears, wait for the battery symbol to appear and activate sensors.
- Open the App Liip Care and wait for 1-2 minutes for it to connect.

On the other hand, a recommendation that improves the communication of smartphones is to "allow all access" to Liip Care App:

iOS path: Settings > Screen time > Always allowed > Include Liip Care as allowed



ANDROID

- Connect Liip Smart Monitor to the power supply and stay close to it.
- Log out of Liip Care where it is open on all smartphones/tablets that have a login account.
- Reset smartphone/tablet.
- Activate location/GPS on the smartphone/tablet.
- Go to smartphone/tablet settings.

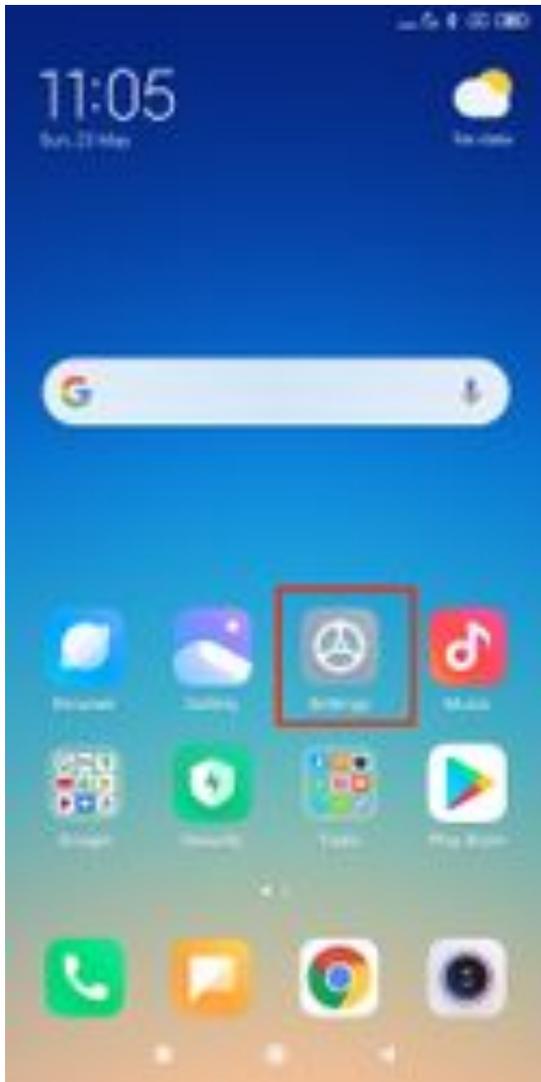
- Go to Bluetooth Settings and check to see that the smartphone/tablet is linked. If it is, omit link.
- Turn off Bluetooth and turn it on again.
- Link the device again.
- Once linked, uninstall the Liip Care application and reinstall it: be sure to give the app permissions for Location, Background Running, and any other permissions requested. Make sure you have GPS location enabled on your smartphone/tablet (some manufacturers need this option enabled for Bluetooth to detect the Liip Smart Monitor).

Once you have finished this process, if your Smartphone or Tablet is a Xiaomi, Huawei or Samsung model, perform the following steps to properly configure the Liip Care app on your smartphones

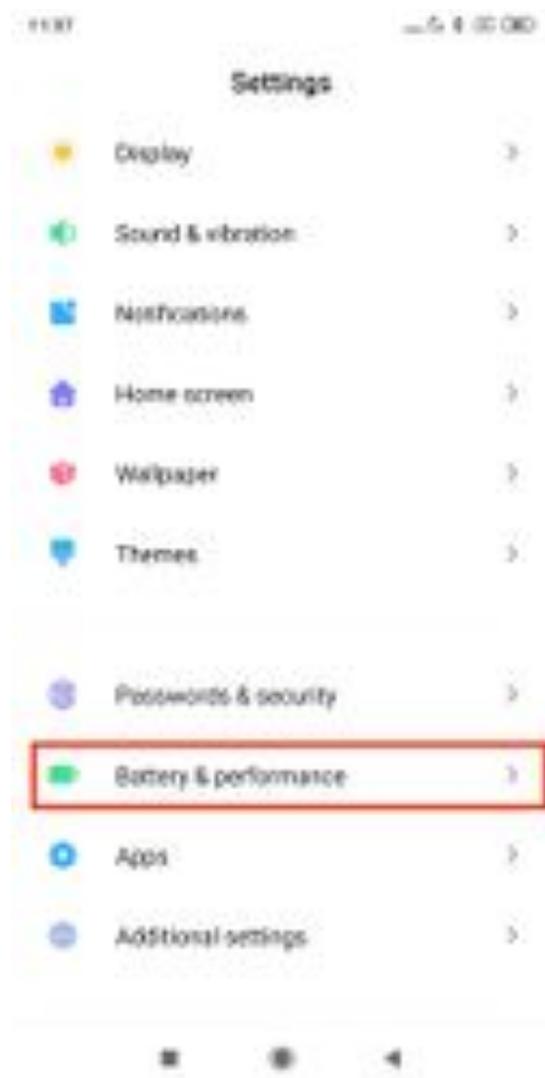
XIAOMI

No restrictions. Battery doesn't restrict app's activity.

1.Setting



2. Select Battery and performance



3. Select Battery



4. Select App battery saver



5. Search and select Liip Care



6. Select No restrictions. Battery saver doesn't restrict app's activity

11:59

— 54% 10:00



Liip Care

Background settings

No restrictions

Battery saver doesn't restrict app's activity

Battery saver (recommended)

Restricts app's activity to keep important processes going.

Battery saver will restrict important apps selectively.

Restrict background apps

Some features (e.g., push notifications) may be affected, but apps won't be closed.

Restrict background activity

Apps will be closed to save power.

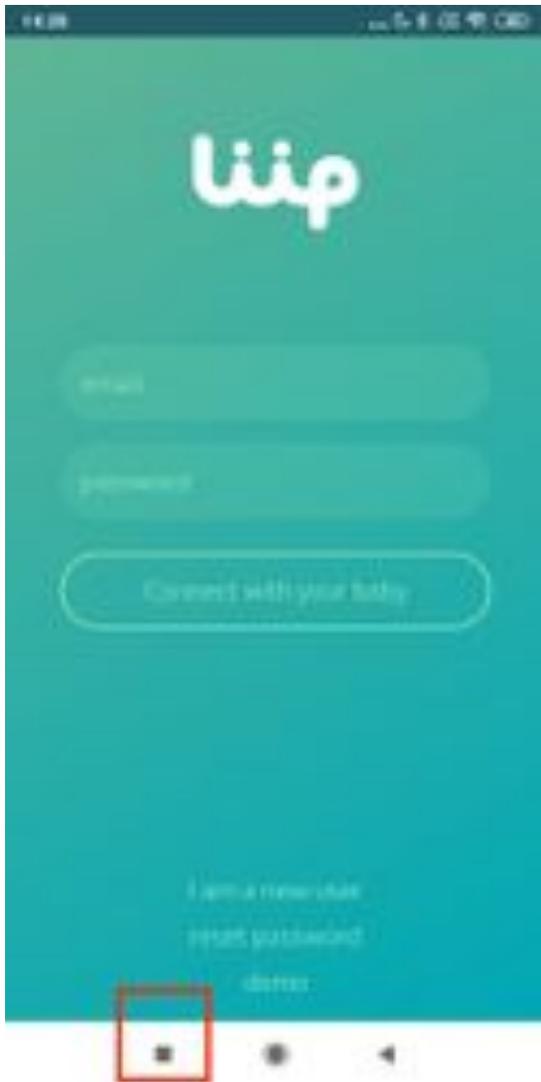


Permissions

1. Select Liip Care.



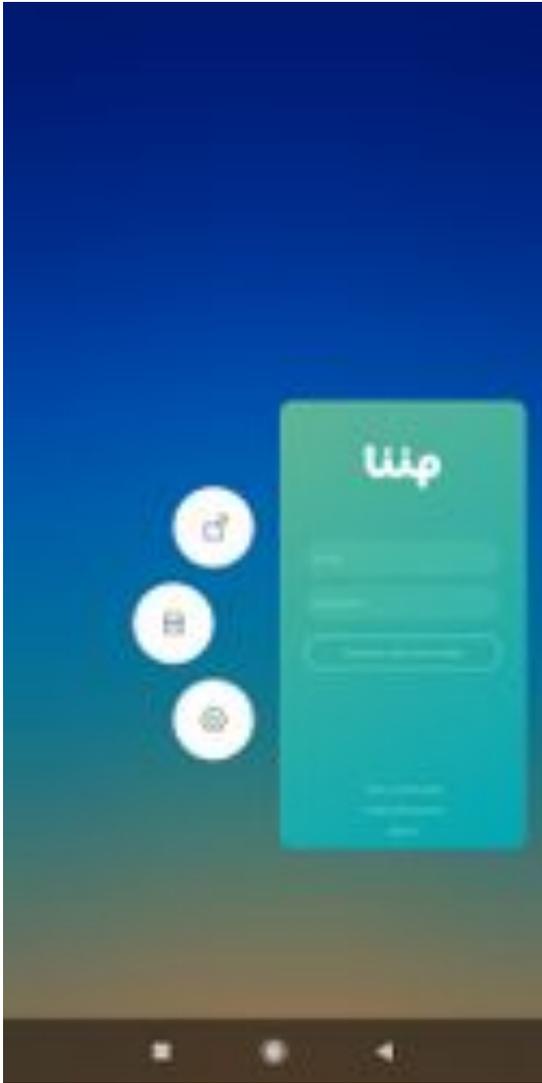
2. Do not login. DO NOT ENTER with username and password. **Press the square symbol at the bottom left.**



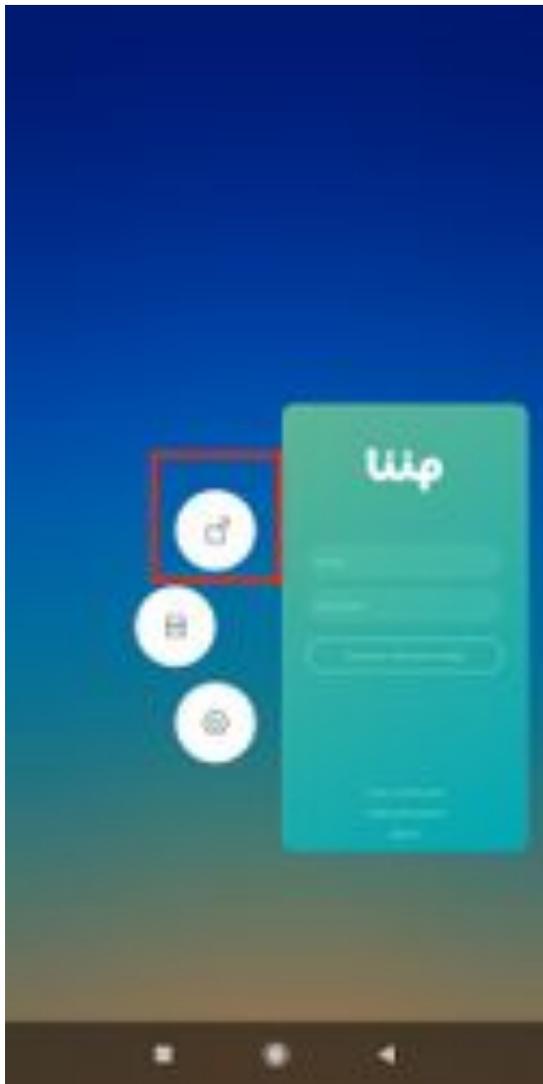
3. The Liip Care image, which has just been selected, will appear.



4. Press and hold the Liip Care app image until three symbols appear on the screen.



5. Press the padlock to lock the Liip Care app.



6. Liip Care must appear with the padlock closed.

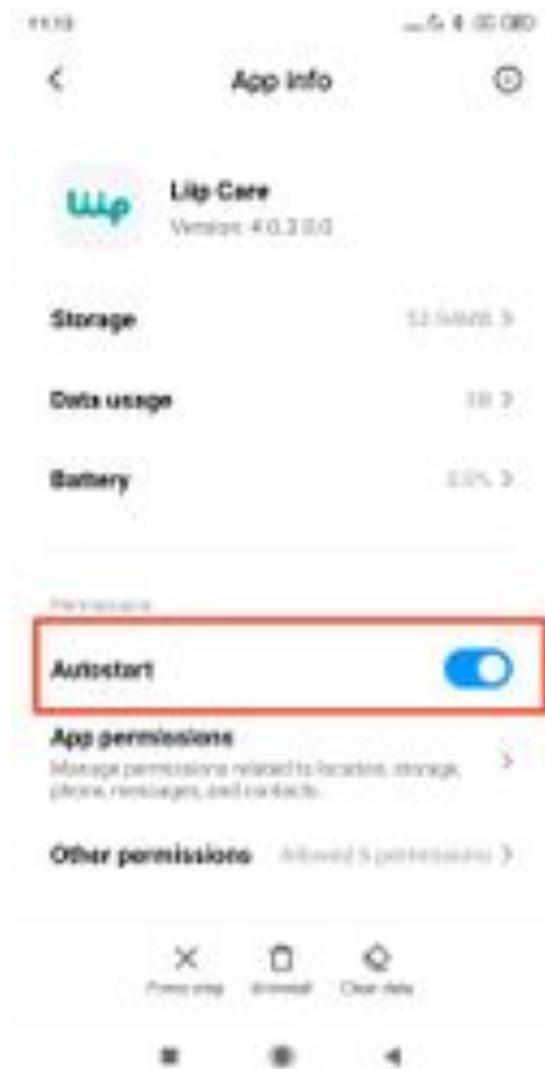


7. Press and hold the Liip Care app image until three symbols appear on the screen again.

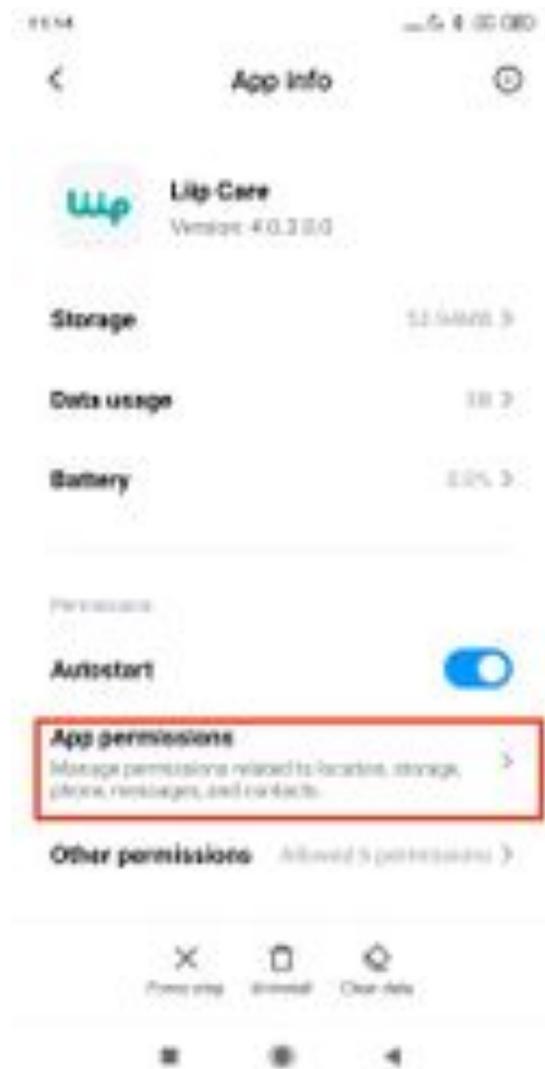
8. Press the setting symbol.



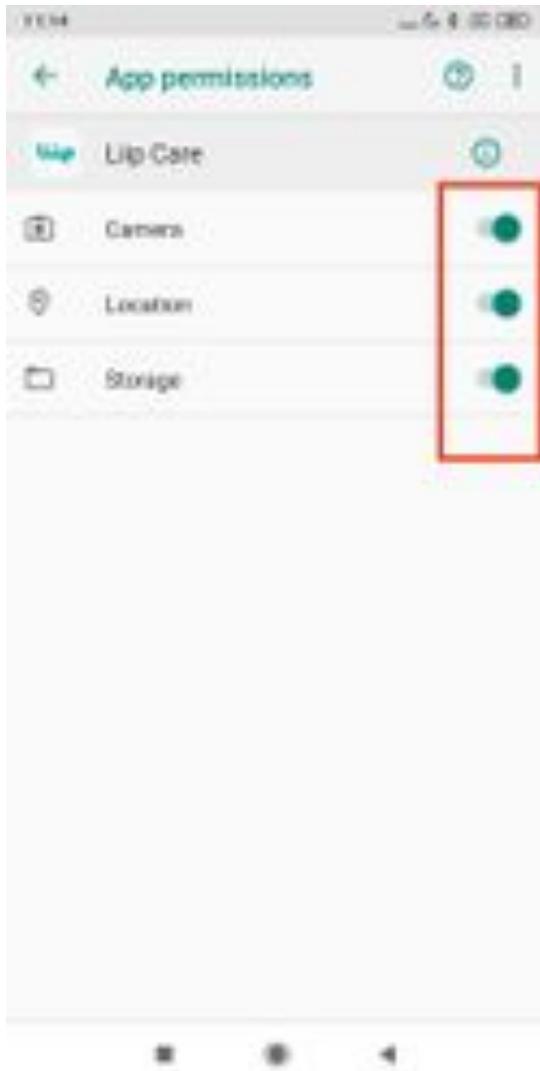
9. Activate “Autostart”.



10. Select App permissions.



11. Activate all permissions



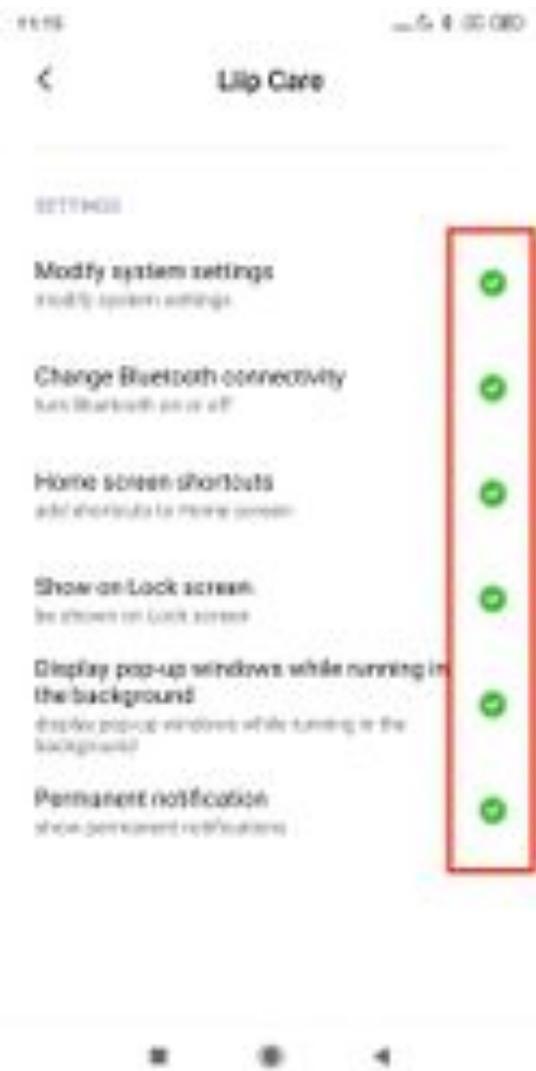
12. Back to App information.



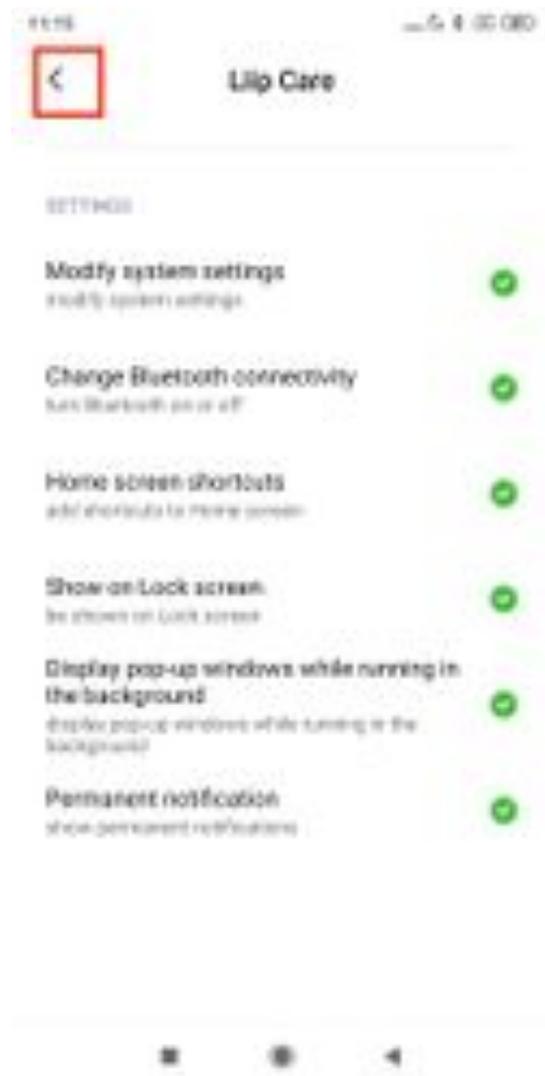
13. Click Other permissions.



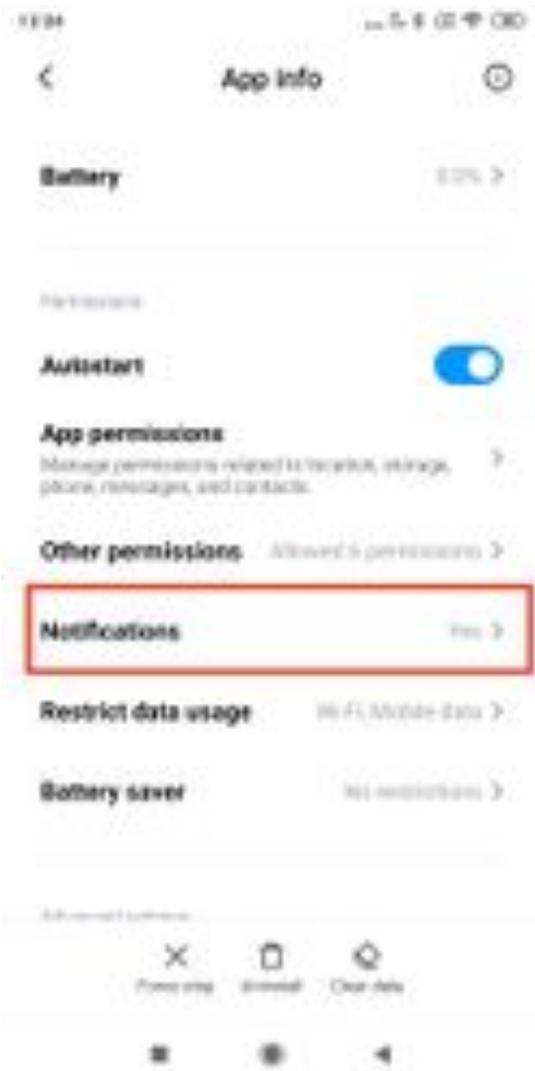
14. Allow all.



15. Back to App Info.



16. Select Notifications.



17. Press Show notifications and allow all notifications.

11:18

— 5 4 30 080



Lip Care

Show notifications



Show app icon badges



Floating notifications

Allow floating notifications



Lock screen notifications

Allow notifications on the Lock screen



Allow sound



Allow vibration



Allow using LED light



Notification categories

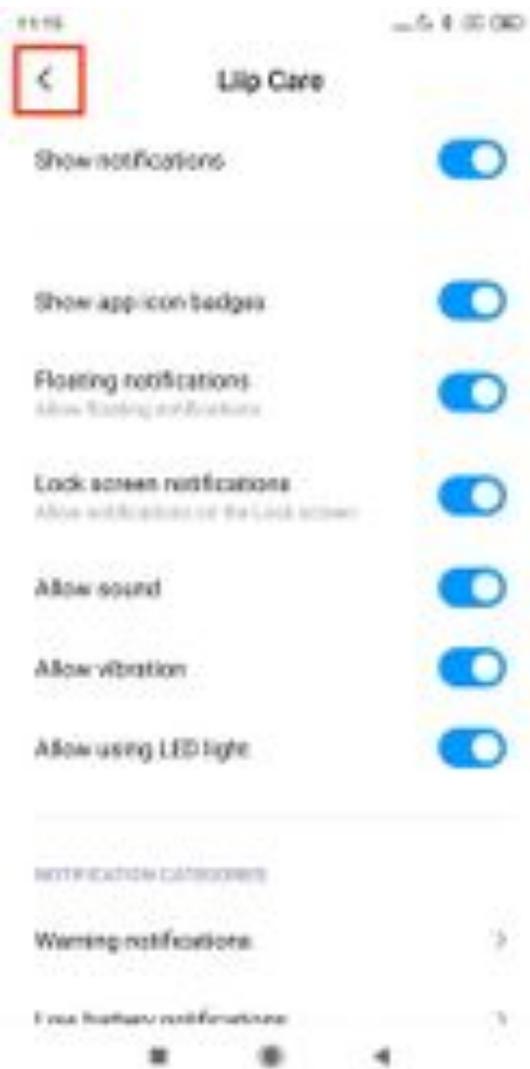
Warning notifications



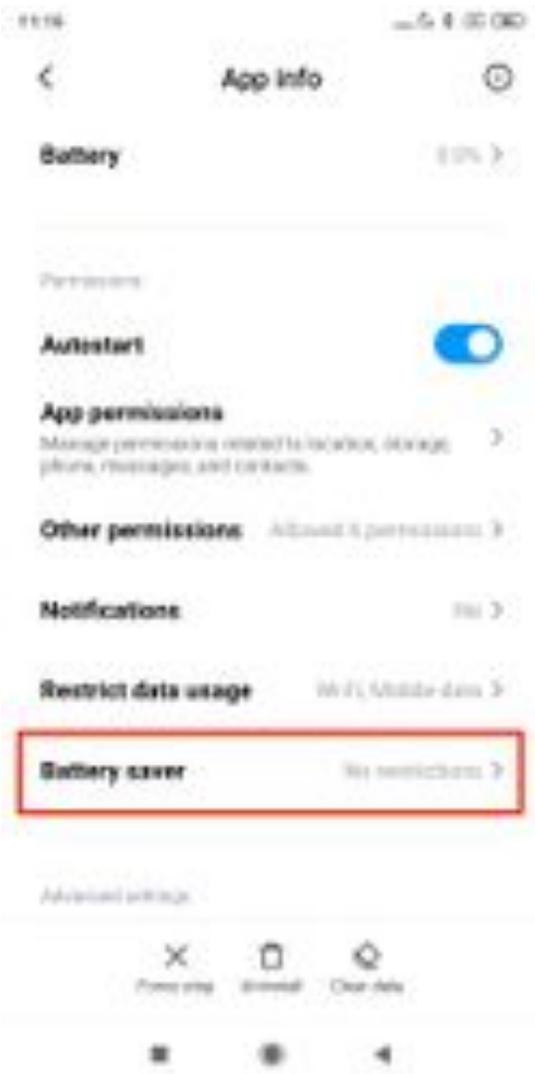
Focus features notifications



18. Back to App info.



19. Select Battery saver.



20. Press No restrictions. Battery saver doesn't restrict app's activity.

11:16

— 54% 10:00



Lip Care

Background activity

No restrictions

Battery saver doesn't restrict app's activity

Battery saver (recommended)

Restrict app's background activity to keep important processes going.

Battery saver will restrict important apps selectively.

Restrict background apps

Some features (e.g., push notifications) may be affected, but apps won't be closed.

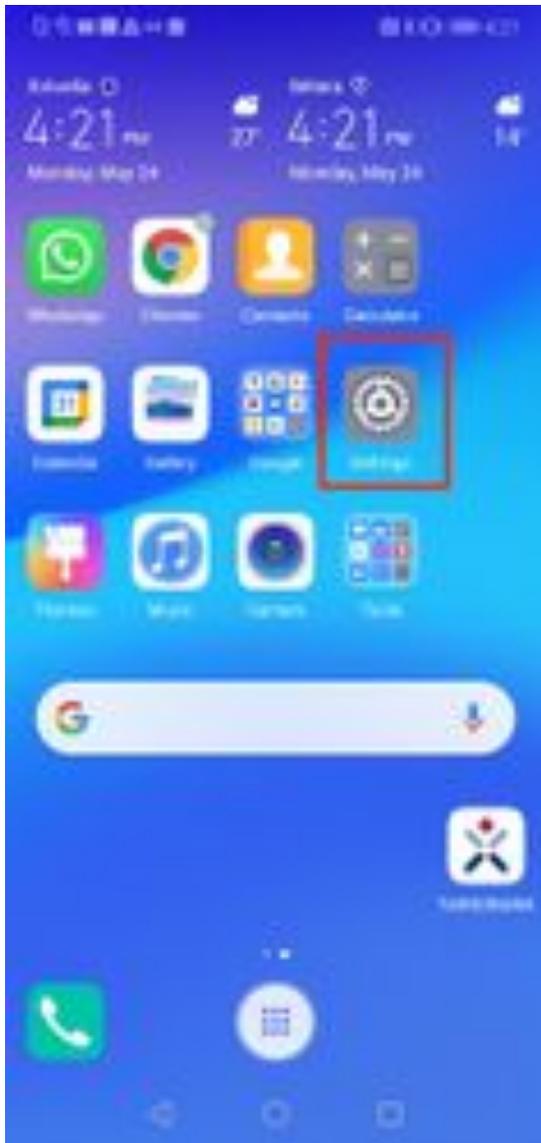
Restrict background activity

Apps will be closed to save power.

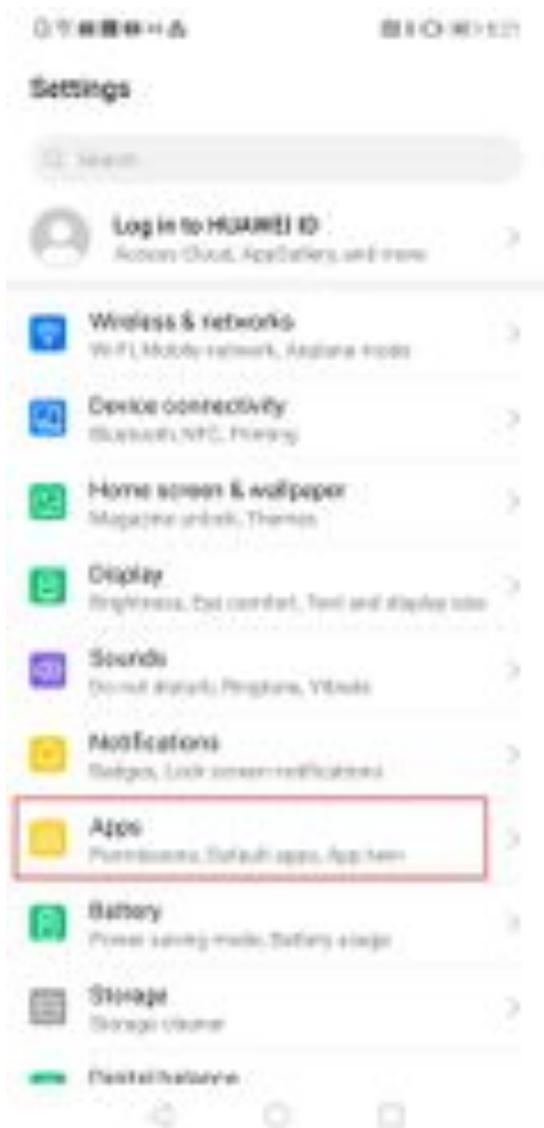


Huawei

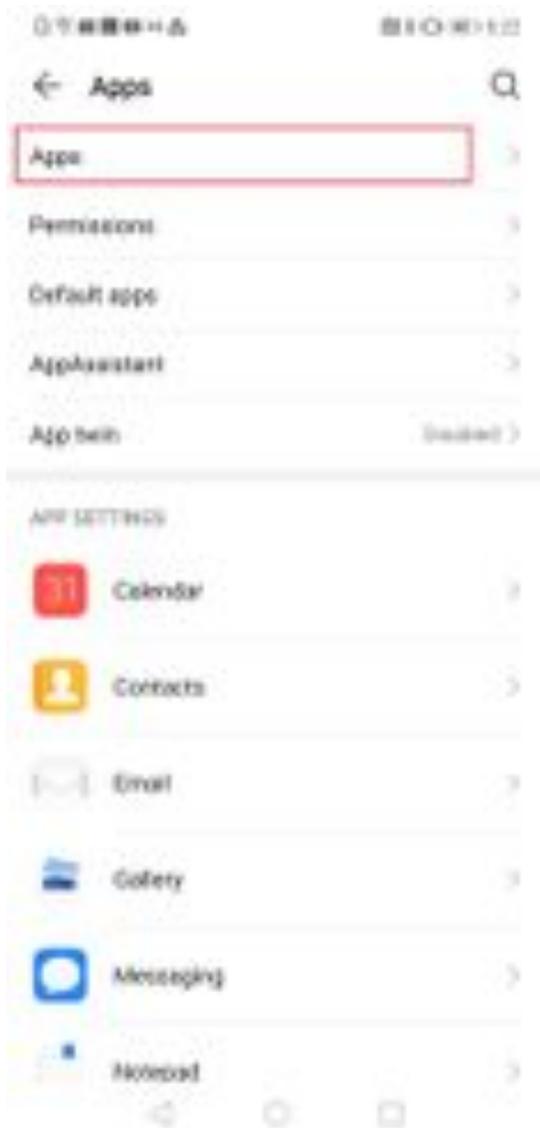
1. Select Settings.



2. Select Apps



3. Select Apps



4. Search and select Liip Care



5. Select Notifications.



6. Allow notifications.



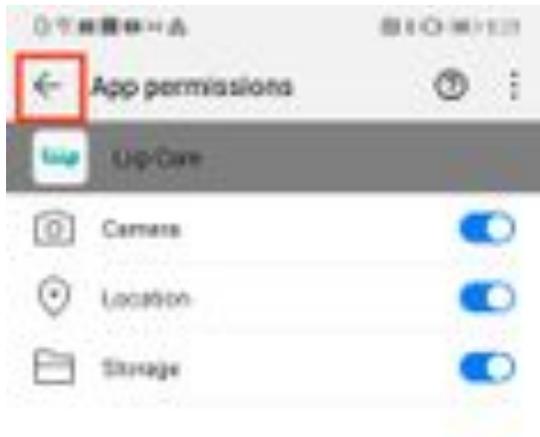
7. Come back to App info and select Permissions.



8. App permissions: Allow all Permissions



9. Come back to App info menu.



10. Select power usage details.



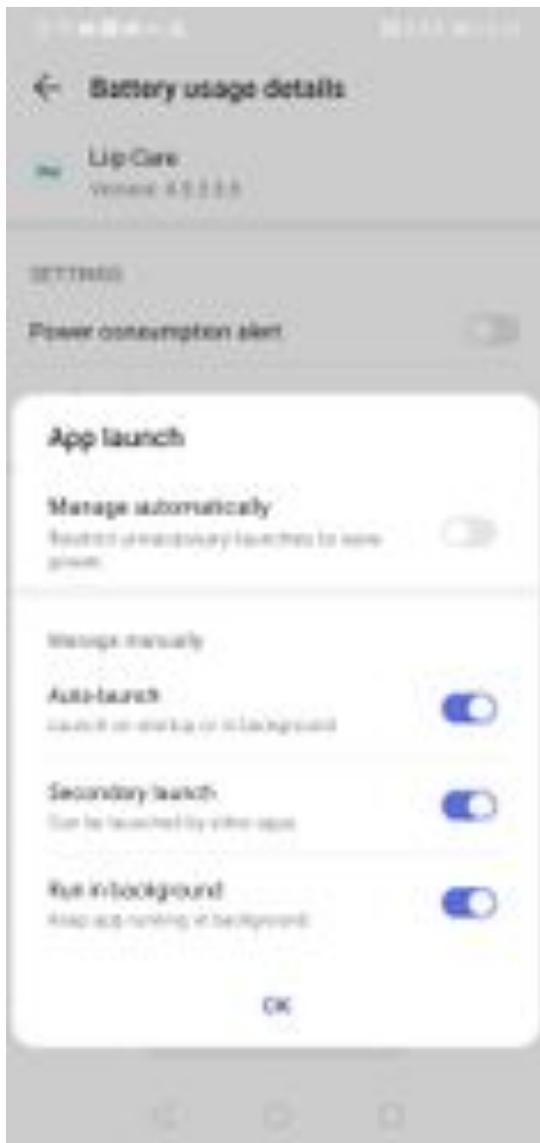
11. **Turn off** power consumption alert.



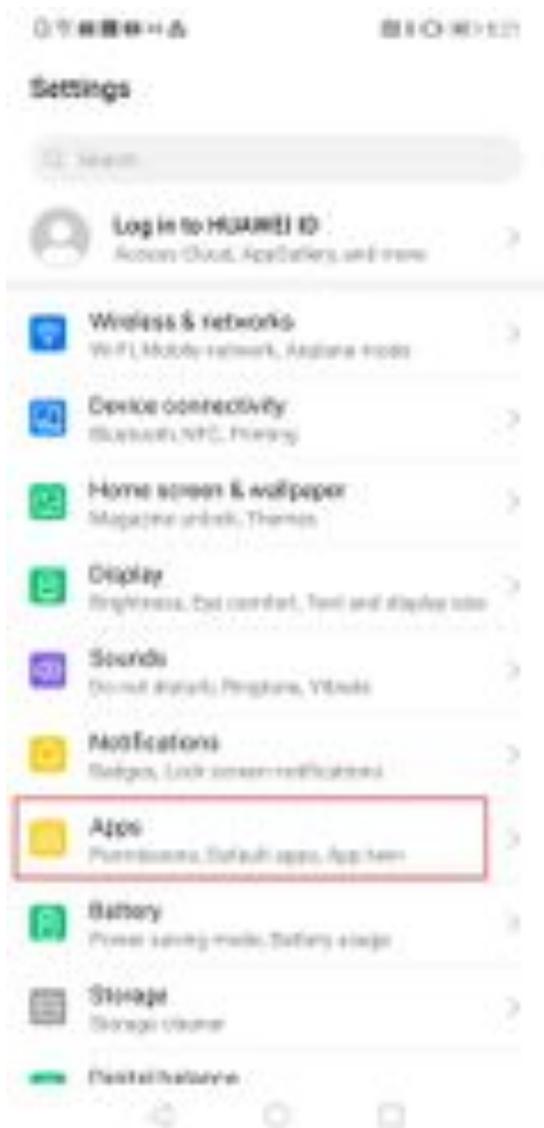
12. Select App launch.



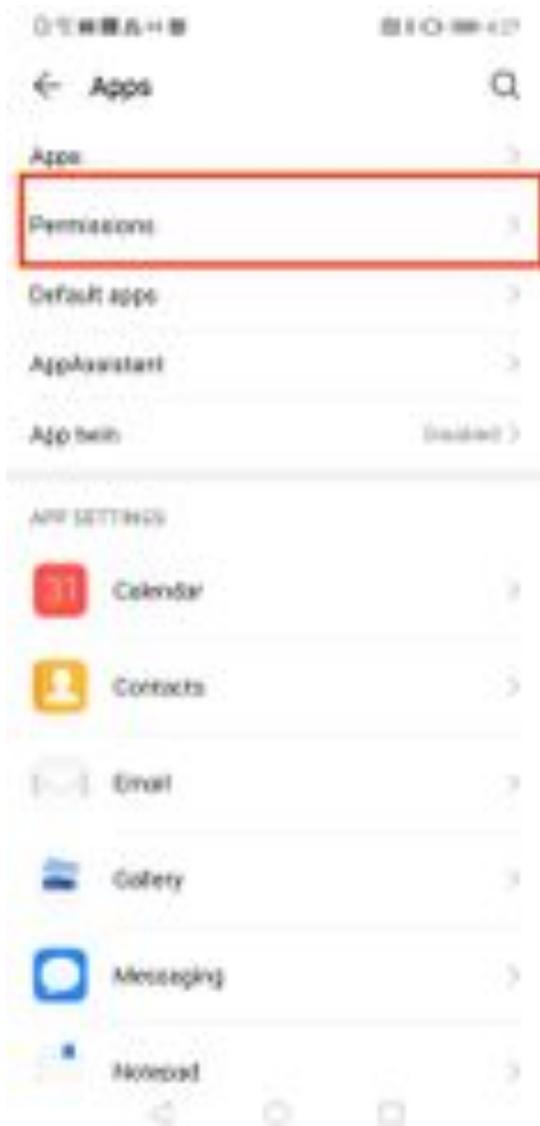
13. Disable manage automatically. Activat the rest of the options.



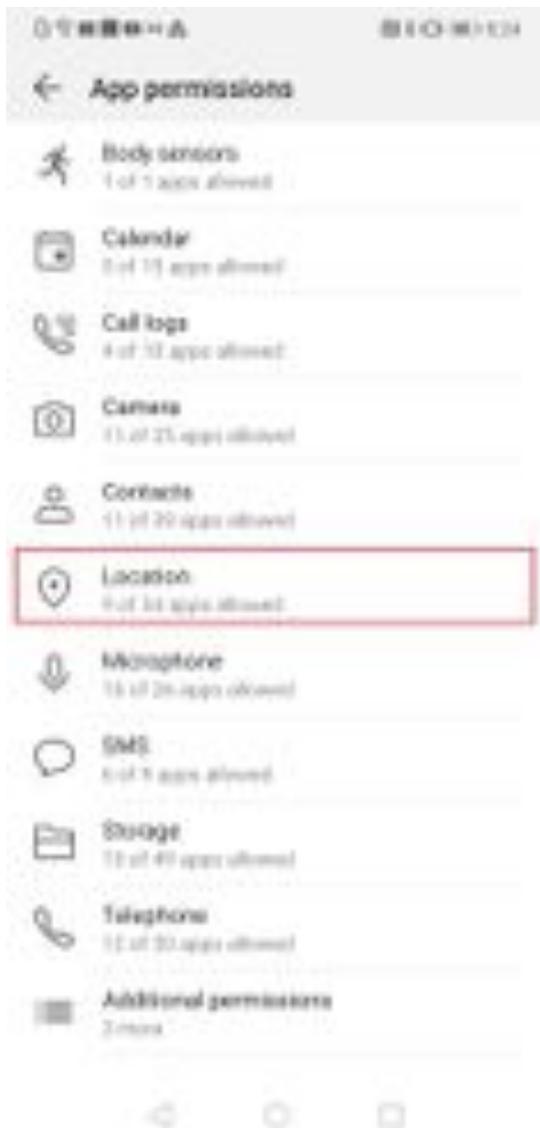
14. Come back to **settings** and press Apps.



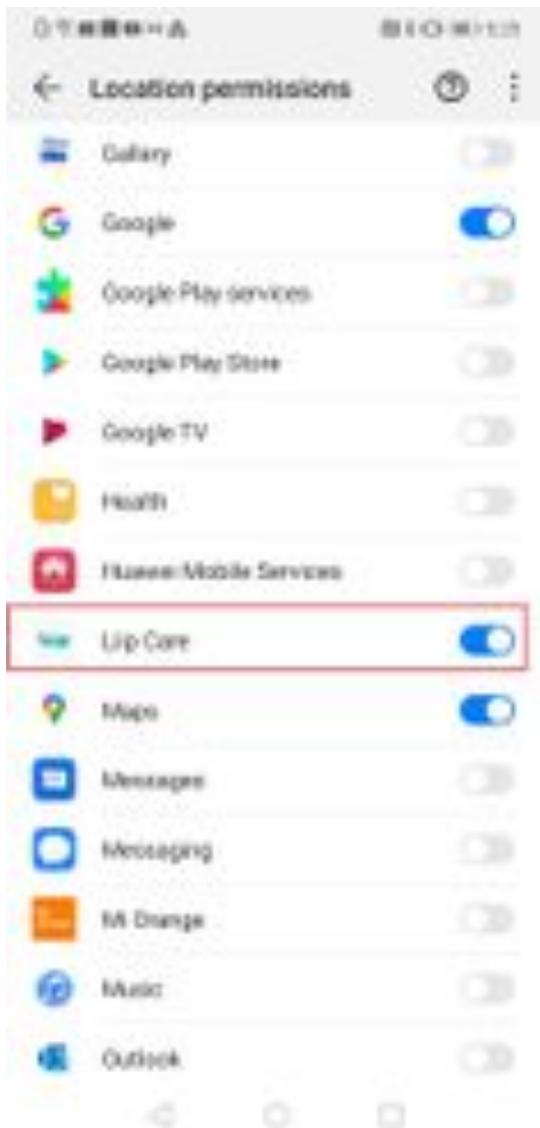
15. Select Permissions.



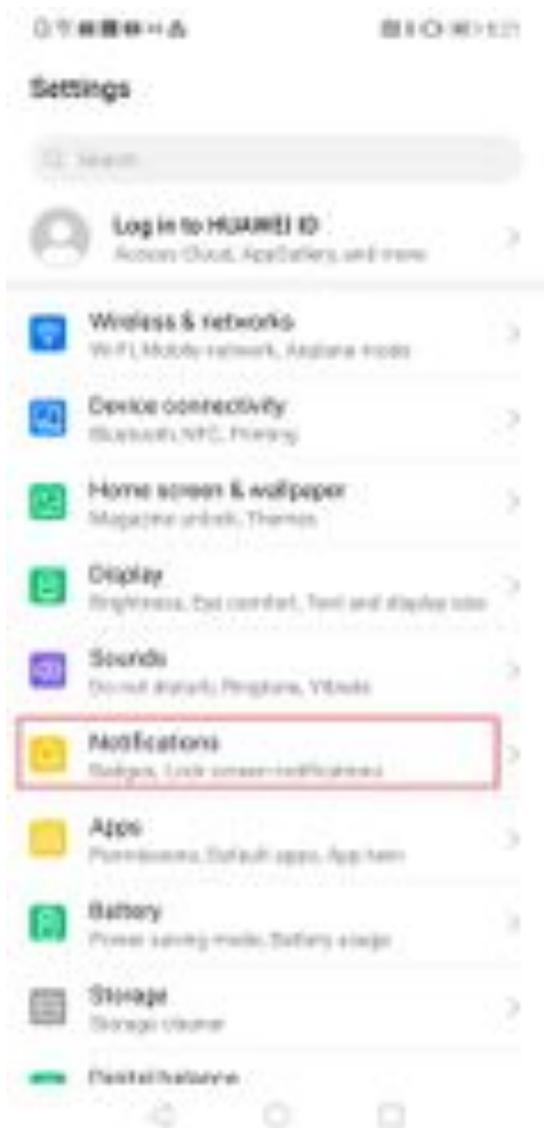
16. Select Location.



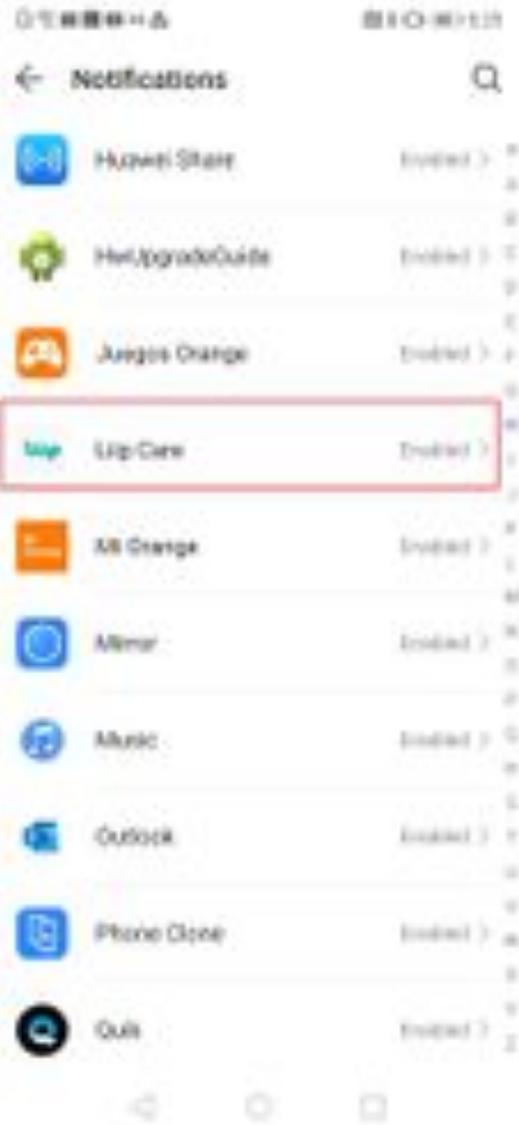
17. Enabled Liip Care.



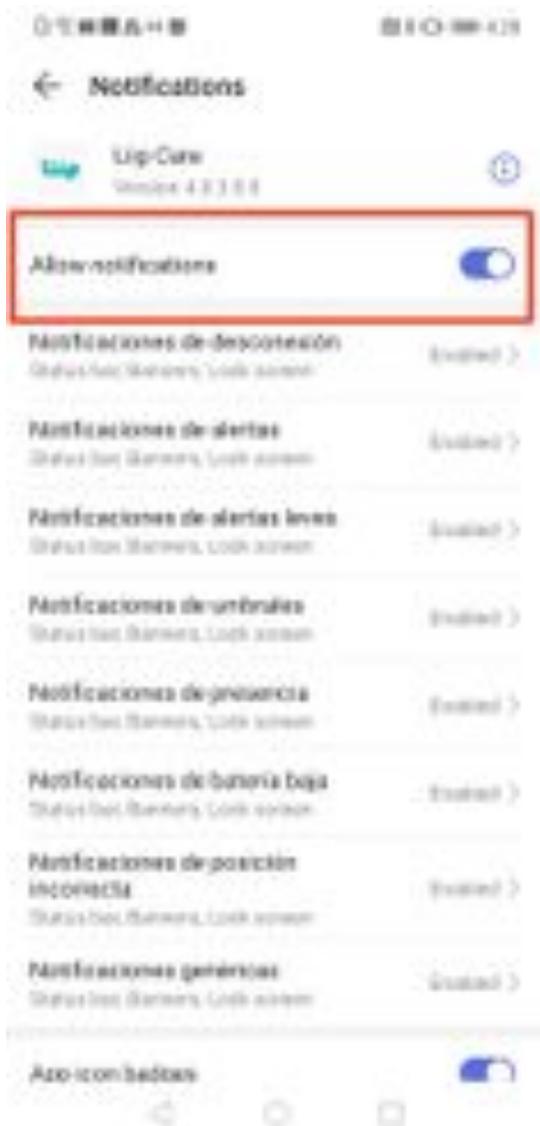
18. Come back to setting. Select Notifications.



19. Search Liip Care.



20. Enabled allow notifications



21. Come back to Settings and select Battery



Settings

Search



Log in to HUAWEI ID

Access Cloud, AppGallery, and more



Wireless & networks

Wi-Fi, Mobile network, Airplane mode



Device connectivity

Bluetooth, NFC, Printing



Home screen & wallpaper

Magazine unlock, Themes



Display

Brightness, Eye comfort, Text and display size



22. Select App Launch.



4:29

← Battery



100%

12 h 17 min remaining

OPTIMIZE BATTERY USAGE

Power Saving mode

36 h 13 min remaining



Ultra Power Saving mode

162 h 40 min remaining



App launch

Manage launches and apps running in the background.



23. **Turn off** Liip Care manage manually. Make sure it is disabled.



100% 4:30

← App launch



Search

Manage how different apps launch and run on your device. When Manage automatically is enabled, some app launches will be prevented based on scenario to save battery power.

Manage all automatically



AppGallery

Manage manually



Liip Care

Manage manually



Quik

Manage manually



ACCIONA Mobility

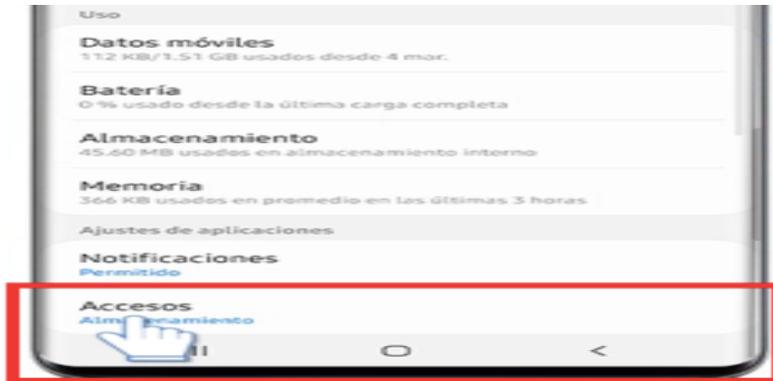


Samsung

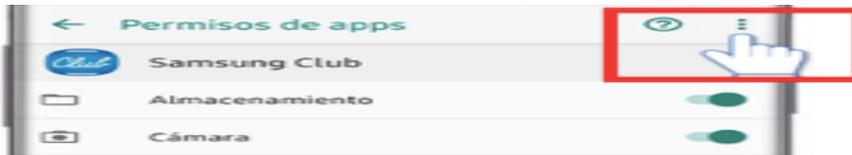
1. Enter Settings
2. Press Apps / Applications
3. Search and select Liip Care
4. Press Battery
5. Allow background activity



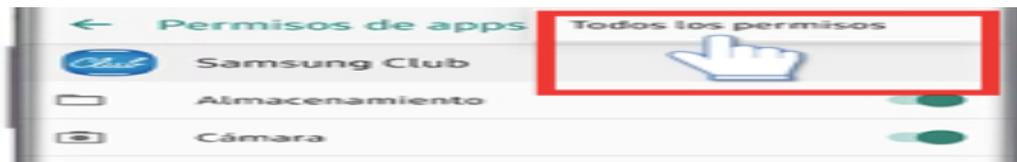
6. Return to Settings.
7. Press Applications / Apps.
8. Search and select Liip Care.
9. Press Notifications.
10. Allow all notifications.
11. Return to Settings.
12. Press Apps.
13. Search and select Liip Care.
14. Press Access.



15. Touch the three dots in the upper right.



16. Allow all permissions.



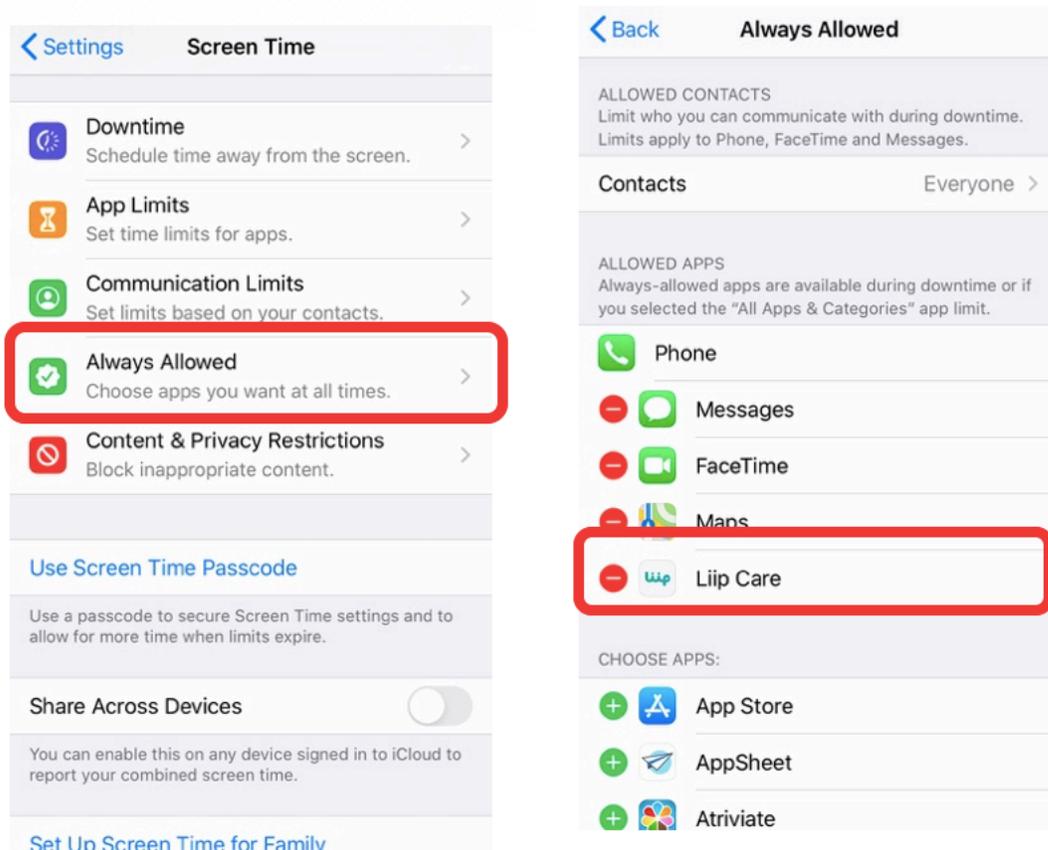
17. Activate Location.

iOS

- Connect the Liip Smart Monitor to an energy source and remain close by.
- Reset iPhone/iPad.
- Log out of Liip Care where it is open on all iPhones/iPads that have a login account.
- Uninstall the Liip Care application on the iPhone/iPad.
- Reinstall the Liip Care application. DO NOT ACCESS YET WITH YOUR username and password.
- Got to iPhone/iPad settings.
- Go to Bluetooth settings and check to see that the iPhone/iPad is linked.
- If linked: omit device, turn Bluetooth off and on. Access the Liip Care application by entering your user name and password, wait 1 minute for a response. When the linking screen appears, wait for the battery symbol to appear and activate sensors.
- If it is not linked: access the App Liip Care by entering your user name and password, wait 1 minute for a response, When the linking screen appears, wait for the battery symbol to appear and activate sensors.
- Open the App Liip Care and wait for 1-2 minutes for it to connect.

On the other hand, a recommendation that improves the communication of smartphones is to "allow all access" to Liip Care App:

iOS path: Settings > Screen time > Always allowed > Include Liip Care as allowed.



3. Link multiple smartphones to Liip

Liip Smart Monitor offers the possibility of linking to as many phones or tablets as you need. (maximum 20 devices)

The phones/tablets must be close and Liip Smart Monitor charging.

The first phone/tablet has been linked when you created the user, to link the next:

1. Close the session on the first phone/tablet.
2. Download the app and access with the same email and password.
3. Log in to the first phone/tablet, this will be linked to Liip Smart Monitor automatically.



Now, the phone/tablet that receives the information in real time will be the closest one (primary) and will be the one that sends the information to the others phones/tablets (secondary) in real time.

This reduces the possibility of connection losses. In case of losing the connection, Liip Care continues to collect data.

The advantage of offering the possibility of linking Liip Smart Monitor with multiple smartphones, is that the secondary can receive data anywhere.

All the smartphone / tablet that you have linked to Liip Smart Monitor can be the primary device, as long as they are the one closest to the Liip Smart Monitor unit, and therefore, the one connected by Bluetooth.

4. What should I know about the Liip Smart Monitor battery?

It is recommended to charge the battery of your Liip Smart Monitor during one hour, **always before to use it.**

If you want to achieve the maximum duration of use (13 hours), make a full charge (1 hour) just before you start using it.

The battery incorporated in Liip's electronic system is 25 times smaller than the battery of a Smartphone. The Liip battery is continually conducting complex data monitorization. When you use a Smartphone to make various calls, you can see that the life of its battery is reduced to a few hours.

We provide you with this comparison to show you the varying limits of battery efficiency provided by technology. Liip has achieved a breakthrough in efficiency in this field. After charging the battery for just one hour, the Liip battery allows for 13 hours of constant monitorization, the equivalent of the baby's sleep cycle.

That said, even when you close the session, the battery is discharged, which is the reason why it is completely empty by nighttime even if you have charged in the morning. In order to extend the life of the battery and to make good use of it, you should always systematically charge your

Liip Smart Monitor for one hour before you put it on your baby (if you are going to use it during the night). If you are going to use it for a short while during the afternoon, a 15-minute charging session will ensure various hours of use.

Liip Smart Monitor can be charged as many times as you want, depending on your mode of use.

5. The App Liip Care has been searching for several minutes and does not connect.

If the reason is the closest smartphone/tablet to Liip Smart Monitor is out of Bluetooth range:

The Liip Smart Monitor and the Smartphone connect with each other via Bluetooth. The type of bluetooth that Liip Smart Monitor uses is a secure bluetooth, which does not pass through the human body. Therefore it does not have any danger in the baby. We are the only wearable that complies these regulations. Liip has passed all of the demanding tests required for products to be used on infants. For this reason, the type of Bluetooth used by Liip is a safe Bluetooth for the baby, **since the emissions are low and do not cross the human body.**

The distance for an open air connection is 30 meters, but if we use Liip Smart Monitor in a house, the connection distance is reduced due to the bluetooth does not pass through the body, and the body acts as a barrier. The signal may even be lost in adjacent rooms that are separated by a wall.

This is why we always recommend leaving a Smartphone or Tablet in the baby's room where you are using the Liip Smart Monitor.

To resolve the Bluetooth technological limitations, Liip has developed an exclusive and unprecedented program in the Wearables market that allows you to link your Liip Smart Monitor to up to 20 Smartphones or Tablets. For this, you only need to have a Smartphone or Tablet in the room where the baby is sleeping. All of the mobile devices that have Liip Care linked to the Liip Smart Monitor receive the information, notifications, and alarms in real time and anywhere in the world, allowing you to be connected to your baby wherever you are thanks to its complete globalization.

This way you will know how your baby is without limits and wherever you are in the world. To link several smartphones/tablets to your Liip Smart Monitor:

- a) Log off on the first smartphone/tablet from where you registered the account.
- b) Download the Liip Care app in the second smartphone/tablet and access with the same email and password and enter the linking PIN.

c) Log in again on the first smartphone/tablet that will begin to receive data automatically.

d) You can repeat this process in up to 20 Smartphones/tablets.

If the Liip Care app keeps searching and does not connect even though it is next to the smartphone/tablet, the protocol to follow is:

ANDROID

- Connect Liip Smart Monitor to the power supply and stay close to it.
- Log out of Liip Care where it is open on all smartphones/tablets that have a login account.
- Reset smartphone/tablet.
- Activate location/GPS on the smartphone/tablet.
- Go to smartphone/tablet settings.
- Go to Bluetooth Settings and check to see that the smartphone/tablet is linked. If it is, omit link.
- Turn off Bluetooth and turn it on again.
- Link the device again.
- Once linked, uninstall the Liip Care application and reinstall it: be sure to give the app permissions for Location, Background Running, and any other permissions requested. Make sure you have GPS location enabled on your smartphone/tablet (some manufacturers need this option enabled for Bluetooth to detect the Liip Smart Monitor).

If your Smartphone or Tablet is a Xiaomi, Huawei or Samsung model, remember to follow the configuration processes in the section [2 Connection troubleshooting, How does Bluetooth work? ANDROID](#).

Options:

[Xiaomi](#)

[Huawei](#)

[Samsung](#)

iOS

- Connect the Liip Smart Monitor to an energy source and remain close by.
- Reset iPhone/iPad.
- Log out of Liip Care where it is open on all iPhones/iPads that have a login account.
- Uninstall the Liip Care application on the iPhone/iPad.

- Reinstall the Liip Care application. DO NOT ACCESS YET WITH YOUR username and password.
- Got to iPhone/iPad settings.
- Go to Bluetooth settings and check to see that the iPhone/iPad is linked.
- If linked: omit device, turn Bluetooth off and on. Access the Liip Care application by entering your user name and password, wait 1 minute for a response. When the linking screen appears, wait for the battery symbol to appear and activate sensors.
- If it is not linked: access the App Liip Care by entering your user name and password, wait 1 minute for a response, When the linking screen appears, wait for the battery symbol to appear and activate sensors.
- Open the App Liip Care and wait for 1-2 minutes for it to connect.

6. What should I do if "Calculating data" appears?

When you put Liip Smart Monitor to your baby, the first message you will receive in Liip Care will be "Calculating data". This message will be maintained for approximately a few minutes, while the system adapts to the baby's vital signs. During this period, at least one of the constants may appear without any specific value.

If after the message "calculating data" appears the message "incorrect position", the reasons could be:

- When the baby is more agitated than usual.
- The baby is playing with Liip Smart Monitor.
- Liip is not correctly placed. Check the section ["How to put Liip Smart Monitor to your baby"](#).

7. Can I see my baby's data history?

Liip Smart Monitor stores the registered data so you can consult them in the Liip Care app.

Liip Care app records the data from the last week to the last hour, also the historical notifications and alerts.

To access the data history, go to the lower section of the application where the data about each vital constant monitored appears. Pressing the blue circle you can see the evolution of each constant and navigate within a chart. The evolution can be "1 hour", "1 day" and "1 week".

To see the history of notifications and alerts you can access from the main menu in the option "Notifications".

Liip makes available to all users one of the world's most advanced data storage platforms, **Connected Care**, for use on PCs and tablets.

Connected Care is a platform for PC and tablet that comfortably allows you to check and visualize in detail the monitoring of your baby's well-being.

Unlike the graphs in the Liip Care app, which only shows the last week of recordings, Connected Care offers you the possibility of seeing the history of vital constants from the last 12 months, entering notifications and observing in detail the changes generated by each notification.

8. Access Connected Care platform

Liip makes the connected care platform available to users through the following link: [Connected Care](#).

Connected Care platform and the Liip Care App have the same access, so you just have to enter on both platform the same username and password.

Liip Smart Monitor almacena los datos registrados para que puedas consultarlos mediante la app Liip Care.

La aplicación Liip Care registra los datos de la última semana a la última hora, además del histórico de notificaciones y alertas.

Para acceder al histórico de datos, ve a la sección inferior de la aplicación donde aparecen los datos sobre cada constante vital monitorizada. Pulsando el círculo azul de cada una puedes ver la evolución de cada constante y navegar dentro de un gráfico. La evolución puede ser de "1 hora", "1 día" y "1 semana".

Para ver el histórico de notificaciones y alertas puedes acceder desde el menú principal en la opción "Notificaciones".

Para visualizar los datos y notificaciones de forma detallada, Liip pone a disposición de los usuarios la **plataforma Connected Care**, para uso en PC y Tablet.

Connected Care es una aplicación para escritorio y tablet que de forma cómoda te permite hacer un seguimiento detallado y visual sobre el bienestar de tu bebé.

A diferencia de las gráficas de la aplicación Liip Care limitados a una semana de registros, Connected Care te ofrece la posibilidad de ver el histórico de las constantes vitales de los últimos 12 meses, entrar en las notificaciones y observar en detalle los cambios que han generado cada notificación.

Access Connected Care platform

Connected Care platform and the Liip Care App have the same access, so you just have to enter on both platform the same username and password.



Connected Care

E-mail

Password

I'm not a robot

[Reset password](#)

[Contact](#)

Data history

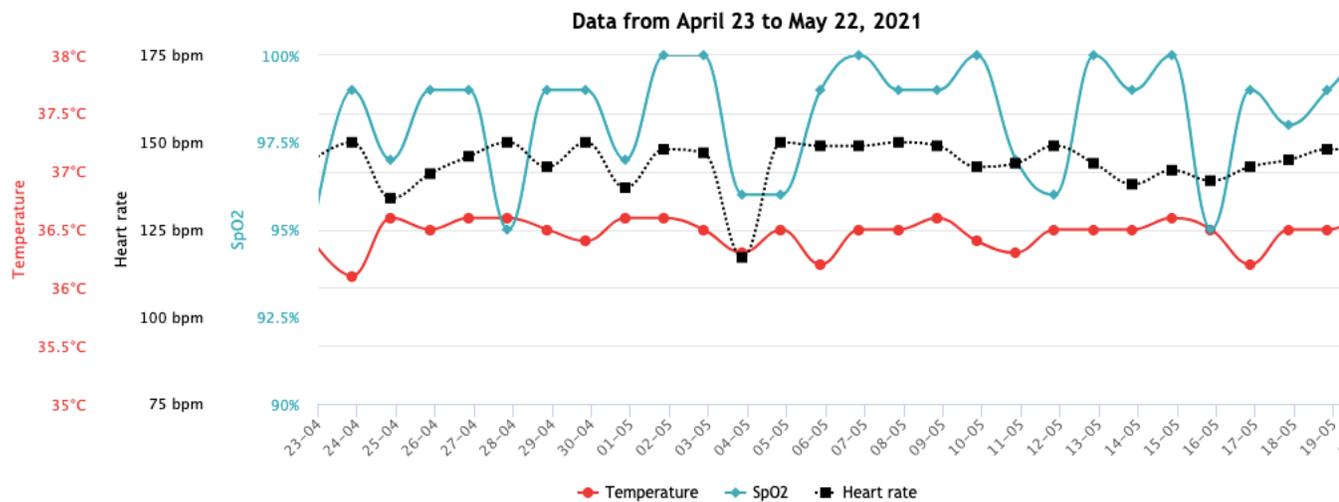
Connected Care allows you to visualize all the data for several months through graphs. Connected Care provides much more information than the smartphone App (Liip Care) like the evolution of each parameter collected, the states through which the babies or children have passed by, etc. The App allows parents to monitor and analyze the historic values of the parameters in a more detailed way than in the mobile App.



David Garcia

Age: 2 years
Birthdate: 01/07/2018
Gender: boy

1 hour 24 hours 30 days 1 year notifications



Connected Care allow you to access the notifications detected by Liip Smart Monitor and know in detail the reasons that have generated each notification.

9. Liip reliability and safety.

A team of pediatricians of the Hospital Quirón Salud Valencia has carried out a comparative study with the reference system in monitoring vital signs, the hospital monitor, from newborn babies to children up to the age of 7.

Liip Smart Monitor has been compared with the Gold Standard in hospital monitoring "Masimo" and the study has shown a concordance higher than 98%. Liip stabilizes the movement signal more efficiently than hospital monitor and obtains a very similar measurement in stable conditions.

Liip has passed the demanding regulations to use it in babies and children, as demonstrated by the electromagnetic emission certifications, lower than the minimum allowed. Their bracelets are hypoallergenic, washable and protect the skin of the baby and the child. Also, Liip includes 3 sizes that adapt to their growth.

10. The temperature that Liip tells me seems low

The medical community has been warning for years about the miss use that society makes of thermometers. This incorrect use is mostly reflected in parents with babies and young children. This incorrect use begins with the absence of tools for parents in the temperature log.

The first error is to take specific temperature measurements.

The precision in the recording of the onset of a fever lies in taking constant measurements that allow us to know how the temperature is evolving.

This is the first advantage that Liip provides because, in a comfortable way for parents and the baby itself, it allows you to measure the temperature for hours. The next advantage is that Liip allows you to follow up in case of fever because the data is stored in graphs so you can show them to the pediatrician.

Finally, it has shown a reduction in unnecessary emergency visits by parents due to erroneous fever records.

The temperature data measured at the same time in the mouth, forehead, ear, armpit, anus or ankle is completely different, and are determined by the three types of temperature that exist in the body.

It is very important to know that the temperature recorded by the Liip Smart Monitor bracelet is the distal peripheral temperature.

The distal peripheral temperature is slightly lower than the one normally measured with a thermometer. This is absolutely normal.

It should be taken into account that there are three temperatures in the body: There are three types of temperature in our body:

- **Central temperature (TC).** It can only be measured inside the organism (inside the esophagus, bladder ...) being a very difficult temperature to register.
- **Proximal peripheral temperature (TPP).** It is measured in the armpit or in the mouth. It is the one registered by conventional thermometers.
- **Distal peripheral temperature (TDP).** It is measured in the outer members. It is the one that detects Liip and transmits it in the form of degrees Celsius (°C). In normal conditions

it is always lower than the proximal peripheral temperature. It is usually between 34 °C and 37 °C.

Why does this occur?

The human being is a homeostatic organism, that is, we have the ability to maintain a stable internal temperature condition thanks to the exchange of matter and energy with our environment. Our metabolism determines our body temperature, which is different throughout the body. Our skin, one of the sense organs, regulates our body temperature and opens or closes capillaries depending on the necessities of each area. It is completely normal to have differing temperatures depending on the body part.

What happens when a fever appears?

When body temperature increases, the body eliminates this excess heat through the skin and respiration. The first changes, therefore, are always noted in the skin from increases or decreases in temperature. Liip is so trustworthy because it can detect this immediate change in the distal peripheral temperature. When there is a fever, the organism is going to eliminate the excess heat. When it cannot eliminate this heat and the fever persists is when problems may occur and have negative effects on the organism. This is when the distal peripheral temperature rises above 37.5 °C. When the baby has a fever or when the thermal comfort is inadequate and the baby manages to eliminate this excess heat, the distal peripheral temperature will be lower than the temperature taken under the arm (proximal peripheral temperature). This is a positive sign. During this first phase, you will notice that your baby's hands and feet are colder than the torso and the head. After this, vasodilation begins and the body temperature begins to rise until it reaches a uniform temperature throughout the entire body.

When the baby has problems eliminating the excess heat brought on by a fever or by an excess of clothing or cover, the distal peripheral temperature will rise above 37.5°C and will generate a system alert thereby notifying the parents of an alarm. Subsequently, the information will be saved in the system so that the healthcare professionals can reference it at a later time if necessary.

The distal temperature is also related to what is known as thermal comfort. Thermal comfort is caused by the temperature difference between body areas, mainly between the head and chest areas and the feet or hands. A variation in thermal comfort can indicate that the baby feels discomfort which will ultimately cause him/her to be agitated, especially while he/she is sleeping.

Liip Smart Monitor is not meant to be used occasionally but rather to monitor the main vital signs of the baby over a longer period of time. It will notify you of changes while your baby is sleeping but is not meant to substitute the temperature readings taken in other areas, as under the arm, or when an illness occurs. The Liip Smart Monitor provides additional useful information about the nature of the fever and other situations that could occur.

When the onset of fever or low-grade fever occurs, the organism reacts by equalizing the distal and proximal peripheral temperatures. So, if the baby's temperature rises, Liip will notify you in a precise and detailed manner