Kawasaki Disease

Clinical Resource Pack
Kawasaki Disease Symptoms

- Persistent fever
- Rash
- Bloodshot eyes
- Swollen fingers/toes
- Swollen glands
- Cracked lips/‘strawberry’ tongue
**Clinical Resource Pack – Kawasaki Disease**

Thank you for downloading a copy of our Kawasaki Disease Clinical Resource information pack.

Kawasaki Disease is increasingly common and today it is the leading cause of acquired heart disease in children. Our own research with over 200 NHS trusts shows that in the last ten years, hospital admissions for Kawasaki Disease in England alone increased fourfold. That’s not because of increased awareness unfortunately, because many parents and doctors still don’t know Kawasaki Disease – but it’s important that they do and I’d like your help with that.

A study done by the British Paediatric Surveillance Unit (BPSU) led by Professor Robert Tulloh, a leading UK expert in Kawasaki Disease (and one of our Trustees) showed that children treated early for Kawasaki Disease had a much lower risk of heart damage than those treated later. Evidence shows we should aim to **diagnose Kawasaki Disease within 5 days** from the onset of fever, or as soon as possible thereafter. Children diagnosed and treated after 7 days have a very high risk of lifelong heart disease. Raising awareness of this disease so we can achieve early diagnosis is simply critical. The BPSU study also showed that almost all children were seen by a clinician in the first 2 or 3 days of illness, so there is a real opportunity to transform outcomes for children, by recognising Kawasaki Disease early. If you’d like to read the research paper, you’ll find it on the homepage of our website www.societi.org.uk – thanks to the support of the BMJ. Scroll down to see ‘Latest Research for Clinicians’ and click on the link “Kawasaki Disease: a prospective population survey in the UK and Ireland 2013 - 15” published August 2018.

The enclosed information pack which I hope you will find helpful, includes information posters which are suitable for display in clinic and waiting areas and a handy Myths and Facts sheet to share with your colleagues – and our information leaflets which are endorsed by the Royal College of Paediatrics and Child Health. Finally, our pack includes a parent information leaflet on some of the longer term issues which children affected by Kawasaki Disease can experience.

If you have any questions please do get in touch. If you’d like any further copies of the information provided in the pack, printable copies can be downloaded from our website at www.societi.org.uk – or simply get in touch. We can provide our information free of charge.

Thank you in advance for your help. Kawasaki Disease is increasingly common – we need doctors to EXPECT to see it and be READY to treat it.

Yours sincerely,

Rachael McCormack
Founder & Trustee, Societi Foundation

Enc. Societi Clinical Resource Pack
This Poster has been designed as a clinical resource for paediatric, emergency and primary care staff.

It can be printed at A4 or A3 size and may be laminated to be displayed in clinic.
**Kawasaki Disease** is the leading cause of acquired heart disease in UK children...
...faster diagnosis and treatment can change that!

### Symptoms
**Remember TEMPERS**
Children with Kawasaki Disease are characteristically irritable!

If a child has a PERSISTENT FEVER & two or more of these symptoms THINK KAWASAKI DISEASE!

- **T**emperature - Persistent high fever
- **E**rythema - reddened hands and feet with swelling
- **M**outh - dry, sore mouth, cracked lips, ‘strawberry tongue’
- **P**ace - Treat early to reduce potential heart damage
- **E**yes - bloodshot, non-sticky conjunctivitis
- **R**ash
- **S**wollen glands in neck, often just one side

### Numbers to Remember*
- 39% of treated infants develop coronary artery aneurysms
- 19% of treated children overall develop coronary artery aneurysms
- #1 cause of acquired heart disease in UK children

*BPSC survey Kawasaki Disease, UK and Ireland 2013–2015

### Case History
Case history is important in Kawasaki Disease - symptoms can appear over time. Not all symptoms appear in all children

### Differential Diagnosis
When ruling out the many other causes of fever in children...
...please THINK Kawasaki Disease

- Virus?
- Scarlet Fever?
- Meningitis?
- Tonsilitis?

**Please...THINK Kawasaki Disease**

**Slapped Cheek?**

**Strep Throat?**

**Meningitis?**

**Tonsilitis?**

**Scarlet Fever?**

**Measles?**

### Acute Kawasaki Disease is always an emergency!

### Persistent Fever
Kawasaki Disease should always be considered in any child with unexplained persistent fever

### Increasingly Common
Hospital admissions increased in England FOURFOLD in the last decade - EXPECT to see it, BE READY to treat it

### Treatment Time*
Refer URGENTLY to paediatrician for treatment within 5 days from onset of fever

BPSU study findings show children treated early had a lower risk of lifetime heart damage than children treated later.

**EARLY TREATMENT IS KEY**

**to reduce risk of heart damage**

...PLEASE DONT DELAY!

**2016 Outcomes**
\[
\text{28\% of treated children with heart damage}
\]

This is too high!

**2020 Outcomes?**
\[
\text{4\% (or less) of treated children with heart damage}
\]
Our RCPCH endorsed TEMPERS mnemonic leaflet can be laminated and displayed in a clinic room or can be used as a waiting room resource for patients.

It is intended to be printed at A4.

Hard copy DL sized versions of this leaflet are available from Societi Foundation – please contact us and we can provide you with these.
Kawasaki Disease is predominantly a childhood illness though it can affect people of any age. Its cause is unknown. Kawasaki Disease is the leading cause of acquired heart disease in children. Awareness of Kawasaki Disease is currently low and it is often mistaken for other common childhood illnesses, leading to misdiagnosis and delayed treatment. Children who go untreated or who are treated later face higher risks of developing complications including life long heart damage.

Early diagnosis and treatment are key to better outcomes

...for our children

Kawasaki Disease - who does it affect?
It is mostly a childhood illness with over 75% of those affected being under 5 years old but it affects older children too.

Kawasaki Disease - what's the issue?
In the UK awareness of Kawasaki Disease is low. Currently UK diagnosis and treatment times are too slow. 39% of babies (under one year) treated for Kawasaki Disease develop serious heart problems. 28% of diagnosed children experience heart complications. Overall, 19% of children treated develop serious heart damage. For a few children every year Kawasaki Disease is fatal. We need everyone to know Kawasaki Disease as early diagnosis and treatment can prevent heart damage. (Data from BPSU Study, Kawasaki Disease UK & Ireland 2013-2015)

Kawasaki Disease - how common is it?
Hospital admissions in England for Kawasaki Disease have increased fourfold in the last ten years. It’s more common than some types of meningitis. About 1 in 10,000 children are currently diagnosed each year and very poor levels of awareness mean many more children may be affected.

Kawasaki Disease - what can I do?
Know the symptoms and remember, symptoms may not appear all at once. Not all children present with all symptoms so if a child has a PERSISTENT FEVER for 5 DAYS or more with 2 or more of the symptoms outlined below THINK Kawasaki Disease and seek URGENT medical advice. You could save a child’s heart.

Kawasaki Disease is the #1 cause of acquired heart disease in children in the UK...

...help us change this.

Kawasaki Disease - who does it affect?
Kawasaki Disease is the #1 cause of acquired heart disease in children in the UK...

If a child has a PERSISTENT FEVER and two or more of these symptoms THINK KAWASAKI DISEASE!

**TEMPERS**
- **T**emperature - Persistent high fever
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www.justgiving.com/societi

Kawasaki Disease? Remember TEMPERS
Children with Kawasaki Disease are characteristically irritable!

Societí
The UK Foundation for Kawasaki Disease
www.justgiving.com/societi

Kawasaki Disease

Kawasaki Disease - what is it?
Kawasaki Disease is an inflammatory media arteritis of unknown cause which characteristically affects children aged under 5 years. It is an inflammatory disease that can cause temporary inflammation of the walls of the arteries which can lead to narrowing of the blood flow in the coronary arteries.

Kawasaki Disease - symptoms
The symptoms of Kawasaki Disease can vary but are characterised by:

- Fever
- Erythema of the skin
- Mouth changes
- Swollen lymph nodes
- Changes in the eyes

Kawasaki Disease - diagnosis
Diagnosis of Kawasaki Disease is based on the presence of at least 5 of the following symptoms over a period of 5 days:

- Fever
- Erythema of the skin
- Mouth changes
- Swollen lymph nodes
- Changes in the eyes

Kawasaki Disease - treatment
Treatment for Kawasaki Disease is based on the administration of intravenous immunoglobulin (IVIG) which helps to reduce the inflammation and prevent the development of complications.

Kawasaki Disease - complications
Complications of Kawasaki Disease can include:

- Heart problems
- Kawasaki syndrome
- Kawasaki arteritis

Kawasaki Disease - prevention
There is currently no known way to prevent Kawasaki Disease. However, early diagnosis and treatment can help prevent complications.

Kawasaki Disease - who does it affect?
It is mostly a childhood illness with over 75% of those affected being under 5 years old but it affects older children too.

Kawasaki Disease - what's the issue?
In the UK awareness of Kawasaki Disease is low. Currently UK diagnosis and treatment times are too slow. 39% of babies (under one year) treated for Kawasaki Disease develop serious heart problems. 28% of diagnosed children experience heart complications. Overall, 19% of children treated develop serious heart damage. For a few children every year Kawasaki Disease is fatal. We need everyone to know Kawasaki Disease as early diagnosis and treatment can prevent heart damage. (Data from BPSU Study, Kawasaki Disease UK & Ireland 2013-2015)

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Hospital admissions in England for Kawasaki Disease have increased fourfold in the last ten years. It’s more common than some types of meningitis. About 1 in 10,000 children are currently diagnosed each year and very poor levels of awareness mean many more children may be affected.

Kawasaki Disease - what can I do?
Know the symptoms and remember, symptoms may not appear all at once. Not all children present with all symptoms so if a child has a PERSISTENT FEVER for 5 DAYS or more with 2 or more of the symptoms outlined below THINK Kawasaki Disease and seek URGENT medical advice. You could save a child’s heart.

Kawasaki Disease is serious! Awareness is urgent!
Today, most people haven't heard of Kawasaki Disease. That's one of the biggest challenges we face. Help us get it known because Kawasaki Disease is increasingly common in the UK. Too many children and young people today have lifetime heart damage because of Kawasaki Disease. help us change this. For more information visit societí.org.uk
Our Myths and Facts sheet has been developed following many ‘Kawasaki Conversations’ with doctors and families who have experienced a Kawasaki Disease diagnosis. It’s clear that there is out dated information in circulation about Kawasaki Disease which we’re keen to help move on. We’ve collected these ‘myths’ and, with our Scientific Advisory Board of UK leading Professors, presented the facts alongside.

It is intended to be printed at A4.

You can download your own set of Myths and Facts from our website.
Think you know Kawasaki Disease?
Here are some common clinical myths and the facts behind them!

This “Myths and Facts” summary has been prepared for clinicians with input from Professor Robert Tulloh, Bristol Royal Hospital for Children, internationally recognised expert in Kawasaki Disease. These myths hamper care and delay diagnosis - and so adversely affect outcomes for children. Please contact us if you know of other myths and we’ll help debunk those too!

**Symptoms & Treatment**

**Myth:** A characteristic symptom of Kawasaki Disease essential for diagnosis is peeling of fingers/ soles of feet

**Fact:** If skin peeling occurs - and it only appears in some patients - this will only occur after 10-21 days. **Never** dismiss a case on the basis of skin peeling being absent

**Myth:** There is a treatment window for IVIG of 10 days

**Fact:** There is no "window" or cut off point for IVIG. If clinical benefits are possible and inflammation is ongoing (fever, elevated CRP) - TREAT! And do not delay IVIG assuming a 10 day window for effective treatment. Current treatment times are too slow. Aim to treat at 5 days (ASAP) after fever onset - early treatment is key to reduce risk of heart damage!

**Myth:** Kawasaki Disease has no characteristic symptoms

**Fact:** The strongest defining symptom which should always trigger suspicion of Kawasaki Disease is a persistent, high unremitting fever for 5 days

**Myth:** IVIG reduces heart damage from 25% to 5%

**Fact:** 19% of all children develop permanent damage and 39% of infants develop coronary artery aneurysms despite IVIG - linked to delayed treatment. Early treatment is critical!

**Heart Damage**

**Myth:** Kawasaki Disease rarely causes heart damage

**Fact:** In the UK, 28% of affected children have heart damage, 19% have lasting coronary artery aneurysms, 39% of infants develop coronary artery aneurysms. Late treatment is linked to poorer outcomes

**Who & How Many?**

**Myth:** Child is too young / too old for Kawasaki Disease

**Fact:** You will see Kawasaki Disease in very young and older children. It can be most severe in infants (under 1yr) and c.25% of those affected are older than 5 years.

**Myth:** Kawasaki Disease very rare, you’ll never see it

**Fact:** Kawasaki Disease is increasingly common. Cases are doubling globally every 10 years. In England, hospital admissions for Kawasaki Disease increased fourfold in the last decade. Kawasaki Disease is more common than bacterial meningitis. Please EXPECT to see it and be READY to treat it

**Diagnosis**

**Myth:** Echocardiograms are a useful way to confirm a Kawasaki Disease diagnosis

**Fact:** Echo is very useful to confirm heart damage but Kawasaki Disease is suspected first. Echo can help diagnose an atypical case. Never delay treatment awaiting access to an echo if Kawasaki Disease is suspected

**Myth:** Persistent fever plus all 5 symptoms must all be present to confirm a diagnosis of Kawasaki Disease

**Fact:** 47% of UK/Ireland cases in infants and 25% of cases overall are incomplete i.e. do not have all symptoms. Kawasaki Disease can be diagnosed with fewer symptoms - not all patients exhibit all symptoms and symptoms can appear in series. If a child presents with persistent fever and 2 or more Kawasaki Disease symptoms, always THINK Kawasaki Disease

**Myth:** After coronary artery aneurysms have ‘resolved’, patients can be fully discharged from care

**Fact:** All patients with heart damage which persist beyond the acute phase (even if it ‘resolves’ later) require lifelong specialist care and are at increased risk of major cardiac events (see NHSI PSA 5/2016*)

**Myth:** There are no known future health risks for patients

**Fact:** Patients with lasting cardiac damage are known to be at higher risk of artery stenosis and calcification. Lifetime specialist care is essential. See UK 2013 guidelines for clinical follow up regime

**Myth:** A past patient history of Kawasaki Disease is an irrelevant clinical consideration later in life

**Fact:** Adverse cardiac events with atypical presentation can occur in patients with a past history of Kawasaki Disease and this history should always inform clinical care - see NHSI Patient Safety Alert May 2016*

**Impacts**

**Myth:** Kawasaki Disease is a systemic disease and effects can be wide ranging. It can affect hearing, sight, kidneys, joints and cause hydrops of the gallbladder. It can also cause behavioural issues. See Societi Long Term Effects leaflet*

**Long-Term Care**

**Myth:** Patients with lasting cardiac damage are known to be at higher risk of artery stenosis and calcification. Lifetime specialist care is essential. See UK 2013 guidelines for clinical follow up regime

**Fact:** Adverse cardiac events with atypical presentation can occur in patients with a past history of Kawasaki Disease and this history should always inform clinical care - see NHSI Patient Safety Alert May 2016*

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Please see societi.org.uk - Resources - For Clinicians - Here you will find the 2013 UK Kawasaki Disease Management Guidelines, Societi Long Term Effects leaflet and the *May 2016 NHSI Kawasaki Disease Patient Safety Alert*
Our longer term issues leaflet is intended to be handed to patient’s families to help them and other primary carers to understand some of the issues associated with the effects of Kawasaki Disease.

It is intended to be printed as a double sided folded A4.

Hard copy versions of this leaflet are available from Societi Foundation – please contact us and we can provide you with these.
Kawasaki Disease
Understanding some of the possible longer term issues

Kawasaki Disease is a serious disease which affects hundreds of children in the UK each year. Most children affected are under 5 years but about 25% of patients are older children. Kawasaki Disease has a range of symptoms including:

- Persistent fever
- Bloodshot eyes
- Swollen glands
- Rash
- Cracked lips/strawberry tongue

Kawasaki Disease can present with some or all of these symptoms. If a child has a persistent fever with any two or more of these symptoms please THINK Kawasaki Disease.

Most of these symptoms occur in the first few days of the illness, although they are often not all present at the same time. There are sometimes other symptoms too - loss of appetite, diarrhoea, tummy ache, vomiting and jaundice. Typically, children with Kawasaki Disease are very irritable.

Kawasaki Disease is a serious illness as it can cause coronary artery damage – damage to the blood vessels in the heart. Early treatment is key to reduce the risk of lifelong serious heart damage. Kawasaki Disease is the leading cause of acquired heart disease in children in the UK.

THANK YOU
If you have found the information in this leaflet helpful, please consider making a donation to Societi Foundation. Your donations support our work to share information about Kawasaki Disease and protect children’s hearts.

About this leaflet
This leaflet has been written for parents and carers of children who have been affected by Kawasaki Disease. The information it contains has been reviewed by doctors from Societi Foundation’s Scientific Advisory Board. It is designed for parents and can also be shared with school teachers or care givers to explain more about some of the longer term issues which some children with Kawasaki Disease may experience.

See a doctor if you have concerns!
This leaflet does not provide medical advice. It is intended to be a guide for general information purposes only. If you have concerns about your child, please contact your usual doctor or GP.

Important points:
1. Whilst you’ll read about a range of possible longer term issues in this leaflet, following Kawasaki Disease most children experience just one or two, if any of these issues.
2. It’s important to know that the majority of longer term issues will resolve within one to two years or well before then, on their own without additional treatment for most children. If you have concerns, please see your usual doctor or GP.
3. If a child has serious, lasting complications following Kawasaki Disease, a medical care and action plan should be put in place at school/nursery. If this is necessary, your child’s doctor will provide guidance for this.

If you would like more information please visit www.societi.org.uk

Eczema & skin peeling
After Kawasaki Disease, some children have ongoing problems with occasional dry skin areas and skin peeling. Dry lips can be treated with Vaseline, this does help. Creams such as E45 can be used on dry, peeling skin if it is uncomfortable. Whatever cream you choose to use, pick-one without antibiotics or perfumes as these ingredients can irritate the skin. Do discourage children from picking the affected areas too, as this could lead to infection.

Exercise
All children can exercise after Kawasaki Disease, in fact regular exercise is important! Children may be advised by their doctor to avoid certain types of exercise if they have very serious heart damage. This would include those children taking blood thinning medicines like warfarin and clexane where a doctor may advise that they should not take part in contact sports, for instance. If there need to be any restrictions on exercise, your child’s doctor will advise you in detail. If you have any questions about exercise after Kawasaki Disease, discuss these with your doctor.

Joints
Nearly half of children affected by Kawasaki Disease have some initial issues with joint pain or swelling in the first few weeks. Areas most affected include large joints - elbows, knees or ankles. This can be quite painful but over the course children’s painkillers can be given to help (ibuprofen should be avoided in children who are already taking aspirin.) Very occasionally joint pain can continue for longer – if this happens, discuss it with your doctor.

Tummy pain
Many children complain of tummy pain and possibly have vomiting and/or diarrhoea when first ill with Kawasaki Disease - this doesn’t usually last long. Ongoing tummy pain could however be linked to other issues, for instance it can sometimes be caused by some types of medicines (see also Treatments & precautions). Speak to your doctor if this is a concern.

Behaviour
Some children will have difficulty concentrating, be more restless or have trouble sleeping for a short time after Kawasaki Disease. Some will experience anxiety linked often to awareness of a difficult period in hospital and older children may be at having been seriously unwell. This can lead to worries about health or a more generalised anxiety. This shouldn’t present lasting difficulties for most children and studies show that this improves, with almost all children recovering within 1 to 2 years. If other mental health issues emerge, these are probably not linked to Kawasaki Disease and a doctor should be consulted.

Tiredness
Having been seriously ill with Kawasaki Disease, many children experience tiredness and for some this can last a few weeks or months. After Kawasaki Disease, the recovery process will be different for each child and some may have low levels of energy for some time after being initially unwell. If tiredness is not improving and is affecting school (for instance) discuss it with your doctor.

Treatments & precautions
The main approach to treating Kawasaki Disease initially is with two medicines called immunoglobulin and aspirin. After treatment with immunoglobulin, your child’s doctor will advise that for a period of 6 months, they will need to avoid having live vaccinations. This is simply because the antibodies in immunoglobulin may mean that vaccination might not be effective.

All children with Kawasaki Disease will also be treated initially with low dose aspirin for about 6 weeks. After 6 weeks an echocardiogram (ultrasound of the heart) will be done to check for any damage to the heart. Aspirin will be stopped in children with no lasting heart damage.

In children who develop lasting heart damage, low dose aspirin may be continued longer term.

Some children may experience side effects whilst taking aspirin long term, these can include headaches, tummy pain and tiredness. Medicines to protect the tummy are often given with aspirin to limit side effects (see also Bruising).

Parents will be advised if a child is taking aspirin long term, following their initial illness with Kawasaki Disease, to stop this for a few days if there is a high fever (.39°C+) This is to reduce the risk of Reyes syndrome, a rare but potentially very serious illness.

Other treatments
Other medicines may also be given to those with the most serious heart damage, for instance children with giant coronary artery aneurysms. Treatments may include warfarin or clexane to help thin the blood. For these children, precautions may be needed such as safety helmets for playtimes, which help to avoid knocks to the head and for older children, avoiding contact sports (see also Exercise).

Bruising
Following Kawasaki Disease, if a child is taking aspirin and blood thinning medicines, they may bruise much more easily. It is important that nursery/school is aware of this and it is noted in the child or young persons individual record.

A repeat of some symptoms?
Many children will experience repeated symptoms or “reactivation”. This might happen when they have a cold, and they get a very high fever, red eyes or a rash, or peeling skin. This happens very frequently in children who have had Kawasaki Disease but almost always, it is not another episode of Kawasaki Disease. It’s the child responding differently to a bug or infection after Kawasaki Disease. These symptoms can be worrying for parents even though it’s not Kawasaki Disease.

It’s important to know that actually getting Kawasaki Disease again is very rare – and only happens in 2% of children. Speak to your doctor if you have concerns.

Flexibility & support
After a serious illness like Kawasaki Disease, children and their families may need support as normal routines such as nursery and school are resumed. Some flexibility will be essential to help children settle back in – especially if there are significant adjustments now needed, like protective safety helmets mentioned above or regular medication.

Some children will need routine follow up medical appointments and may miss school / nursery because of this.

Working together between schools and families is important to help minimise any negative impact of necessary changes like these.
Our Kawasaki Disease awareness poster is intended as a waiting room resource for patients.

The poster can be printed at A4 or A3 size and can be laminated for display.
Kawasaki Disease is the leading cause of acquired heart disease in children in the UK. It’s time we changed that...

Together we will

Kawasaki Disease Symptoms:

- Persistent fever
- Swollen fingers/toes
- Swollen glands
- Bloodshot eyes
- Cracked lips/‘strawberry’ tongue
- Rash

Kawasaki Disease is increasingly common in the UK

If a child has a persistent high fever for 5 days or more, with TWO or more of these symptoms please THINK Kawasaki Disease

Kawasaki Disease can be present with some or all of these symptoms

Please EXPECT to see it, be READY to treat it!

EARLY TREATMENT IS KEY ...PLEASE DON’T DELAY

Children diagnosed and treated in less than 7 days from onset of fever have a much reduced risk of life long heart damage

Kawasaki Disease is predominantly a childhood illness. Its cause is unknown. Kawasaki Disease is the leading cause of acquired heart disease in children. It is often mistaken for other common childhood illnesses, leading to delayed treatment. Children who go untreated or who are treated later face significantly higher risks of developing serious complications including life long heart damage. Babies under one year are at greatest risk of serious heart damage. Early diagnosis and treatment is critical.

Current UK & Ireland Outcomes for Kawasaki Disease

- The current average diagnosis time for Kawasaki Disease is 7.8 days
  - This is too slow!
- 39% of babies with Kawasaki Disease develop coronary artery aneurysms
  - This is too high!
- 19% of children overall develop coronary artery aneurysms
  - This is too high!
- 28% of children overall have some heart damage
  - This is too high!

TOGETHER WE CAN CHANGE THIS!

Poster data from Tulloh et al, Kawasaki Disease: a prospective population survey UK & Ireland 2013-15

societi.org.uk
@Societi_UK_KD
www.justgiving.com/societi
Thank you for taking the time to look at the contents of this pack. We hope the information we have included is useful to you and your colleagues – and to your patients.

Sharing knowledge and growing the number of clinicians who can recognise this often pernicious disease will always remain a core aim for Societi and WILL reduce acquired heart disease from Kawasaki Disease in children.

Thank you for reading. Together we can combat Kawasaki Disease and the time you’ve already invested in doing just that means such a lot.

With my very best wishes,

Rachael McCormack, Founder
for Societi Foundation
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