

Procuring and Supplying PPE for the COVID-19 Pandemic

Report of the Auditor General for Wales

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Mae'r ddogfen hon hefyd ar gael yn Gymraeg.

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Key messages

Context

- 1 This report looks at the procurement and supply of Personal Protective Equipment (PPE) during the COVID-19 pandemic. PPE is essential for protecting those who get close to infected people. It can also prevent people spreading the virus amongst each other and to those they are caring for.
- 2 Our report focuses on the national efforts to supply health and social care in Wales. These efforts have been led by the Welsh Government, working with partners in the NHS Wales Shared Services Partnership (Shared Services) and local government. Shared Services has taken on an expanded role in securing PPE for the whole health and social care sector. **Appendix 1** describes our audit approach and methods.
- 3 We have not reviewed arrangements for local procurement of PPE by NHS and local government bodies, nor the logistical arrangements in place locally to distribute PPE directly to frontline staff. We have, however, reflected evidence collected by professional bodies about the views of front-line staff. In carrying out this work, we have been mindful of the work by the National Audit Office (NAO) in England on the supply and procurement of PPE. Where possible, we have sought to align our scope, albeit in a devolved context.

Overall conclusion

- 4 In collaboration with other public services, Shared Services overcame early challenges to provide health and care bodies with the PPE required by guidance without running out of stock at a national level. It is now in a far stronger position, with stockpiles of most PPE equipment and orders in train for those that are below 24 weeks. Some frontline staff have reported that they experienced shortages of PPE and some felt they should have had a higher level of PPE than required by guidance. The Welsh Government and Shared Services put in place good arrangements overall to procure PPE that helped manage risks and avoid some of the issues reported on in England. However, Shared Services did not publish contract award notices for all its PPE contracts within 30 days of them being let.

Key findings

- 5 The challenge facing the NHS and social care at the start of the pandemic was stark. The stockpile developed for a flu pandemic was inadequate for a coronavirus. Global supply chains had fragmented as countries competed for scarce supplies and some imposed export controls.
- 6 Public services across Wales responded in an increasingly collaborative way. Shared Services took on an expanded role in supplying PPE to the wider NHS, including independent contractors in primary care (GPs, dentists, pharmacies and optometrists). Shared Services then worked closely with local government to understand demand in social care and then took on an increasing role supplying PPE. Shared Services now supplies almost all social care PPE needs. We recognise the huge individual and collective effort involved in the work to source and supply PPE to frontline staff.
- 7 Shared Services data shows that, nationally, stocks did not run out although stocks of some items got very low. At times, Wales drew on mutual aid from other countries but ultimately gave out significantly more than it received. The health and care system is now in a much better position, with buffer stocks of most PPE items in place and orders due on key items where stocks are below target.
- 8 Surveys carried out by the Royal College of Nursing and British Medical Association suggest confidence in the supply of PPE grew shortly after the start of the pandemic, but concerns remain. While we cannot be sure how representative these views are, some frontline staff reported shortages of specific items of PPE, with a small minority saying at times they had none at all. In some cases, staff concerns relate to the fact that they want a higher level of PPE than required under the guidance.
- 9 A range of bodies were involved in sourcing PPE globally and in responding to, and working with, local manufacturers. In contrast to the position described by the NAO in England, we saw no evidence of a priority being given to potential suppliers depending on who referred them.
- 10 Overall, Shared Services developed good arrangements to rapidly buy PPE, while balancing the urgent need to get supplies for frontline staff with the need to manage significant financial governance risks in an area of rapidly growing expenditure. These risks included dealing with new suppliers, having to make large advance payments and significant quantities of fraudulent and poor-quality equipment being offered.

- 11 Time pressure meant due diligence could not always be carried out to the level it would outside of a pandemic in a normal competitive tendering process. But, for each contract we reviewed, we found evidence of key due diligence checks. And while costs were generally higher than before the pandemic, we saw evidence of Shared Services negotiating prices down.
- 12 However, Shared Services did not meet the requirements under emergency procurement rules to publish contract award notices within 30 days. Shared Services told us that its staff needed to prioritise sourcing PPE and that there were other administrative reasons for delays.
- 13 Shared Services' plan for PPE ran until March 2021. There are now some key decisions to make about the future strategy for PPE, including the size and nature of the stockpile going forwards and the role of Welsh manufacturers.



Procuring and supplying PPE in these times has been far from business as usual. The challenges, risks and pressures have been higher, and a huge individual and collective response has been needed.

NHS Shared Services, working with others, has responded well to develop and maintain the national stock and to supply health and care bodies. However, despite competing pressures, Shared Services should have moved more quickly to publish details about the contracts it let.

While the overall picture painted by my report is relatively positive given the difficult circumstances, we cannot ignore the views expressed by some of those on the frontline about their own experience.

There are also lessons for the Welsh Government and Shared Services to learn – about preparing for a future pandemic as well as addressing some current challenges.

Adrian Crompton
Auditor General for Wales



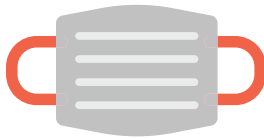
Key facts

630 million

the number of items of PPE issued by Shared Services between 9 March 2020 and 7 February 2021

Less than 2

the lowest number of days' worth of national stock of visors, Type IIR face masks and surgical gowns at points during April 2020



£8 million

the annual amount NHS Wales would typically spend on PPE before the pandemic



Over £300 million

the total amount expected to be spent on PPE for Wales during 2020-21

£880 million

our estimate of how much the Welsh Government has received so far through the Barnett formula as a result of spending on PPE in England

24

the number of weeks' worth of PPE stock Shared Services currently aims to hold



67

the number of suppliers Shared Services has contracted with to supply the NHS and social care with PPE since the start of the pandemic



Key roles and responsibilities

Appendix 2 sets out the main organisations and groups involved in the national supply and procurement of PPE. At a higher-level, the key roles are:

Welsh Government – provides a lead on the pandemic response and policy, including liaison with the UK Government, and funds PPE



Shared Services – responsible for procuring and supplying PPE to hospitals, took on an expanded role for procuring and supplying primary care and social care



Public Health Wales – responsible for developing and issuing, with other UK countries, the infection prevention and control guidance that determines what PPE is needed and in what circumstances





Recommendations

Recommendations

Preparedness for future pandemics

- R1** As part of a wider lessons learnt approach, the Welsh Government should work with other UK countries where possible to update plans for a pandemic stockpile to ensure that it is sufficiently flexible to meet the demands of a pandemic from different types of viruses.
- R2** In updating its own plans for responding to a future pandemic, the Welsh Government should collaborate with other public bodies to articulate a set of pan-public sector governance arrangements for planning, procuring and supplying PPE so that these do not need to be developed from scratch.
- R3** Shared Services should work with NHS and social care bodies to maintain an up-to date stock management information system that provides timely data on local and national stocks of PPE that can be quickly drawn upon in a future pandemic to support projections of demand and availability as well as providing a robust source of information for briefing stakeholders.

Recommendations

Procurement strategy for PPE

- R4** In updating the strategic approach to PPE, Shared Services and the Welsh Government should work together to develop a clear direction in terms of:
- a return to competitive procurement and an end to emergency exemptions.
 - fuller consideration of the wider criteria usually applied to procurement, such as sustainable development and policies on modern slavery.
 - the intentions and aspirations in relation to the domestic PPE market, including the balance between the potential benefits of resilience through local production capacity against the potentially increased costs compared to international manufacturers.
 - the size and nature of the pandemic stockpile it intends to hold, considering the benefits and costs of holding and maintaining stock and the timing of purchases given the ongoing disruptions to the PPE market.

Recommendations

Transparency

- R5** To increase confidence in stocks and supplies at the national level, Shared Services should work with the Welsh Government to publish details of the amount of stock it holds of each item alongside the regular publication of data on the numbers of items issued.
- R6** Shared Services should: check that it has published contract award notices for all contracts where it is required to do so; review those that it has published to ensure they are accurate; and ensure that it publishes contract award notices within the required timeframe for future contracts.
- R7** The Welsh Government should review whether the Sell2Wales site needs updating to allow bodies to publish retrospective contract award notices more efficiently without relying on suppliers to sign-up.
- R8** Given public interest in the awarding of PPE contracts and to promote confidence in the procurement system, the Welsh Government and Shared Services should publish details of the contracts awarded under emergency exemptions in a single place that is easy to access.



The supply of PPE



01

- 1.1 This part of the report covers the supply of PPE. In particular, it looks at the extended role that Shared Services took on for supplying hospitals, primary care and the whole social care sector. It covers the supply of PPE to those bodies in health and to the local government stores that distribute to social care. We did not look at local processes within hospitals or in local government for getting PPE to frontline staff. We have, however, reflected evidence collected by professional bodies about the views of front-line staff.

UK-wide arrangements for an influenza pandemic proved inadequate for the demands of dealing with the coronavirus and the Welsh Government quickly decided to secure its own PPE supplies through Shared Services

- 1.2 The Welsh Government and other nations of the UK have long-standing plans for an influenza pandemic. These included a [2011 Influenza Pandemic Preparedness Strategy](#), agreed by all four UK nations. Following the swine flu outbreak in 2009, the UK Government and Welsh Government developed and maintained a national stockpile in preparation for an influenza pandemic.
- 1.3 In addition to medicines and other countermeasures, the Pandemic Influenza Preparedness Programme (PIPP) held a stock of PPE, based on estimates of need for an influenza pandemic. The PIPP involved a physical stockpile of items, stored in South Wales, plus UK-wide contracts in place for additional stock to take the PIPP to 15 weeks of supply if required. However, due to a lack of supply in the global market, these ‘just-in-time’ contracts did not deliver as fully as expected with none of the FFP3 respirators being received. To mitigate some of these issues, equipment that was close to, or past, its expiry date was tested and had its expiry date extended.
- 1.4 The Welsh Government quickly realised that the PIPP would not be adequate for a coronavirus pandemic. The PPE would need to be used at a faster rate to deal with the specific demands of COVID-19. Some items – notably gloves and aprons – were below the estimated requirement for a flu pandemic and would not last as long as needed for COVID-19. Surgical gowns were not held in the PIPP stockpile.¹ These items proved to be critical for hospital staff treating COVID-19 patients. The NAO’s report on the supply of PPE confirms the inadequacy of the UK stockpile for the demands of a coronavirus.

1 As reported by the NAO, the UK Government’s scientific advisors had recommended in 2019 that gowns and visors be added to the stockpile, but the UK Government was still deciding which gowns to procure when the pandemic started.

- 1.5 The Welsh Government initially anticipated there would be a UK Government led approach to find additional supplies. However, this arrangement proved challenging in practice. The global market was fragmented, countries around the world were competing for scarce supply and some imposed export controls. The NAO has set out the challenges the UK Government faced just to secure PPE supplies for England.
- 1.6 The Welsh Government decided in late March 2020 that it would continue to work with the other UK administrations, where possible, but would procure and supply PPE for itself. We consider the work to procure PPE for Wales in **Part 2**.

The Welsh Government established effective arrangements for coordinating the supply effort although it took time to develop collaboration between health and social care

- 1.7 A small team of Welsh Government officials coordinated the PPE supply effort, working very closely with Shared Services. Daily meetings during the early stages of the pandemic discussed issues such as stock levels, likely demand, distribution of available stock and procurement of new supplies. Shared Services took day-to-day charge of delivery and collated information for Welsh Government officials to brief senior colleagues and ministers, and to respond to wider scrutiny.
- 1.8 The Welsh Government established two key groups to oversee PPE arrangements and provide a formal framework for joint working specifically on PPE:
 - a 'health counter-measures group' started meeting on 12 February 2020 to secure and deploy PPE supplies in line with ministerial policy and public health guidance. The group included Welsh Government officials responsible for health and social care, Shared Services and Public Health Wales. It reported to the Planning and Response Group, which was set up in March to coordinate the overall health and social care response to the pandemic and chaired by a senior Welsh Government official. The Welsh Government suspended the health counter-measures group on 1 June 2020 once it judged the emergency phase had passed.
 - an 'executive leads group' met from late April 2020 and brought together a senior officer from the Welsh Government, Shared Services, each health board, Velindre University NHS Trust, Welsh Ambulance Services NHS Trust and Public Health Wales to exchange information on local issues and the national response. Before formalising this group, there was already extensive communication between senior NHS executives and Welsh Government officials through other mechanisms.

- 1.9 During March 2020, joint working was not as developed between Shared Services, local government and the social care sector. Shared Services' core work is to supply services delivered directly by health boards and trusts, and it had not previously been responsible for supplying independent primary care contractors and social care. The Welsh Government wrote to local authorities on 19 March 2020 stating that social care providers could obtain PPE from Shared Services for the treatment of symptomatic residents if they were unable to secure it from other sources.
- 1.10 The Welsh Local Government Association (WLGA) and the Welsh Government set up a working group on COVID-19 procurement, bringing together local government procurement leads and the Welsh Government's National Procurement Service. This group met daily from 23 March 2020 to the end of June 2020 when the meetings then became less frequent. The Planning and Response Group had a social care sub-group where representatives from the WLGA and social care organisations could raise issues about PPE supply. However, the WLGA told us that local authorities did not feel sufficiently involved in a collective health and social care response until 9 April, when Shared Services joined the procurement group.
- 1.11 Nonetheless, people we interviewed reported that collaboration and partnership working was much stronger than it had been during normal times. This collaboration was helped by already having a single public body responsible for supplying PPE to much of the NHS and existing networks and relationships between the Welsh Government, NHS bodies and local government. The position in Wales contrasts with the position in England. The NAO reported that prior to the pandemic many more organisations were involved and there was more distance between the government and the agencies responsible for procurement, supply and stock management, much of which was contracted to the private sector.

Public health guidance determined what PPE was needed and formed the basis of efforts to work out how much PPE would be required by health and social care







Guidance




- 1.12 Before the first UK case, public health authorities across the UK were working out PPE requirements. In January 2020, the four nations agreed that COVID-19 should be classified a High Consequence Infectious Disease (HCID). Guidance issued on 10 January 2020 set out infection controls, including the isolation of COVID-19 patients and use of PPE.

- 1.13 After reviewing emerging information, including the fatality rate, the virus was declassified from an HCID on 19 March 2020. As a result, the guidance changed from advising that anybody entering the room of an isolating patient wear a gown, long gloves, respirator masks (FFP3) and eye protection to tailoring the guidance to the setting, whether the patient was known or likely to have COVID-19 and what procedures were being undertaken.
- 1.14 The core infection prevention and control guidance are issued jointly by all four UK nations, although individual nations issue supplementary guidance where there are differences. Those developing the guidance, including representatives from Public Health Wales, have access to expert advice². In its July 2020 report, the Senedd Health, Social Care and Sport Committee reported some early uncertainty among providers about the guidance, notably in social care. It noted that updated guidance issued on 2 April 2020 had provided greater clarity.
- 1.15 **Exhibit 1** sets out the PPE requirements at the time of drafting this report. Overall, there have been over 30 changes to the guidance since it was first issued in January 2020. One key change came on 10 April 2020 when the guidance was updated to reflect that non-symptomatic patients could be contagious. The updated guidance provided more detailed information about what PPE should be worn by health and social care staff when treating all patients, not just confirmed or suspected COVID-19 patients. On 21 August 2020, the guidance was updated to include a COVID-19 risk pathway to support returning services.
- 1.16 On 17 April 2020, Public Health England issued separate guidance to allow for the re-use of PPE in the case of acute shortages until confirmation of adequate re-supply. The same day, Wales' Chief Medical Officer shared the English guidance with NHS and social care bodies in Wales but noted that he did not envisage re-use being needed in Wales. On 27 April, the Public Health England guidance on re-use of PPE was incorporated into the jointly issued UK infection prevention and control guidance.
- 1.17 By 3 May, the separate Public Health England guidance on re-use included a note from Public Health Wales (and the public health agencies of Scotland and Northern Ireland) stating that single use PPE should not be reused, and that reusable PPE should only be reprocessed in line with manufacturer instructions. This note was never included in the UK infection prevention and control guidance. The re-use section of the UK guidance was removed in August 2020.

2 Including from the Scientific Advisory Group on Emergencies (SAGE) and the New and Emerging Respiratory Virus Threats Advisory Group (NERVTAG).

Exhibit 1: PPE used to manage COVID-19

Type of PPE	Further detail
	<p>Aprons A single-use apron is used when providing direct care within two metres.</p>
	<p>Body bags Used by those managing the human remains of COVID-19-related deaths.</p>
	<p>Clinical waste bags Used across all health and care settings, at all times and for all patients or individuals, for the safe disposal of used PPE.</p>
	<p>Eye or face protectors These visors or safety spectacles are used during aerosol generating procedures and otherwise if blood and/or body fluid contamination to the eyes or face is likely.</p>
	<p>Face masks Non-fluid-resistant face masks (Type II masks) are used by health and care workers when entering a hospital or care setting. Fluid-resistant face masks (Type IIR masks), are used when delivering direct care within two metres of a suspected or confirmed COVID-19 case</p>
	<p>Gloves Worn during patient contact where there is a risk of exposure to body fluid.</p>

Type of PPE	Further detail
	<p>Gowns or coveralls</p> <p>Used (during aerosol generating procedures and otherwise) to withstand penetration by blood and/or body fluids when an apron provides inadequate cover for the task.</p>
	<p>Hand hygiene</p> <p>The use of alcohol-based hand rub is part of hand hygiene in all health and care settings, at all times and for all patients or individuals.</p>
	<p>Respirator masks</p> <p>Respirator masks are used to prevent inhalation of small airborne particles during an aerosol generating procedure.</p> <p>Respirator masks are known as a filtering face piece (FFP) mask. There are three categories of FFP mask (FFP1, FFP2, FFP3).</p> <p>FFP3 masks should be worn when performing an AGP. Workers should first be fit-tested for an FFP3 mask to ensure an adequate seal.</p> <p>In some circumstances FFP2 masks can be used as a safe alternative to FFP3 masks.</p>

Note: An aerosol generating procedure is a medical procedure that can result in the release of airborne particles (aerosols) from the respiratory tract.

Source: Based on NAO analysis of official guidance reported on page 15 in [The supply of personal protective equipment \(PPE\) during the COVID-19 pandemic](#), November 2020

Modelling

- 1.18 Initially, Shared Services worked with NHS bodies to obtain information on local stocks and estimate short-term demand. Each health board had its own systems for projecting demand and managing stocks. Local authorities came together to try to work out the demand for care homes and domiciliary care, but this proved difficult and early estimates of demand quickly grew as guidance on the use of PPE changed.
- 1.19 The Welsh Government secured support from a military logistics team. The team reported on 2 April 2020 recommending central modelling of demand. With help from the NHS Wales Finance Delivery Unit, Shared Services started to develop its working model, drawing on the rate of items being issued. This proved challenging as guidance and policy were changing during the first few weeks, for example to expand the scope of provision to optometrists and dentists. The analysts found it difficult to obtain reliable information on the number of primary care providers, staff and treatment sessions, the principal drivers of demand. Information on social care was also incomplete, especially for the large number of independent providers commissioned by local authorities. Shared Services obtained feedback and tested assumptions with NHS bodies. The WLGA and local authorities were involved in developing the demand model for social care.
- 1.20 Shared Services hired Deloitte in late April 2020 to review the modelling and suggest further improvements. Deloitte helped to develop a more detailed and formal supply and demand model, adding reporting functionality that Shared Services did not have the capacity to deliver and helping Shared Services staff develop their modelling skills. The model developed iteratively, with the final model (model 1) largely ready by late May with some further refinement in June. Shared Services, working with Deloitte, developed a second version (model 2) to incorporate the planned return of routine health services from August 2020. This resulted in an increase in projected demand that informed the PPE Winter Plan (**paragraph 1.36**) and stockpiling to carry health and social care through the winter.
- 1.21 The models were an important planning tool. Actual PPE distribution by Shared Services differed considerably from the projections for some items. In general, Shared Services issued to the NHS more stock than projected by model 1, but less stock than projected by model 2. However, this varied considerably by product. For example, Shared Services has issued more aprons than anticipated but fewer FFP3 respirators. In social care, the number of items issued was well below those projected under both models through to the end of 2020.

- 1.22 Shared Services highlighted a number of reasons for the variations in healthcare. The models are based on assumptions about the scale of activity and interaction with patients or residents, based on a reasonable worst-case scenario. Many routine face-to-face services that had been expected to resume from August 2020 did not do so as the second wave took hold, or they were replaced by remote consultations using video technology. Shared Services also identified increased staff sickness levels in health boards, and staff not using PPE in accordance with guidance, as factors.
- 1.23 In social care, the WLGA told us that some providers continued to use their established PPE suppliers to maintain contractual relationships, even after PPE funded by the Welsh Government was available. It is also possible that demand is less than expected due to staff re-using PPE that was intended for single use or using items for longer than recommended. In addition, we are aware of differences in policy between local authority areas. Some go beyond the guidance, for example requiring social care staff to wear visors where the client is not a confirmed or suspected COVID-19 case. Such departures from guidance impact on the amount of PPE required.

Shared Services responded quickly to meet increased demand for PPE, though stocks of some items were very low at times before the position stabilised from late April 2020

- 1.24 From mid-March 2020, Shared Services took on new staff to meet the operational and logistical challenges. At the time of drafting, it had hired 94 new members of staff and expanded its vehicle fleet, hiring 44 extra vehicles, to support deliveries. It expanded its use of existing warehouses, including a large warehouse that it had procured in January 2019 to store equipment in the event of a no-deal Brexit. Shared Services also secured additional logistical capacity by contracting with Welsh hauliers and securing around 10,000 cubic metres of storage space from the private sector, paying only for the space actually used.
- 1.25 The military logistics team supporting the Welsh Government (**paragraph 1.19**) identified in its 2 April 2020 report that national and regional storage distribution capacity was fit for purpose and there was sufficient capacity to meet demand. The military would not need to replace existing supply chain provision but could usefully support local stores to manage supplies effectively and step in if workforce resilience failed. The military did subsequently assist local stores, but Shared Services were able to handle logistics nationally, with the military assisting on occasions with urgent requirements, such as unloading gowns from a plane at Cardiff Airport.

1.26 Shared Services initially distributed stock from the PIPP stockpile on a 'push' basis, issuing standard packs of available stock to providers based on a broad estimate of their needs. The PIPP stockpile made a substantial contribution to PPE provision during March and April 2020, but this varied by product (**Exhibit 2**). As noted in **paragraph 1.4** the PIPP stockpile did not contain all of the items needed for a coronavirus pandemic.

Exhibit 2: quantity of Items in the PIPP stockpile in March 2020 and how long it lasted

Product category	Units in stock at the outset (1 March 2020)	How long it lasted (weeks from 9 March 2020)¹
Aprons	9,129,800	6.0
Eye protectors	3,144,000	10.0 ²
Type IIR masks	4,906,000	5.5
FFP3 respirators	870,000	10.9
Gloves (singles)	4,814,000	1.5
Hand sanitiser	37,326	4.3

Notes:

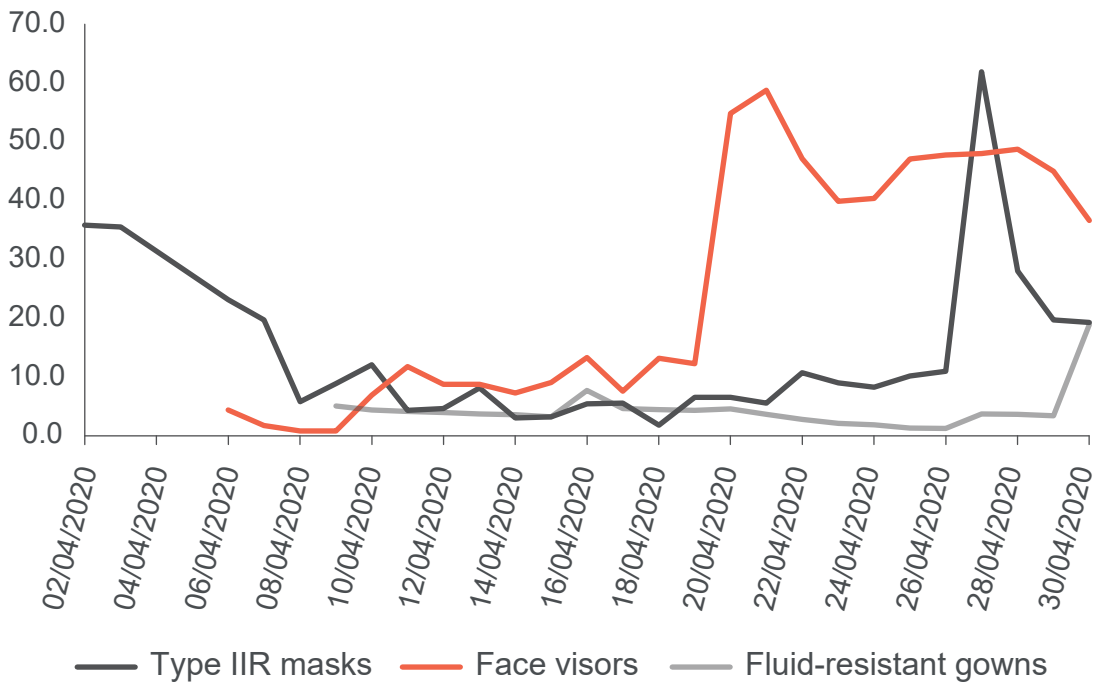
- 1 The length of time the stock lasted is based on actual distribution of stock by Shared Services to health and social care providers. Actual consumption by users may be different.
- 2 The PIPP stockpile included a type of safety glasses, procured by the UK Government, that were found by the Health and Safety Executive to not meet the required standards for splash protection. The Medicines and Healthcare products Regulatory Agency issued a safety alert for these products in May and around 25,000 glasses were subsequently destroyed by Shared Services.

Source: Audit Wales analysis of Shared Services data

1.27 PIPP stock levels declined as items were drawn down and deliveries from other sources were limited by supply shortages. Meanwhile, demand increased rapidly as Shared Services started to supply the independent primary health care and social care sectors as well as hospitals.

1.28 Pressures were particularly acute in April (**Exhibit 3**). There was less than a week's supply of Type IIR masks, face visors and fluid-resistant gowns in Shared Services' stock for much of the month. Type IIR masks almost ran out on 16 April, with stocks coming through on the day as part of mutual aid from Scotland and then as an order from China arrived. Supplies of fluid-resistant gowns were in perilously low supply, with less than two days of stock available at some points. Shared Services relied on an emergency delivery of fluid-resistant gowns around 20 April 2020 from England, and urgent action was taken to identify stocks held in local stores and hospitals. Shared Services did not have a comprehensive view of stocks held at local stores until the StockWatch system was established (**paragraph 1.41**).

Exhibit 3: days of Shared Services stock available for Type IIR Masks, face visors and fluid-resistant gowns, April 2020

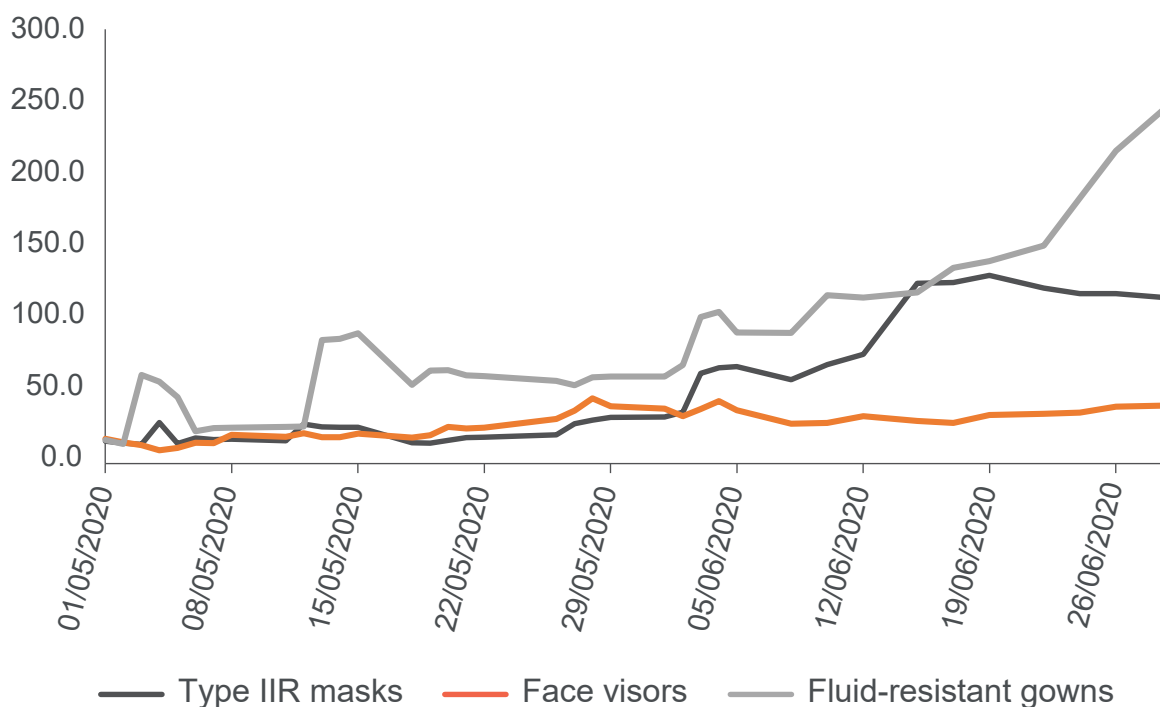


Note: days of Shared Services' stock remaining calculated using an average of previous 28-day issues. Lowest point for Type IIR Masks was 1.8 days on 18 April, for Face Visors was 0.8 days on 8 April, and for Fluid-Resistant Gowns was 1.2 on 26 April.

Source: Audit Wales analysis of Shared Services data

1.29 The situation gradually improved in late April 2020 and through May and June as stock from new suppliers started to be delivered (**Exhibit 4**). A delivery of 200,000 fluid-resistant gowns from Cambodia on 27 April (see case study in **Exhibit 10, page 39**), followed by larger deliveries from China in early May, enabled the Welsh Government to provide mutual aid to the other UK nations. Wales has ultimately provided more PPE items than it received³. The position on most items was stable by the end of May, with more than 14 days' worth of supply in central stocks for all items except gloves. By 20 July, following a delivery of gloves, there were more than 14 days' of supply for each item and all categories were classified as 'green' on Shared Services' risk rating system.

Exhibit 4: days of Shared Services stock available for Type IIR masks, face visors and fluid-resistant gowns, May to June 2020



Note: days of Shared Services stock remaining calculated using an average of previous 28-day issues.

Source: Audit Wales analysis of Shared Services data

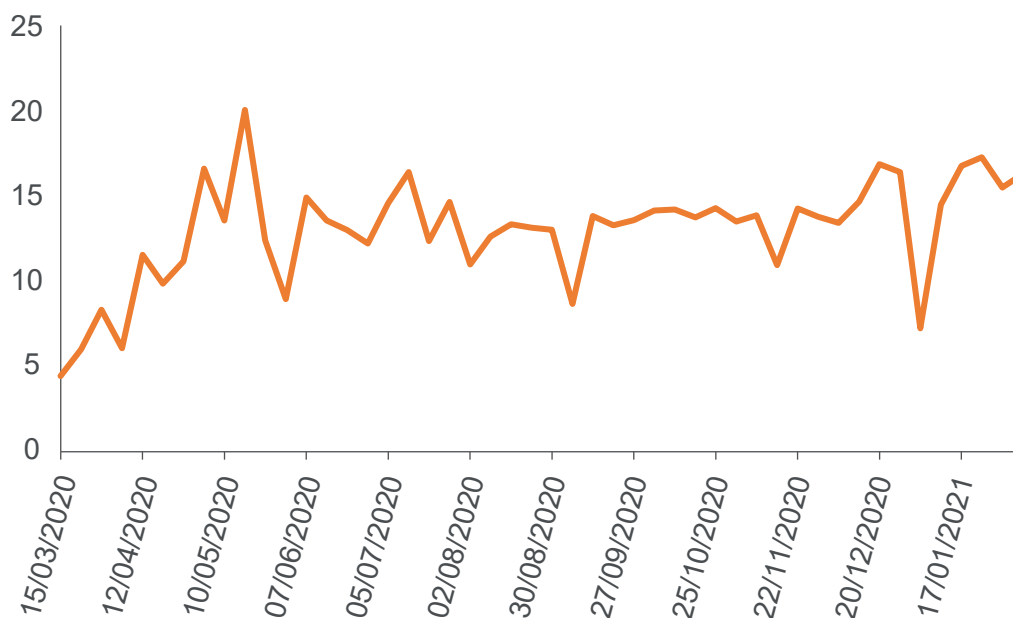
3 Shared Services reports that, since the start of April 2020, it has issued 13.8 million items of mutual aid to other UK nations and received 1.4 million items on request from Scotland and Northern Ireland. In addition, it has received around 3.3 million items from the UK Government to replenish the PIPP stocks. Shared Services also entered into contracts to provide £37.5 million of PPE for other UK nations (**paragraph 2.42**).

- 1.30 Shared Services has gradually shifted to a 'pull' system of supply. Rather than standard packages or deliveries based on available stock, providers can specify what they need. This shift happened relatively quickly for NHS providers, in August for local government and in September for primary care. The 'pull system' means Shared Services has a better understanding of demand and providers are better able to get what they need and avoid having an oversupply that they need to store locally.
- 1.31 Shared Services' stock data shows that it did not run out of stock for any item of PPE during the pandemic. We have not sought to check the levels of local stocks nor whether PPE was reused locally. Shared Services told us that NHS bodies were always kept supplied with sufficient stock to meet the requirements of the guidance. The minutes of the executive leads group (**paragraph 1.8**) showed that no NHS body reported that it had run out of PPE. The minutes reflect the concerns about low stocks detailed above and that at times there was mutual aid between health boards.
- 1.32 The Senedd Health, Social Care and Sport Committee highlighted the significant difficulties that the social care sector faced in meeting PPE requirements in the early stages. Notes from the local government working group on procurement (**paragraph 1.10**) confirm this picture. The group expressed serious concerns about the developing situation in late March 2020 and early April, including concerns about a lack of information on the availability of stock, the clarity of guidance and very low stocks of key items including hand sanitiser and masks.
- 1.33 By 6 April 2020, the group felt that the sector was in a crisis. At this stage, Shared Services was only responsible for supplying social care providers with PPE where they were unable to secure their own. Councils and private care homes were primarily securing PPE for themselves individually or as part of regional arrangements. However, the Welsh Government tasked Shared Services with supplying social care more widely and supplies started to increase. These were essential in maintaining a basic level of supply.

1.34 The situation improved, with the group reporting that by 7 May 2020 around two-thirds of the social care sector’s needs were being met by Shared Services. The WLGA and Shared Services adopted a service level agreement on 1 September 2020 under which Shared Services would make weekly deliveries to local stores based on councils’ estimated requirements. The change from Shared Services acting as a supplier of last resort to supplying most of social care’s needs was not formally communicated to social care until 12 October. However, a shift in policy towards supplying social care providers’ needs on demand occurred much earlier, in April 2020, and was communicated informally to providers through the WLGA and local authorities. While some independent providers preferred to maintain contracts with existing PPE suppliers, it appears that most needs are now being met by Shared Services.

1.35 Between 9 March 2020 and 2 February 2021, Shared Services distributed around 630 million items of PPE to health and social care. **Exhibit 5** shows that the amount distributed ramped up between March and June before becoming more stable. Over the period April 2020 to January 2021 around half of the PPE issued by Shared Services was for social care.

Exhibit 5: weekly distribution of PPE items by Shared Services, 9 March 2020 to 7 February 2021 (millions of items)



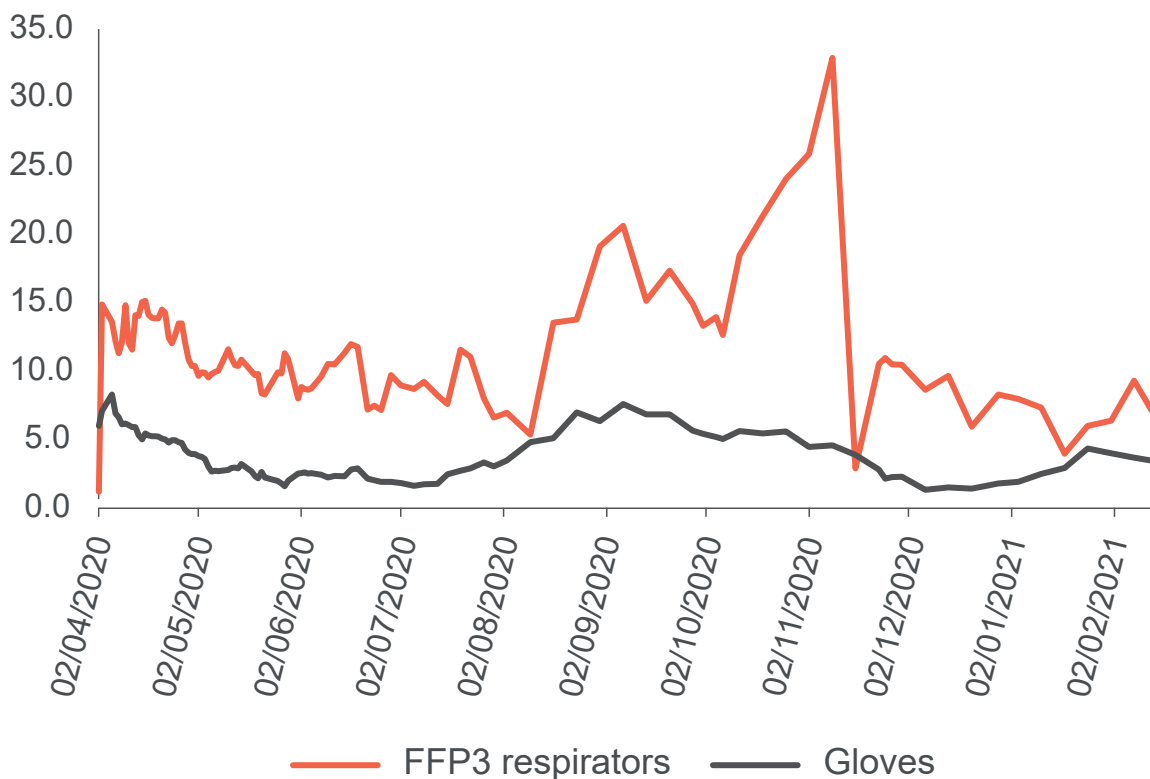
Source: Welsh Government, [Weekly Personal Protective Equipment issues: up to 7 February 2021](#), released 11 February 2021

Shared Services has built up a buffer of PPE stock but the goal of 24-weeks' worth has not been met for all items

- 1.36 In July 2020, the Senedd Health, Social Care and Sport Committee recommended that the Welsh Government publish a strategy for securing a resilient PPE supply, including a plan for stockpiling. The Welsh Government accepted the recommendation. Shared Services' Winter Plan for PPE, agreed by the Welsh Government, involved building up a 24-week buffer of key items. Shared Services and the Welsh Government are in the process of reviewing the Plan and the 24-week target (**paragraph 2.46**).
- 1.37 For most items Shared Services was able to build up a 24-week buffer. For some items Shared Services' data shows several years of stock, although this may reflect the way that future demand is calculated⁴. **Appendix 3** sets out in detail the position on levels of stock issued and held nationally (excluding local stocks).
- 1.38 However, for some items there has never been a 24-week buffer. Through the second wave of the pandemic some stocks have declined significantly – in particular, FFP3 respirators and nitrile gloves (**Exhibit 6**). These two items have proved difficult to source.
- 1.39 In the case of nitrile gloves there are very few manufacturers, mostly located in Malaysia where the rubber needed to make them is grown. Shared Services reported that the state of emergency declared in Malaysia in January 2021 due to COVID-19 has hampered recent supplies. For FFP3 respirators, the issue is with a particular brand of mask which clinicians' favour. Shared Services told us that the manufacturer had refocused its efforts on FFP2 respirators, which had contributed to a global shortage and slippage in expected delivery dates.
- 1.40 At the time of drafting, Shared Services was awaiting delivery of large orders of FFP3 respirators and gloves. Shared Services calculates that these deliveries will take stock levels of these items to over 24 weeks. In the meantime, Shared Services has procured small amounts of these items to keep supply stable. However, the WLGA told us that while gloves are available, there is a shortage of specific sizes.

4 We have projected how long stock will last based on a combination of modelled and actual draw down over the previous 28 days. For some items, such as body bags, stock is sent out in a batch that lasts for several weeks. By basing the projections on recent supply, it can look like the stock will last longer than is the case and these projections then change when the next batch is sent out.

Exhibit 6: weeks of Shared Services’ stocks of FFP3 respirators and nitrile gloves held, 2 April 2020 to 8 February 2021



Note: weeks of Shared Services’ stock remaining calculated using an average of previous 28-day issues. The lowest point for FFP3 respirators was 1.2 weeks on 2 April and for gloves was 1.3 weeks on 7 December.

Source: Audit Wales analysis of Shared Services data

1.41 Systems for monitoring stock have improved over time. Shared Services’ systems came under strain as stocks arrived from the PIPP stockpile, new purchases and as mutual aid, sometimes unexpectedly. The volume of stock and activity was far higher than before the pandemic. In response to the report of the military logistics team (**paragraph 1.25**), Shared Services introduced a StockWatch system for local stores to report weekly on their stock holdings for each item. However, Shared Services told us that local authorities do not always report information on a timely basis.

1.42 The WLGA told us that some councils question the value of StockWatch for social care. Local authorities' joint equipment stores hold minimal stocks of PPE, with most of it being sent to providers as soon as it arrives. StockWatch does not record stocks held by social care providers and is not integrated with local authorities' stock management systems. Notwithstanding these issues, Shared Services considers the information from StockWatch is valuable in helping it supply PPE to social care.

Confidence in the supply of PPE seemed to increase following the initial response but there remain concerns about specific items and some equality issues

Staff and social care providers' views

- 1.43 The Senedd Health, Social Care and Sport Committee heard evidence from representative groups and noted 'the fears and concerns of frontline staff about the availability of appropriate PPE' during the initial response. We invited organisations that gave evidence to the Committee to provide any updates for us to consider. We received further Wales-only survey evidence from the Royal College of Nursing (RCN), who surveyed nurses working in health and social care, and the British Medical Association (BMA). As the participants were self-selecting, rather than a random sample, we cannot know how representative these experiences are of the whole NHS and social care workforce.
- 1.44 While the overall number of respondents fell significantly, the RCN data suggested some improvement between April and May 2020 in the percentage who said they had sufficient supplies of different types of PPE. However, a significant minority of respondents still identified concerns, particularly in response to questions about FFP3 respirators and gowns in the context of high-risk procedures, such as aerosol generating procedures (**Exhibit 7**). Staff perceptions of PPE may have reflected their experiences of distribution within local sites rather than the national picture on stock levels.

Exhibit 7: RCN survey respondents who said they had sufficient supplies of each type of PPE, April and May 2020

PPE Type	April	May
Eye protection	52%	85%
Type IIR masks	46%	80%
Apron	90%	96%
Gloves	94%	96%
FFP3 respirators	63%	79%
Long-sleeved gowns	57%	67%

Note: the RCN received 875 and 292 responses from Wales in April and May respectively. The RCN only asked respondents about FFP3 respirators and gowns within the context of high-risk procedures, such as aerosol generating procedures.

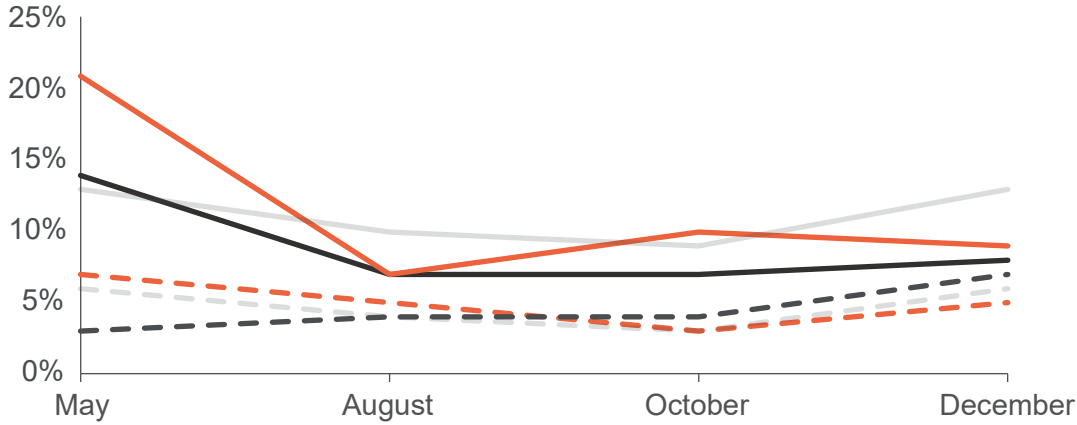
Source: RCN member surveys

- 1.45 The BMA asked its survey respondents to identify areas of concern from a list of different issues. Those identifying PPE shortages as a concern dropped from 38% to 13% between May and December 2020⁵. However, when asked about specific types of PPE, BMA respondents' perceptions of PPE levels is mixed.
- 1.46 For several items, very few or no respondents said there was no supply at all (**Exhibit 8**). However, the proportion highlighting shortages increased for most items in December 2020. Concerns about shortages of gloves in December 2020 may reflect the fact that these have been challenging to source (**paragraph 1.38**). However, it is unclear why there would be an increase in concerns about supply of fluid-repellent (Type IIR) masks, eye protection and aprons given the levels of national stock of these items at the time. In its report (**paragraph 1.25**), the military said that some perceptions of supply could be due to a lack of sight of available stocks.

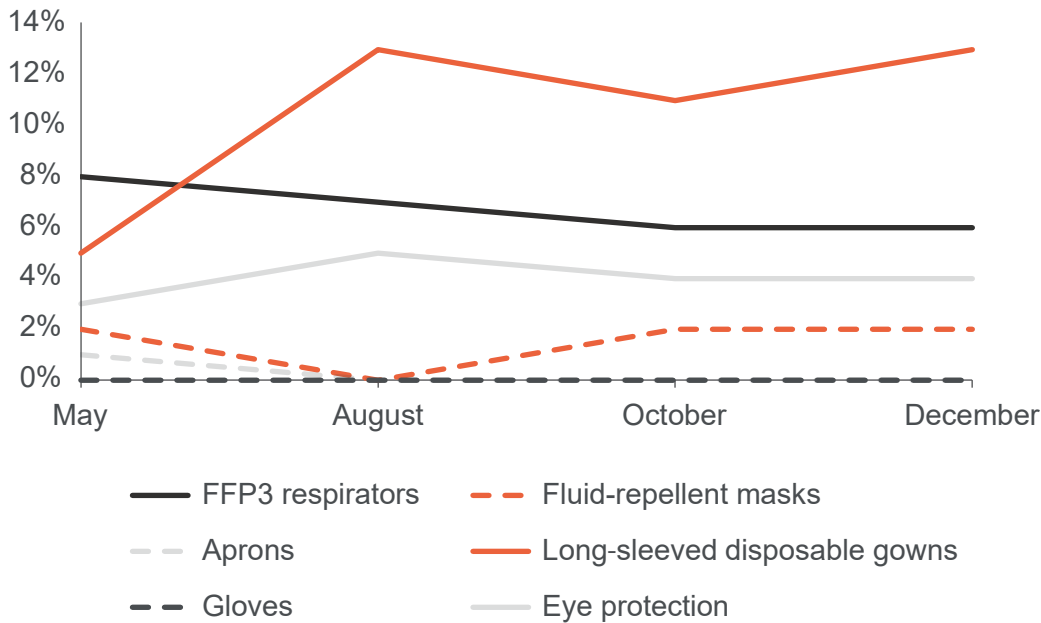
5 The question asked respondents to choose from a list of possible concerns over the next few months. They were able to choose as many options as they wanted, including 'PPE shortages'.

Exhibit 8: BMA survey respondents who said they had shortages or no supply of each type of PPE, May to December 2020

Shortages



No supply at all



Note: response numbers varied between 463 in May, 258 in August, 492 in October, and 505 in December. The survey asked: 'Over the last two weeks, have you had adequate NHS supplies or shortages of the following PPE?'. Respondents could answer 'adequate', 'shortages', 'no supply at all', 'don't know', or 'not relevant'. In some cases, the 'not relevant' response was as high as 27% and was consistently around 25% for those responding to the questions on FFP3 respirators and long-sleeved gowns.

Source: BMA COVID-19 PPE surveys

- 1.47 A key concern of staff reflected in the BMA survey has been the availability of FFP3 respirators and long-sleeved disposable gowns. These items are required by the guidance for higher risk aerosol generating procedures. It is hard to be sure to what extent staff concerns are about a lack of supply of required PPE or the guidance itself. The RCN and BMA survey findings in relation to FFP3 respirators and gowns also reflect wider concerns with the level of PPE required by the guidance. The BMA has expressed concern about revisions to guidance around gowns and FFP3 respirators when COVID-19 was downgraded from a High Consequence Infectious Disease in March 2020 (**paragraphs 1.12-1.13**).
- 1.48 In its February 2021 survey⁶, the BMA found that just 37% (166 of 488) of respondents in Wales said they are currently provided with adequate PPE for non-aerosol generating procedures, while 44% said they did not feel it was adequate. In response to a question about what PPE would help them to feel safe in non-aerosol generating procedures, 88% said FFP3 respirators would help, while 45% said that long-sleeved disposable gowns would help. Neither of these items are required by guidance for non-aerosol generating procedures.
- 1.49 Evidence provided by the WLGA records some deep concerns that social care workers felt their PPE was inadequate. The contemporaneous notes of meetings of heads of procurement (**paragraph 1.10**) in the middle of May 2020 record that social care staff felt unprotected with 'just a flimsy apron over street clothes'. Again, these concerns seem to reflect concerns with the nature of PPE required by guidance rather than the level of supply. Care Inspectorate Wales' surveys show social care providers' views improving during April 2020. In the first two weeks 11% of care home providers and 18% of domiciliary care providers said they had insufficient PPE. By the second half of April those figures fell to 5% and 8% respectively.
- 1.50 We are also aware that some health and care staff had concerns about the quality of some certified PPE. These were few in number relative to the overall volume of PPE supplied by Shared Services. The safety glasses that were held in the PIPP stockpile were unpopular, in part because they needed to be manually assembled, and were subsequently withdrawn for other reasons (see note to **Exhibit 2**). There were also complaints from staff about skin irritation caused by face masks, but these did not indicate non-compliance with product safety standards. There was also an isolated issue with a batch of nitrile gloves that were prone to tearing when putting on. These were mislabelled as nitrile gloves and were a vinyl mix that had not been ordered. Shared Services reported the issue to the Medical and Healthcare products Regulation Authority, and the contractor replaced the batch of 16 million gloves with the correct specification.

6 The BMA provided us with early sight of part of its February 2021 survey, but we had not seen the full dataset at the time of drafting.

Equality

- 1.51 Staff and representative groups have raised the issue of feeling inadequately protected due to PPE generally being designed for generic male physiques. This issue has been identified as a concern long before the start of the pandemic. Early in the pandemic, an issue was identified with the fit of a particular type of mask. Cardiff and Vale University Health Board identified a method to improve the fit and reduce fit-test failures. It shared a video across NHS Wales to help improve the fit of the masks for a wider range of healthcare staff. The use of fit test machines also lowered failure rates.
- 1.52 The Welsh Government and Shared Services are aware of these concerns about the fit of PPE for certain groups. They told us that there are several manufacturers, including a manufacturer in Wales, developing products with potential to offer a more bespoke fit for different face and body types. However, as far as they are aware these items are yet to secure full certification.
- 1.53 Equality concerns have also been raised by groups who have identified that being unable to see a carer's face is to the detriment of some care. The use of clear face masks has been suggested. However, the leading design purchased by the UK Government, on behalf of all UK nations, is not yet certified as PPE so can only be used where a user has undertaken a risk assessment and in line with Health Safety Executive guidance.

Cases and deaths

- 1.54 There have been several COVID-19 outbreaks in Welsh hospitals⁷, but we do not have evidence to establish a casual link between these outbreaks and PPE. Some health boards have reviewed the factors contributing to individual outbreaks, including potential links to staff compliance with PPE. Further work would be needed to fully understand any role that PPE, as part of overall infection prevention and control measures, may have played.

7 Public Health Wales publishes data on the number of 'probably' and 'definite' cases of hospital transmission on its [COVID-19 data website](#).

- 1.55 Many health and care staff have contracted COVID-19, and sadly some of those people have died. There is published Office for National Statistics data⁸ on cases and deaths generally and the Health and Safety Executive has provided us with data on notifications it has received⁹. However, there are various limitations noted with the data in both cases and care needs to be taken when interpreting the findings. We do not have hard evidence that any of these cases or deaths were caused by occupational exposure, or more specifically by a shortage of suitable PPE.
- 1.56 We did not examine these issues and any possible root causes in more detail as part of our work. The Welsh Government has emphasised to us that NHS Wales has well-established processes to ensure that staff and patient deaths are appropriately reported, fully investigated and where appropriate referred to the coroner. It is from these processes that it and NHS Wales will gain evidence on any potential systemic failures, including in the supply or use of PPE, that have resulted in work-related deaths from COVID-19. In its February 2021 report, the UK Public Accounts Committee recommended that the UK Government carry out a review into whether there are any links between PPE shortages and staff infections and deaths.

8 Office for National Statistics data shows that 23 social care workers and 34 NHS workers died of COVID-19 in Wales between 9 March and 28 December 2020. The analysis does not prove conclusively that rates of death involving COVID-19 are necessarily caused by differences in occupational exposure. Office for National Statistics, [Deaths involving the coronavirus \(COVID-19\) among health and social care workers in England and Wales, deaths registered between 9 March and 28 December 2020](#), released 28 January 2021.

9 Under the Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 2013 (RIDDOR), employers have a duty to report to the Health and Safety Executive (HSE) cases where a worker has been diagnosed as having COVID-19 and there is reasonable evidence to suggest that it was caused by occupational exposure for whatever reason. Of 1,696 notifications for Wales between 10 April 2020 and 9 January 2021, 1,156 related to human health and social work activities. Among the 1,696 were 11 fatal notifications, of which seven related to human health and social work. The HSE has made clear in its [Technical summary of data on Coronavirus \(COVID-19\) disease reports](#) that there are a number of limitations that should be kept in mind when considering this data and its accuracy.



Procurement of PPE

02

- 2.1 This part of the report examines the work led by Shared Services to procure PPE. In March 2020, the Welsh Government chose to adopt the UK Cabinet Office's Procurement Policy Note 01/20¹⁰. The Policy Note permits, under regulation 32(2)(c) of the Public Contract Regulations 2015, procurement of goods, services and works without competition or advertising so long as there are genuine reasons for extreme urgency. This meant Welsh public services were able to procure PPE without going through the usual competitive processes. The Welsh Government also adopted Procurement Policy Note 02/20¹¹, allowing advance payments where a value for money case is made. Any payments up front exceeding 25% of the contract value require Welsh Government approval.
- 2.2 During March 2020 and through April, Shared Services undertook its own procurement of PPE as did local government bodies for social care. At this point, the procurement was 'at risk' with no guarantee of any UK Government funding cover. In mid-June 2020, the UK Government confirmed to the Welsh Government that it would get funding to procure PPE via the Barnett formula¹².

Public services worked together in an increasingly collaborative way to identify and respond to potential PPE suppliers

- 2.3 In the early days of the pandemic, many local organisations came forwards with offers to supply PPE. The Welsh Government appointed Life Sciences Hub Wales (LSHW) in a facilitation role to collate all offers of support to health and social care and identify appropriate businesses who could potentially supply items on NHS Wales' critical products list.
- 2.4 LSHW established an online portal for industry to upload offers of support. Using guidance provided by Shared Services' Surgical Materials Testing Laboratory (SMTL) and the National Procurement Service (NPS), LSHW reviewed submissions from suppliers wanting to sell PPE and other products and services. These reviews included ensuring conformity with quality requirements and some standard business checks. Qualified offers of products were forwarded to Shared Services to progress offers into the procurement process.
- 2.5 LSHW also received, and directed to NHS Wales organisations, enquiries relating to donations of other products and services. Enquiries relating to field hospitals, the production of wearable products, and volunteering by healthcare workers and the general public were referred by LSHW to the appropriate bodies.

10 UK Government Cabinet Office, [Procurement Policy Note - Responding to COVID-19, Information Note PPN 01/20](#), March 2020

11 UK Government Cabinet Office, [Procurement Policy Note - Supplier relief due to coronavirus \(COVID-19\), Action Note PPN 02/20](#), March 2020

12 The Barnett Formula determines how decisions to increase or reduce spending in England result in changes to the budgets of the devolved administrations.

2.6 As at 26 October 2020, LSHW had managed 2,285 enquiries, referring 556 to the NHS, Welsh Government and other relevant organisations (**Exhibit 9**). Three-quarters of enquiries triaged but not progressed by LSHW were for reasons such as incomplete documentation received, failure to pass initial due diligence, and products and processes falling out of scope and not on the critical products list.

Exhibit 9: offers of products and services in response to COVID-19 referred by Life Sciences Hub Wales

Product type	Organisation receiving referral	Number of referrals
Infection control (including PPE) and medical devices	Shared Services	226
Digital solutions	Welsh Government Digital Health Cell	165
Point of care and testing	Public Health Wales	22
Other	Industry Wales, Welsh Government and others	143
Total		556

Source: Life Sciences Hub Wales

2.7 The Critical Equipment Requirement Engineering Team (CERET), established by the Welsh Government in March 2020, works closely with Welsh manufacturers who indicated that they could potentially expand into manufacturing PPE with some support. CERET worked with Business Wales to invite expressions of interest, with Business Wales reporting the following results:

- over 30 companies have repurposed their production lines to provide hand sanitiser
- 25 companies have repurposed their production lines to make face visors
- there are now 9 companies who have invested in machinery to produce clinical grade face masks and face coverings, five of these companies can now mass produce although they are yet to win contracts to supply the NHS (**paragraph 2.48**)

- 2.8 Shared Services faced the challenge of fragmented global supply chains, due to countries imposing export restrictions and huge demand as the pandemic took hold across the world. Many existing suppliers were unable to supply PPE in the volume and at the pace required. Shared Services therefore had to source PPE using their network of contacts, through suppliers getting in touch themselves and through other referrals. In some cases, Shared Services told us they had to work with agents who had the right contacts with the key manufacturers. In at least one case, this meant sourcing products directly from a factory that was supplying the global companies that Shared Services had been unable to source PPE from.
- 2.9 Shared Services and the Welsh Government report that they have never had an equivalent to the twin-track 'high priority lane' approach to identifying potential suppliers described by the NAO in its report on government procurement in England during the COVID-19 pandemic. In our review of procurement documentation, we found no evidence of such an approach or of suppliers getting preferential treatment because of the person referring them.
- 2.10 Shared Services and LSHW told us that referrals from politicians were subject to the same process, scrutiny and prioritisation as any other contacts. In our sample testing we did not see reference to any referrals being from politicians. We found one example where one of the directors of a supplier was known to a member of the group set up by Shared Services to scrutinise requests for orders to be raised. This was appropriately declared in the advice for decision makers.

Overall, the Welsh Government and Shared Services developed good arrangements to manage the risks involved in procuring PPE in a fragmented market but did not publish details of all contracts on time

Timeliness risks

- 2.11 The challenging situation with stocks, especially in the early weeks of the pandemic (**paragraphs 1.27 to 1.29**), meant that Shared Services was under significant pressure to procure PPE very quickly. While recognising the importance of timely decision making, the Welsh Government set out in a 30 March 2020 letter to NHS bodies that it still expected good governance around spending decisions. The letter recognised the need to adapt arrangements on an interim basis and included guidance on financial management and reporting, including expectations related to being clear on delegating authority for decision making and recording decisions and the supporting rationale.
- 2.12 To speed up decision making, the Board of Velindre University NHS Trust agreed changes to its own and Shared Services' schemes of delegation. On 18 March 2020, these were amended to allow the Chair and Managing Director of Shared Services to authorise expenditure up-to £2 million (up from £100,000), with the limit increased to £5 million on 30 March 2020. All approvals over these limits needed to go through the Board of Velindre University NHS Trust. In addition, the requirement for Welsh Government approval for expenditure over £1 million has stayed in place throughout.
- 2.13 Overall, the arrangements enabled Shared Services to make swift decisions and supply PPE quickly. We understand this was achieved within the pre-existing staff capacity. We recognise that this placed significant pressure on individuals involved, who have been working late at night and in the early hours of the morning to deal with suppliers overseas and to take calls from worried frontline staff. We saw evidence of the Board of Velindre University NHS Trust and the Welsh Government responding promptly to turn around approvals and avoid delays. **Exhibit 10** provides a case study showing the rapid timescales and collaboration involved in procuring PPE.

Exhibit 10: timeline of procurement and supply of surgical gowns from Cambodia, April 2020

April 22

19:50 lead comes into Shared Services from a company in Northern Ireland on potential supply of gowns from Cambodia. Within an hour, Shared Services has sought in principle approval from the Welsh Government, subject to due diligence which was underway.



April 24

Shared Services charts a plane from Cambodia to Cardiff Airport.



April 26

Shared Services agrees with Cardiff Airport a payment mechanism for freight handling staff to come off furlough and requests military support to unload the plane.



April 21

Minister for Health and Social Services tells press conference Wales has just days of full PPE.

April 23

Before 08:00 Welsh Government gives in-principal approval.

11:30 FGG meets to scrutinise documentation and requests further checks on company and to negotiate on advance payment and price.

13:30 Shared Services meets virtually with the company directors to discuss issues, including price, and understand company structure and background.

15:00 FGG provided with updated position, including reduced price and advance payment.

16:00 Surgical Materials Testing Laboratory confirms the products have the correct certification.

April 25

Shared Services receives confirmation that the gowns have been manufactured and are on trucks in Cambodia. Shared Services becomes aware that freight-handling staff at Cardiff Airport are on furlough.

April 27

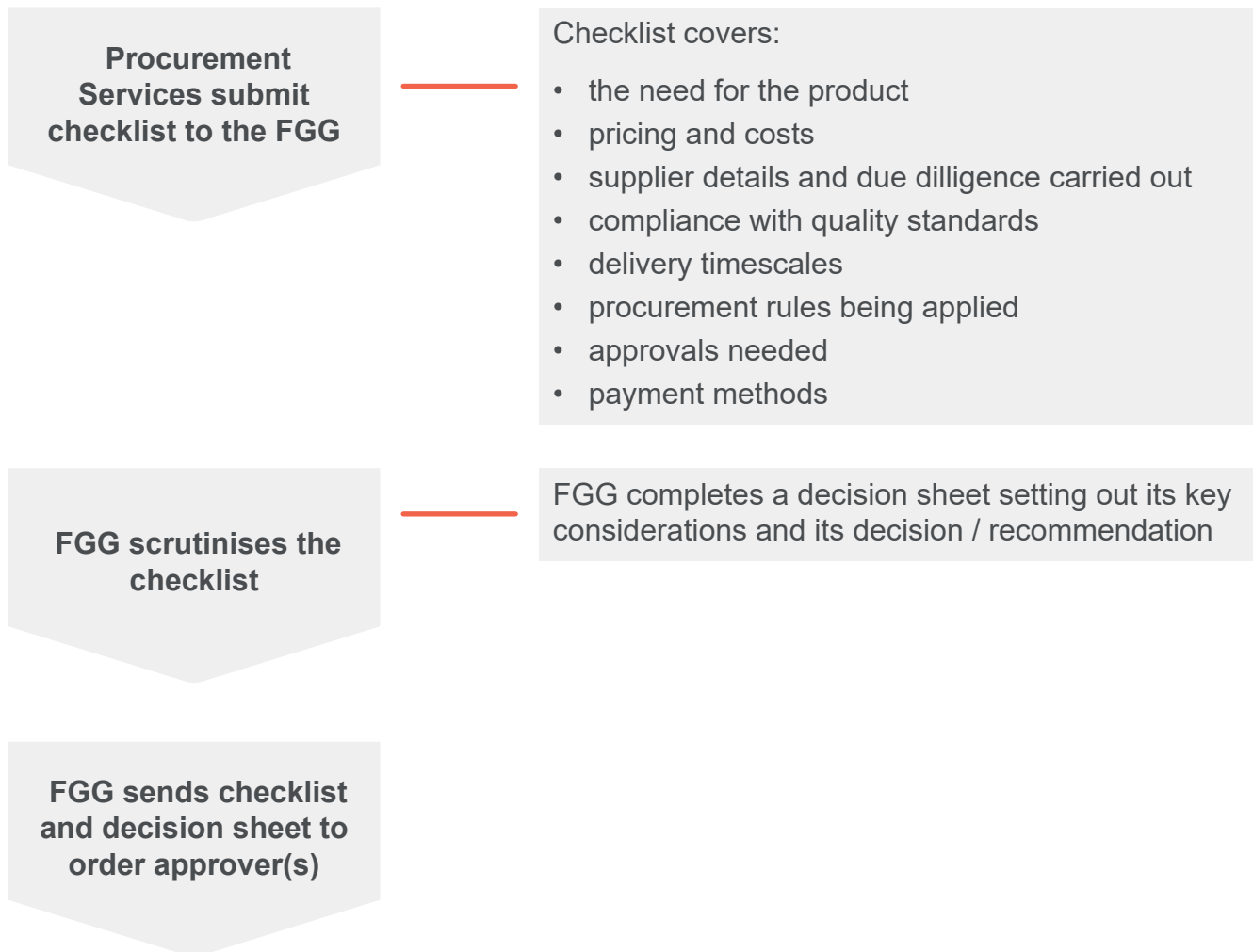
Gowns arrive at Cardiff Airport. The military, Shared Services and Cardiff Airport staff and others are involved in unloading. Some go to the central stores; some are distributed directly to Welsh hospitals and some are sent as mutual aid to other parts of the UK.

Financial risks

- 2.14 Seeking to urgently procure scarce PPE in a fragmented and highly competitive global market posed significant financial risks. Many of the companies offering PPE were either new or had recently expanded into PPE and had limited track records. There were significant risks of fraudulent activity. And there were novel financial requirements, most notably a requirement from many companies for payment in advance.
- 2.15 Shared Services set up a new cross-profession Finance Governance Group (FGG) in early April 2020 to manage risks while enabling rapid decision making related to COVID-19 procurement. **Appendix 2** sets out the membership of the FGG which also included members of the Board of Velindre University NHS Trust. FGG meetings consider potential contracts for PPE that either or both:
- a need Welsh Government support for the advance payment because it is 25% or more of the value of the contract (**paragraph 2.1**).
 - b need formal approval from the Board of Velindre University NHS Trust.

The group's role is to ensure appropriate scrutiny and checks before requests for orders to be raised are sent for approval (**Exhibit 11**).

Exhibit 11: role of the Finance Governance Group in the contract approval process



Source: Audit Wales review

2.16 We reviewed the checks put in place on a sample of 16 contracts let by Shared Services. Our sample included the larger/more risky contracts reviewed by the FGG as well as some smaller contracts not covered (**Appendix 1**). We found that in all cases there was a documented evidence trail, picking out the key issues and risks and how they would be managed. All the decisions we reviewed had been made in line with the required processes, and the subsequent approvals of the orders were in line with Shared Services' scheme of delegation and Welsh Government requirements.

- 2.17 The pressure of securing PPE meant due diligence could not always be carried out to the level it would outside of a pandemic in a normal competitive tendering process. However, for each contract we reviewed, we found evidence of key due diligence checks being carried out. These included background checks on the companies involved. In some cases, the companies looked like they were entirely new to the PPE market. However, further exploration showed that they had a sister company or were part of a group with experience in the PPE market. In other cases, the companies were new, but the Directors involved had credible direct access to PPE manufacturers.
- 2.18 Our findings on approvals confirm those of an internal audit review of Shared Services' financial governance, including PPE and other COVID-19 related expenditure, reported in October 2020. It found that the procedures around background checks, approvals and recording of decisions that the Welsh Government and NHS had put in place were complied with in all cases. It also noted that there were improvements to the financial governance arrangements and quality of documentation over the period.
- 2.19 The FGG monitors orders that involve advance payments to ensure the products are received. Nine orders reviewed by the FGG had advance payments made through an 'escrow' account. Shared Services and Welsh Government told us that this approach was used for large volume contracts or with new higher risk suppliers. The arrangements meant that the suppliers could see that the funding was in place but could not draw down the money until the goods were received and checked.
- 2.20 Shared Services cancelled four orders involving advance payments that had been reviewed by the FGG. Two of these advance payments had been made through an 'escrow' account. Refunds were received in full for three orders and for one order the advance payment was transferred to another order with the same supplier.
- 2.21 Despite the urgency, there was not a blanket approach of buying PPE whatever the cost. Inevitably, in what was in effect a seller's market, prices were higher (**paragraph 2.44**). We saw an example where Shared Services recorded that it had prioritised a slightly more expensive provider over a cheaper one, because it could supply more quickly. Nonetheless, we saw examples where Shared Services negotiated down the price. For one order, a unit glove cost negotiated to two-thirds of a unit cost offered by a different supplier avoided expenditure of £6.5 million. Shared Services also avoided costs by negotiating transport of PPE freight by sea and not air for some orders.

- 2.22 Benchmarking data presented to the FGG, including historic data and data from other parts of the UK, set parameters for what Shared Services was willing to pay. Shared Services did not proceed with one contract where it had later been able to source the same PPE at a lower price.
- 2.23 As at the end of December 2020 the FGG had reviewed 43 proposed contracts, nearly all of which related to PPE. There were a further four contracts which were entered into in late March and very early April 2020 before the FGG was established. There were also a further four contracts that should have been, but were not, subject to review by the FGG. Shared Services Internal Audit reported that appropriate authorisation was in place for each contract order. Some of the contracts considered did not proceed or were subsequently cancelled.
- 2.24 As of January 2021, a total of 37 orders related to PPE that had either been through FGG or should have been¹³, had been delivered, or were expected to be delivered. Of those 37 orders, 16 were with existing suppliers and 21 with companies new to Shared Services. Around half of the orders with new suppliers came from companies new to the PPE market, six of which were with the same new supplier.

Quality risks

- 2.25 There were widespread concerns, particularly at the start of the pandemic, that there were unscrupulous traders offering bogus PPE. PPE must meet strict certification standards. Shared Services Procurement Services worked closely with the SMTL, based in Bridgend, to test the quality of PPE. For some orders, this meant verifying that the certification provided was authentic. We understand that SMTL identified 37 fraudulent certificates being offered by potential suppliers. In some cases, SMTL carried out tests on a sample of the product. SMTL also worked closely with domestic manufacturers to help them secure certification.
- 2.26 As noted in **paragraph 2.19**, Shared Services had protection from losing advance payment where the PPE was not certified as described. There were two examples where proposed orders presented to the FGG were not proceeded with because the PPE did not meet the quality requirements. Other than the isolated example of mislabelled gloves (**paragraph 1.50**), we saw no evidence of examples, like those described by the NAO in England, where PPE was purchased centrally that was not deemed fit for purpose.

13 These 37 include the four orders let before the FGG started to meet. We chose to analyse this sub-set of 37 orders rather than all orders as they comprise most of the expenditure on PPE and exclude many smaller, lower risk contracts.

2.27 Contemporaneous notes kept by the WLGA record that local government bodies had purchased some PPE with fraudulent certificates in the early stages of the pandemic and that some of this had probably been used by frontline staff. These purchases were outside of the quality checking process put in place by Shared Services. We have not sought to verify the volume and nature of these purchases nor how local government bodies managed the risks.

Transparency risks

2.28 In the absence of transparent competition, public bodies can maintain public confidence by openly reporting details of contracts let under emergency powers. The Cabinet Office's Procurement Policy Note (**paragraph 2.1**) sets out that a contract award notice should be published within 30 days of a direct contract being awarded. In Wales, contract awards above the relevant thresholds set out in the UK Public Contracts Regulations 2015 are published on the Welsh Government's Sell2Wales website. Before the end of the Brexit Transition Period, Sell2Wales automatically published award notices to the online version of the Official Journal of the European Union (Tenders Electronic Daily). Sell2Wales now publishes them on the Find a Tender Service, the new UK e-notification service.

2.29 All 16 of the contracts covered in our sample testing of expenditure were direct awards due to extreme urgency. Shared Services has published full contract award notices for nine. Of the remaining seven:

- five contracts involved the same intermediary. For four of these, Shared Services published contract award notices covering the fees of the agents for a range of services but not the separate contract for the PPE items. Shared Services told us the contracts were with non-EU manufacturers and therefore it did not need to publish a contract award notice. We could find no such exemption in the relevant regulations or guidance. For one of the contracts, Shared Services published a contract award notice, but it was drafted as though the intermediary had provided the PPE and did not refer to the separate contract Shared Services had agreed with the manufacturer.
- for one contract, Shared Services published a different type of notification - a Voluntary Ex-Ante Transparency Notice (VEAT)¹⁴ - but not a full contract award notification. Shared Services told us that because it published a VEAT, it did not need to publish a full contract award notice. We could find no such exemption in the relevant regulations or guidance.
- the final contract involved air travel sourced through the military and English NHS. Shared Services told us it did not need to publish a notification for this contract.

2.30 Of the nine full contract award notices published in our sample, none were published within 30 days of awarding the contract. On reviewing them, we found several had incorrect dates for the date the contract was awarded. Shared Services is rectifying these errors. For two contracts in our sample, Shared Services published VEATs within 30-days of letting the contract, although this is not a requirement for VEATs which are normally published in advance of letting a contract.

2.31 Shared Services told us that its staff have been stretched and needed to focus on the priority of securing PPE for frontline staff. Shared Services told us it was therefore not able to prioritise publishing contract award notices. Shared Services also told us that publication of contract award notices was delayed for some orders because of difficulties getting suppliers to register on Sell2Wales.

¹⁴ This was a Voluntary Ex-Ante Transparency Notice (VEAT), which is used to give advance notice of the intention to let a contract. However, the VEAT in this case was published after the contract was let.

2.32 There has been regular reporting and scrutiny of COVID-19 expenditure within Shared Services' governance framework. Shared Services published the Internal Audit report on its website as part of audit committee papers. However, in our view it could build public trust in the procurement process in Wales by making the details of its contracts for PPE easy to access. We think there is merit in maximum transparency and collating information that is not commercially confidential into a single place. It would be very difficult for the public or those interested to get an overview of PPE contracts from the Sell2Wales website without already having in-depth knowledge.

Ethical risks

2.33 All public bodies are expected to observe Welsh Government guidance on ethical supply chains in procurement. The guidance includes reference to ensuring that supply chains do not involve modern human slavery. No change was made to this guidance during the pandemic. The Welsh Government told us that the expectation remained, while recognising that the context of a pandemic may limit what was practically possible.

2.34 The WLGA's notes of the meetings with Welsh Government and Shared Services show that on multiple occasions, local government representatives raised concerns and queries about how to manage the risks of there being slavery and unethical employment practices in the manufacturing of PPE for Wales.

2.35 In our review of Shared Services documentation for PPE to the NHS, we saw no specific references to ethical employment practices in the consideration of risks. The Internal Audit review of Shared Services' financial governance arrangements (**paragraph 2.18**) considered ethical supply. It found that 'there were no issues/ concerns identified with the companies at the time of purchasing, but due to the urgency of the pandemic and the need to secure equipment; this was not a primary consideration when determining which supplier to use'.

The Welsh Government expects to spend over £300 million on PPE for health and social care in 2020-21

2.36 Normally, NHS Wales would expect to spend around £8 million a year on PPE. We do not have figures for social care as much of the spend would have been by private care homes. The arrangements for funding PPE expenditure, especially in social care, have changed during the pandemic (**Box 1**).

Box 1: arrangements for funding PPE

The Welsh Government currently funds the provision of COVID-related PPE required by national guidance for healthcare and social care settings. This commitment extends to all secondary care and primary care settings including GP surgeries, dentists, optometrists and pharmacies. NHS bodies continue to fund their 'business-as-usual' PPE requirements on the basis that these are broadly in line with previous expenditure.

Initially, Shared Services would only supply social care for staff working with suspected or confirmed cases of COVID-19. Local authorities could claim the additional costs of PPE back from the Welsh Government through the Hardship Fund, set up to support local government during the COVID-19 pandemic. Since mid-April 2020, Shared Services has increasingly been meeting the needs of social care (residential care and domiciliary care) in both the public and independent sectors. Shared Services agreed a service level agreement with the WLGA, which runs from September 2020 to August 2021.

- 2.37 Shared Services expects to spend an additional £286 million on PPE, primarily for health and social care, in 2020-21. Shared Services placed orders of PPE with 18 suppliers in 2019. During the period March 2020 to February 2021, Shared Services has bought PPE from 67 suppliers, of which 51 are new suppliers. The £286 million projected spend on PPE by Shared Services, which is funded by the Welsh Government, includes:
- £186 million for PPE distributed to health and social care bodies; and
 - £99 million for PPE which is held in stock or expected for delivery by the end of March 2021.
- 2.38 At the end of January 2021, Shared Services was expecting to spend an additional £7.8 million on COVID-related operational expenditure in the 2020-21 financial year, with £5.6 million (72%) of this related to PPE. **Exhibit 12** shows that almost £3.2 million of the additional PPE-related spend is on staff costs, and £1.6 million is on transportation costs.

Exhibit 12: forecast additional PPE-related operational costs being incurred by Shared Services in 2020-21

	£ million
Staff costs	3.2
Transportation costs	1.6
Storage and security costs	0.6
Other PPE related costs	0.2
Total	5.6

Source: Shared Services

- 2.39 The Welsh Government agreed initially to fund local government expenditure on PPE as part of the wider Hardship Fund, set up to support local government through the pandemic. It is difficult to identify exactly how much PPE the Welsh Government has funded through this mechanism. The Welsh Government has provided data for Hardship Fund claims submitted up to October 2020.
- 2.40 Councils have received around £10 million for PPE claims although that may include some non-PPE items such as cleaning product, and around £0.5 million for associated costs such as transporting and storing PPE. The Welsh Government has also provided around £39 million¹⁵ to cover the general increased costs of social care for providers, including the costs of PPE. The Welsh Government is unable to separate out the PPE elements of the general cost pressure expenditure.
- 2.41 Combining the Shared Services spending on PPE for health and care, operational costs and the funding for social care through the Hardship Fund takes the total funded by Welsh Government to over £300 million. We estimate that the Welsh Government has received around £880 million so far through the Barnett formula due to spending on PPE in England, although the Welsh Government is yet to confirm the final figure with HM Treasury.
- 2.42 In addition to the spend on PPE for Wales set out above, as of the end of January 2021 Shared Services had spent £37.5 million on PPE procured on behalf of other parts of the UK (**Exhibit 13**). Shared Services recoup the expenditure by invoicing the relevant administration.

¹⁵ This is in addition to other Hardship Fund support for social care, such as funding additional staff costs.

Exhibit 13: procurement of PPE on behalf of other UK nations for which expenditure is recouped, to the end of January 2021

	£ million
England	28.3
Scotland	4.8
Northern Ireland	4.4
Total	37.5

Note: this expenditure is separate from mutual aid that was provided on request to other UK nations to meet urgent requirements (**paragraph 1.29**).

Source: Shared Services

The cost of PPE items has been significantly higher than before the pandemic but has fallen since the first wave

- 2.43 Intense global competition for scarce PPE resources drove up prices significantly, to a peak in April 2020. As the market adjusted, the prices paid by Shared Services fell over time. Procurement Services have shared an analysis of prices they paid for Type IIR masks, FFP3 respirators and nitrile gloves at the start of the pandemic and how they fell over time.
- 2.44 **Exhibit 14** shows how the unit cost of Type IIR masks, FFP3 respirators, nitrile gloves and fluid-resistant gowns rose sharply at the beginning of the pandemic before falling back to more normal levels towards the end of 2020. The largest increase was for gloves, which cost 800% of the average pre-pandemic price at the peak. Generally, across the period of the pandemic, Shared Services has procured higher volumes of PPE items at the lower prices. In the case of Type IIR masks, Shared Services' most recent contracts are for a cheaper unit price than before the pandemic.

Exhibit 14: examples of unit costs paid by Shared Services for Type IIR masks, FFP3 respirators, nitrile gloves and fluid-resistant gowns in November 2019 and during the pandemic in 2020

Type of PPE	Date	Unit price, £ ¹	Volume purchased (for orders during the pandemic) ²
Type IIR masks	Nov 2019	Range: 0.14 – 0.24 Average: 0.24	-
	Apr 2020	0.73	1,200,000
	Apr 2020	0.60	750,000
	Apr 2020	0.47	40,000,000
	Apr 2020	0.40	44,000,000
	May 2020	0.35	65,000,000
	June 2020	0.20	65,000,000
	Oct 2020	0.05	76,000,000
FFP3 respirators	Nov 2019	Range: 2.42 – 5.38 Average: 4.80	-
	Apr 2020	6.49	500,000
	June 2020	4.76	1,800,000
	Oct 2020	5.50	2,000,000
Nitrile gloves	Nov 2019	Range: 0.02 – 0.19 Average: 0.03	-
	Apr 2020	0.25	100,000,000
	Apr 2020	0.15	10,000,000
	May 2020	0.135	144,000,000
	Oct 2020	0.095	100,000,000
	Nov 2020	0.08	182,000,000

Type of PPE	Date	Unit price, £ ¹	Volume purchased (for orders during the pandemic) ²
Fluid-resistant gowns	Nov 2019	Range: 0.42 – 2.23 Average: 1.41	-
	Apr 2020	4.50	400,000
	May 2020	2.50	3,000,000

Notes:

- 1 Pre-pandemic prices are a weighted average of multiple different types of products which fall under the category. For example, there were 17 different lines under 'nitrile gloves' in November 2019. It is likely that the mix of products purchased during the pandemic differs from the position pre-pandemic.
- 2 The volume of items procured may not reconcile to the data on stocks and issues because some items were due to be delivered in batches, with some batches yet to be received. Also, for some orders, Shared Services was procuring additional items for other UK governments.
- 3 The unit prices and volumes of nitrile gloves are per individual glove.

Source: Shared Services

2.45 There has been significant media attention on the fees associated with intermediaries and agents involved in the procurement of PPE in England. We understand that where Shared Services engaged with agents, the agent's fee was absorbed into the unit price for the items, under an arrangement between the agent and the manufacturer. As such Shared Services does not know how much profit was made by the agent. In one case, the fees for the agents were capped at a specific percentage of the unit price. These fees covered overheads, administration, staffing costs, land transport, due diligence checks, in-country inspections, escrow account fees and profit.

There are some key decisions to make as part of the future procurement strategy for PPE, including on the involvement of domestic manufacturers

- 2.46 Shared Services' Winter Plan for PPE ran to the end of March 2021. There are some significant issues for the Welsh Government to consider for future procurement, including the size and nature of any future stockpile and the involvement of Welsh manufacturers. Shared Services is working with the Welsh Government to extend the key principles of the Winter PPE Plan (**paragraph 1.36**) into 2021-22. An interim position is being developed which is likely to reduce the 24-week target stock holding for most PPE items to reflect the reducing risk from the end of the EU transition period. A longer-term strategic plan will be developed during summer 2021.
- 2.47 Of the 67 suppliers that we referred to in **paragraph 2.37**, 13 were Welsh manufacturers and there were also several Welsh-based distributors involved in securing PPE. Other Welsh manufacturers have supplied local bodies with donations of PPE, for example of hand sanitiser and visors.
- 2.48 Welsh Government officials involved in the CERET worked closely with manufacturers to help them build capacity and get certification for some of the more complex PPE items. However, the time taken in preparations meant that the potential suppliers could not capitalise on relatively high prices in spring and summer 2020 when Shared Services was ramping up orders for its Winter Plan, and when the Welsh suppliers would have been reasonably price-competitive. In its report, the NAO highlighted the challenge of developing the domestic PPE market given the large amount of PPE stockpiled in England, which limits the potential size of the market for some items.
- 2.49 The Senedd Health, Social Care and Sport Committee's report encouraged the Welsh Government to consider the options for supporting local businesses that wish to continue making PPE. The Welsh Government is re-shaping its overall approach to procurement, with a view to having a greater focus on the local economic benefits and the foundational economy. In our view, the Welsh Government now needs to give a clear steer to public services and manufacturers as to its intentions for the domestic PPE market.

- 2.50 Under the normal approach to procurement, public services can compare the merits of different bidders using a range of criteria to demonstrate 'value' in the round. The more expensive option may offer additional benefits in terms of innovation or and wider policy goals, such as sustainable development in line with the Well-being of Future Generations (Wales) Act 2015. The issues highlighted in **paragraphs 2.33 to 2.35** around ethical supply chains are also relevant in this context.
- 2.51 There are also some decisions to make about the size and nature of the stockpile that will be held in case of a future pandemic. The current goal of a 24-week buffer is significantly larger than the stockpile previously held for a flu pandemic. Holding a stockpile involves costs in warehousing, staff to manage the stock and possible waste as some items may go past their useable date. If there is to be a significant stockpile, there will be questions to resolve about the timing of procurement and whether it can be built up when prices are back to normal rather than at a time of still high international demand.



Appendices

- 1 Audit approach and methods**
- 2 Organisations and groups involved in the procurement and supply of PPE**
- 3 Shared Services PPE stocks during the pandemic**

1 Audit approach and methods

Audit approach

The scope of our work took in the procurement and supply of PPE for all public services. However, in practice, our primary focus was on the NHS and social care and the national procurement led by the Welsh Government and NHS Wales Shared Services Partnership (Shared Services). While recognising that there has been local procurement and distribution of PPE, this was not a significant focus of our work.

To inform our work, we reviewed evidence submitted to the Senedd Health, Social Care and Sport Committee in spring/summer 2020. The Committee covered PPE in its July 2020 report, [Inquiry into the impact of the Covid-19 outbreak, and its management, on health and social care in Wales: Report 1](#).

We also reviewed two reports by the NAO that covered the procurement and supply of PPE in England.

- [Investigation into government procurement during the COVID-19 pandemic, November 2020](#),
- [The supply of personal protective equipment \(PPE\) during the COVID-19 pandemic, November 2020](#).

Building on these reports, the UK Parliament's Public Accounts Committee published its own report in February 2021, [COVID-19: Government procurement and supply of Personal Protective Equipment](#).

We have explored similar issues in our work. We have discussed PPE procurement and supply with the NAO and with counterparts at Audit Scotland and the Northern Ireland Audit Office.

Audit methods

We used a range of methods:

- **Document review:** we reviewed pre-pandemic planning documents, strategic plans, papers considered by NHS boards and committees, guidance documents including on PPE use in different settings and on procurement, and relevant Internal Audit reports including:
 - in October 2020, the NHS Wales Audit and Assurance Services (part of Shared Services) reported on Shared Services' financial governance arrangements during the COVID-19 pandemic. The review covered COVID-19 related expenditure, including but not limited to PPE, between March and July 2020. Part 2 of our report covers some similar issues for PPE specifically.
 - in December 2020, the Welsh Government's Internal Audit Services reported on Welsh Government strategy and governance arrangements for PPE. The auditors recorded a 'reasonable assurance' rating, noting their view that the arrangements were operating effectively for oversight of PPE. The report recommended that officials conduct a 'lessons learned' exercise, collate a timeline of key events and make some minor administrative changes.
- **Semi-structured interviews:** we interviewed officials involved in the planning and procurement of PPE across Shared Services, the Welsh Government, and the Welsh Local Government Association.
- **Data analysis:** we reviewed available data on the distribution of PPE items in Wales, NHS Wales expenditure, the price of items of PPE and the levels of stock held and distributed. The more centralised approach to monitoring and reporting for the NHS means data on healthcare has been more readily available than data on social care.
- **Staff surveys:** we analysed survey data provided by bodies representing medical, and nursing staff (Royal College of Nursing and British Medical Association). As the participants were self-selecting, rather than a random sample, we cannot know how representative these experiences are of the whole NHS and social care workforce.
- **Procurement testing:** we reviewed a sample of 16 PPE-related contracts, checking for compliance against expected procedures and looking for broader consideration of risks to value for money. We selected a mix of larger value and smaller value contracts that were not part of the normal supply chain (**Exhibit 15**). Our sample covered 71% of the value of these contracts let at the end of November 2020, which included purchases on behalf of other UK countries.

- **Site visit:** in November 2020, we visited the warehouse where a significant proportion of the PPE buffer stock is held. We carried out a health and safety risk assessment in advance. Audit Wales and NHS Wales staff wore face coverings and maintained social distancing.
- **Wider engagement:** we wrote to organisations that supplied evidence related to PPE as part of the Senedd Health, Social Care and Sport Committee inquiry in spring/summer 2020. We invited them to share any new evidence or issues of concern. We wrote to 21 organisations and received 6 responses. In some cases, we followed up those responses through further dialogue.

Exhibit 15: details of contracts covered in our procurement sample testing

Sample number	PPE item procured	Anticipated contract value at end of November 2020
1	Type IIR masks	£23,400,000
2	Type IIR masks	£21,150,000
3	Nitrile gloves	£19,440,000
4	Type IIR masks	£18,000,000
5	Nitrile gloves	£14,497,960
6	Type IIR masks	£14,483,220
7	Type IIR masks	£12,432,205
8	FFP3 respirators	£11,143,934
9	FFP3 respirators	£9,500,000
10	FFP3 respirators	£12,100,000
11	Fluid-resistant gowns	£6,019,355
12	Fluid-resistant gowns	£1,720,000
13	Fluid-resistant gowns	£1,008,000
14	Type IIR masks	£890,000
15	Air freight charges	£655,000
16	Air freight charges	£248,259

2 Organisations and groups involved in the procurement and supply of PPE

Beyond the Welsh Government as a whole, we refer in this report to various organisations or groups involved in the national procurement and supply of PPE. **Exhibit 16** provides an overview but is not exhaustive. Other organisations or groups have had input at different times for specific purposes.

Exhibit 16: organisations and other key groups involved in the national procurement and supply of PPE for health and social care

Organisation	Description
NHS Wales Shared Services Partnership (Shared Services)	<p>Shared Services provides professional, technical and administrative services on behalf of other NHS bodies, which include procurement services and the Surgical Materials Testing Laboratory.</p> <p>The Shared Services Partnership Committee sets the Shared Services policy for NHS Wales, monitors the performance and supports the strategic development of Shared Services and its services.</p>
Public Health Wales	<p>Public Health Wales NHS Trust aims to protect and improve health and well-being and reduce health inequalities. It has worked alongside the public health agencies of the other UK nations to develop and issue infection prevention and control guidance, which includes the use of PPE.</p>
Velindre University NHS Trust	<p>Shared Services is hosted by Velindre University NHS Trust via a formal agreement, signed by each statutory organisation in NHS Wales. As a hosted organisation, Shared Services operates under the legal framework of Velindre University NHS Trust.</p>
Finance Governance Group (FGG)	<p>Shared Services set up the FGG to scrutinise and manage risks related to COVID-19 procurement.</p> <p>The FGG involves different parts of Shared Services along with members of the Velindre University NHS Trust Board. Shared Services representatives are from procurement, audit and assurance, finance and corporate services, legal and risk services and counter fraud.</p>

Organisation	Description
Surgical Materials Testing Laboratory (SMTL)	The Surgical Materials Testing Laboratory is part of Shared Services and provides testing and technical services in support of NHS Wales procurement.
Life Sciences Hub Wales (LSHW)	An organisation formed in 2014 that brings together members in the Life Sciences sector to collaborate on solutions. A framework document between the Welsh Government and LSHW sets out the governance and accountability arrangements, and LSHW receive an annual remit from the Welsh Government.
National Procurement Service (NPS)	Part of the Welsh Government, promoting Welsh public sector procurement collaboration and managing a number of collaborative procurement frameworks for a range of goods and services.
Critical Equipment Requirement Engineering Team (CERET)	Established by the Welsh Government in March 2020, bringing together colleagues from across Welsh Government, the NHS, SMTL, LSHW and Industry Wales to support the procurement of PPE for healthcare settings.
Welsh Local Government Association (WLGA)	The WLGA coordinated social care responses and procurement between the 22 local authorities and liaised with Shared Services, the National Procurement Service and the wider Welsh Government.

3 Shared Services PPE stocks during the pandemic

Exhibit 17: volume and number of weeks of items held in stock at 7 February 2021, highest and lowest points

PPE item		Weeks of stock at 7 February 2021	Highest number of weeks	Lowest number of weeks
Aprons	Weeks	37.8	47.8	2.4
	Date		30 Nov 2020	5 May 2020
Body bags	Weeks	384.8	5,733.8	2.2
	Date		30 Jul 2020	14 Apr 2020
Eye protector	Weeks	601.9	205.557.3	0.1
	Date		9 Jul 2020	11 May 2020
Face visor	Weeks	19.3	55.6	0.1
	Date		7 Sept 2020	8 Apr 2020
FFP2 respirator	Weeks	97.0	1,496.6	12.3
	Date		12 May 2020	27 Jul 2020
FFP3 respirator	Weeks	9.3	32.9	1.4
	Date		9 Nov 2020	2 Apr 2020
Fit test kits & spares	Weeks	667.6	2,729.4	0.2
	Date		4 Jan 2021	6 Apr 2020
Gloves	Weeks	3.7	7.6	1.3
	Date		7 Sept 2020	7 Dec 2020
Gloves (cuffed)	Weeks	26.8	71.5	0.8
	Date		18 Jan 2021	7 Apr 2020
Gowns (fluid-resistant)	Weeks	116.3	145.9	0.2
	Date		17 Aug 2020	25 Apr 2020

PPE item		Weeks of stock at 7 February 2021	Highest number of weeks	Lowest number of weeks
Gowns (other)	Weeks	3.3	44.8	0.6
	Date		22 Jun 2020	26 Apr 2020
Hand sanitiser	Weeks	79.1	127.1	1.6
	Date		18 Jan 2021	15 Apr 2020
Hand wipes	Weeks	11.4	83.2	5.7
	Date		4 Jan 2021	31 Aug 2020
Type I & type II masks	Weeks	85.3	147.2	0.3
	Date		30 Nov 2020	7 Apr 2020
Type IIR masks	Weeks	50.5	116.0	0.2
	Date		18 Jan 2021	7 Apr 2020
Respirator hoods	Weeks	Analysis not possible due to limited issuing		
	Date			
Respirator filters	Weeks	Analysis not possible due to limited issuing		
	Date			

Note: one unit of gloves are reported as pack, which vary in size, and hand sanitiser as a bottle, varying in volume.

Source: Audit Wales analysis of Shared Services data

Exhibit 18: total units of PPE issued up to 7 February 2021

PPE Item	Units
Aprons	113,770,625
Body bags	11,316
Eye protector	1,627,000
Face visor	5,167,736
FFP2 respirator	126,036
FFP3 respirator	2,823,373
Fit test kits and spares	5,965
Gloves	337,469,340
Gloves (cuffed)	1,306,900
Gowns (fluid-resistant)	2,000,584
Gowns (other)	643,990
Hand sanitiser	391,514
Hand wipes	20,135,400
Type I & type II masks	1,174,150
Type IIR masks	143,238,551
Respirator hoods	102
Respirator filters	22,176
Total	629,914,758

Note: one unit of gloves are reported as pack, which vary in size, and hand sanitiser as a bottle, varying in volume.

Source: Welsh Government, [Weekly Personal Protective Equipment issues: up to 7 February 2021](#), released 11 February 2021



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